Digital Learning Environment for Design - www.dsource.in

Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects
- 5. Videos
- 6. Contact Details



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Aims of Systems Design Project

Aim:

The aim of this project is to understand and design for problems from socio-economic-cultural-political-technology-sustainability perspective that are complex, uncertain, interconnected and form a system within defined boundaries

Content:

- . Design of system level solutions so that design can be thought of as interrelated, circular. Holistic and dynamic.
- . Understanding, strategizing, conceptualising and designing for complex systems.
- . Design solutions that are suitable for transportation, education, publishing, retailing, etc.

Team Work:

It involves the students having different skills and strengths working as a team solving a relatively complex design problem.

You can form teams with max 3 students collaborating together. Make sure the teams formed are based on having different skill-sets and not necessarily based on friendship.

The teams will collaborate with feedback from faculty mentors for inputs and suggestions.

We'll meet twice a week on Monday morning/afternoons (for presentation + report submission + Feedback) and Thursday morning/afternoons (for discussions) and if it's an 'emergency', on other days.

So basically, you need to take responsibility for your team, be professional and make sure you put in the efforts and commitment.

The students will solve a system level problem and will have to come out with an appropriate solution using product/s or service/s by the end of the project.

What will you learn?:

- . Adopt a design process and methodology for designing complex systems level problems
- . Conduct independent research, understand the problem space, synthesize, map the relationships, be able to think critically and find appropriate design solutions
- . Able to work in teams and collaborate to solve complex problems
- . Confidence in being creative and innovative and convert ideas into workable prototypes for large scale issues and problems spanning different fields.

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References:

- John Thackara; In the Bubble: Designing in a Complex World, The MIT Press, 2005
- Bruce Hanington, Bella Martin, Universal Methods of Design: 100 Ways to Research Complex Problems, Develop Innovative Ideas, and Design Effective Solutions, Rockport Publishers, 2012
- Donald A. Norman, Living with Complexity, MIT Press, 2010
- Jeffrey Whitten and Lonnie Bentley, Systems Analysis and Design Methods, McGraw-Hill/Irwin, 2005
- Gerald M. Weinberg, Daniela Weinberg, General Principles of Systems Design, Dorset House,1988

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Course Schedule and Grading

Presentation/meeting schedule:

Every Monday morning/afternoons (for presentation + report submission + Feedback) and Every Thursday morning/afternoons (for discussions) and if it's an 'emergency', on other days. Final Presentation on Week 5

Grading: Total Credits for DEP 302 - 6 credits

based on your presentation + report submissions every week and the Final Presentation and the final report submissions

Week 1: Presentation Slides + Report Submission (15%)

Week 2: Presentation Slides + Report Submission (15%)

Week 3: Presentation Slides + Report Submission (15%)

Week 4: Presentation Slides + Report Submission (15%)

Week 5: Final Presentation Slides + Final Presentation Video + Final Report Submission (40%)

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, subtitles and then running text/images
- g. Have a summary/content slide at the beginning
- h. Make good use of appropriate media in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas (Preparing a script is a good idea reading text from the slide should be avoided)

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Problem Statement

Dates and submissions:

Final Submission date: Week 5

Task:

You need to choose a complex problem area to solve.

You could select from the below mentioned topics or choose your own topic

The aim of this Systems Design Project is to research, understand, visualize, synthesize and design for problems from socio-economic-cultural-political-technology-sustainability perspectives that are complex, uncertain, interconnected and form a system within defined boundaries.

Suggestions for Design Process:

- You could follow this as a process for design: a combination of 'Systems Thinking' and 'Design Thinking/Process' methods
- You could use 'Mapping' as a tool for understanding the relationships and the interconnectedness between the different elements, components, issues, behaviors, environments. Ex Giga Maps, Cluster/Nodal Mapping, Circular Mapping, etc.
- Framing your problem Space:
- a. Identify the system boundary (what you include inside the system and what you keep in the environment)
- b. Identifying the various perspectives (individuals, user groups, stakeholders, behaviours, environment, culture, etc).
- $c.\ Identifying\ the\ various\ parts (entities)\ and\ subparts\ (elements/module/attributes).$
- d. Identifying how the parts connect to the whole
- e. Identifying the relationships that exist and binds the parts together
- f. How is the system revealed at the holistic level by interconnecting the parts

Suggested Problem Areas to Solve:

- Alternate Urban Transportation System
- Sharable Cycle System
- Household Waste management System
- Mobility System for People with Disability
- Rainwater harvesting systems
- Sustainable Home Systems
- Signage and Wayfinding Systems for India
- Green and Smart Home Systems

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- Multi-lingual Typography system for India
- Sharable Cycle System
- Maternity Care System
- Mental Health Care System
- Cold-Chain Systems
- Medicine tracking and Distribution System
- Flexible Layout System for Bilingual Magazine
- Grid System for pattern Making

Grading:

based on your presentation + report submissions every week and the Final Presentation and the final report submissions

Week 1: Presentation Slides + Report Submission (15%)

Week 2: Presentation Slides + Report Submission (15%)

Week 3: Presentation Slides + Report Submission (15%)

Week 4: Presentation Slides + Report Submission (15%)

Week 5: Final Presentation Slides + Final Presentation Video + Final Report Submission (40%)

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Source:

https://www.dsource.in/course/systems-design-project/projects

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects
 - 4a. Navaaz EV Charging Solution
 - 4b. The Indian Medicine System
 - 4c. The BudBud Foundation
 - 4d. Indian Education System
 - 4e. Sustainable Housing Systems
 - 4f. Cultural Identity of Kerala
- 5. Videos
- 6. Contact Details

Projects



Navaaz EV Charging Solution



The Indian Medicine System



The BudBud Foundation



Indian Education System



Sustainable Housing Systems



Cultural Identity of Kerala

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Source:

https://www.dsource.in/course/systems-design-project/projects/navaaz-ev-charging-solution

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects
 - 4a. Navaaz EV Charging Solution
 - 4a.1. Week One Need Finding and understanding the Problem
 - 4a.2. Week Two: Identify your Problem Area and Focus on it
 - 4a.3. Week Three: Ideation Focus on Problem Area

4a.4, 4a.5

4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

Navaaz EV Charging Solution



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus on it



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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4a.4, 4a.5

4b, 4c, 4d, 4e, 4f

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Week One - Need Finding and understanding the Problem

Project Report

• Mood Indigo (Problem Identification)...... (3760 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage – Understanding the Problem Presentation

Grading Points: 15%

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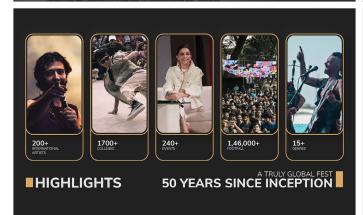
Presentation

Presentation

• Mood Indigo (Problem Identification)..... (88620 kb)









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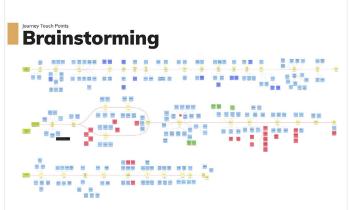
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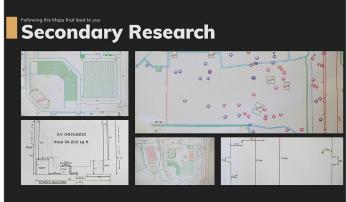
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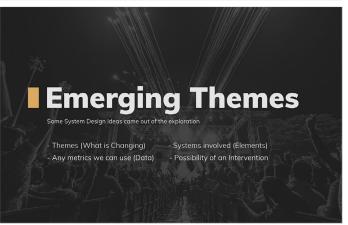












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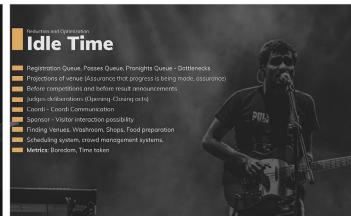
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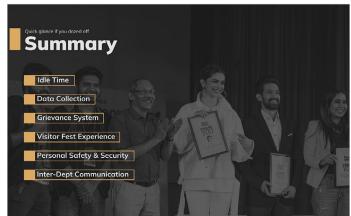
4a.1. Week One - Need Finding and understanding the Problem
4a.1.1. Presentation

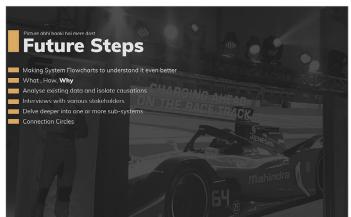
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4a.4, 4a.5

4b, 4c, 4d, 4e, 4f

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Week Two: Identify your Problem Area and Focus on it

Project Report

• Mood Indigo (Problem Identification)...... (941.98 kb)



Presentation

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage - Understanding the Problem Presentation

Dates:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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4a.4, 4a.5

4b, 4c, 4d, 4e, 4f

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Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

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4a.4, 4a.5

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Presentation

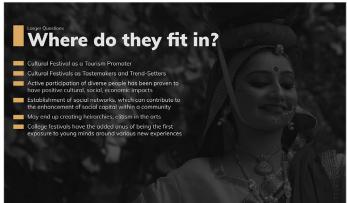
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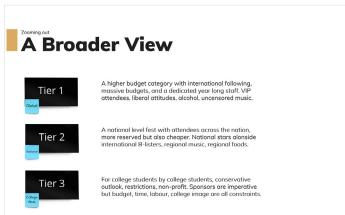
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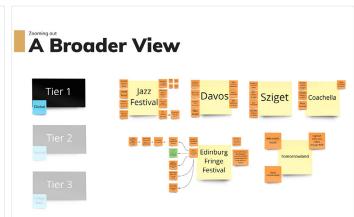
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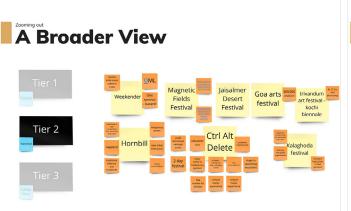
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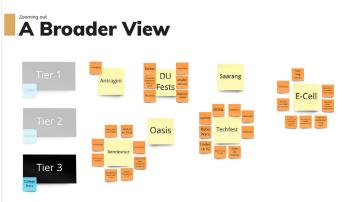
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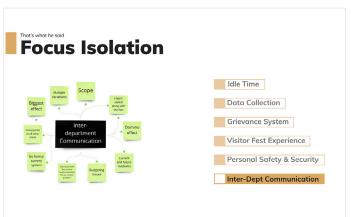
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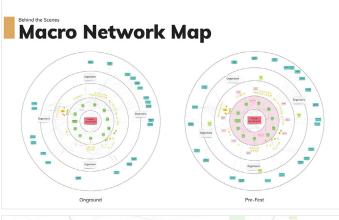
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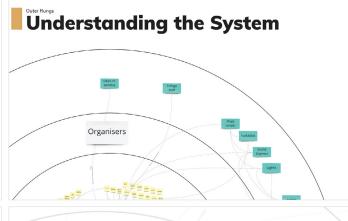
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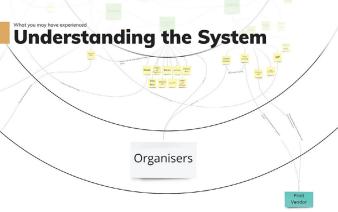
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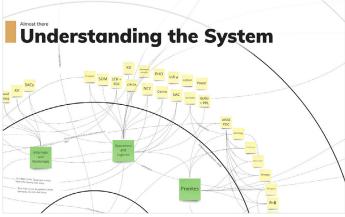












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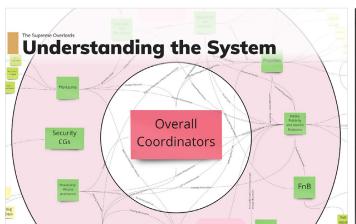
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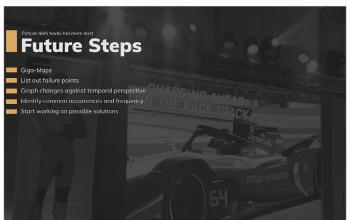
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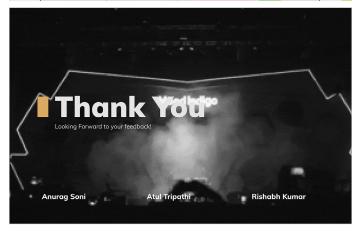
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4a.4, 4a.5

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4a.3.1. Presentation

4a.4, 4a.5

4b, 4c, 4d, 4e, 4f

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- 6. Contact Details

Week Three: Ideation - Focus on Problem Area

Project Report

• Mood Indigo (Problem Identification)..... (1290 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/navaaz-ev-charging-solution/week-three-ideation-focus-problem

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects
 - 4a. Navaaz EV Charging Solution
 - 4a.1. Week One Need Finding and understanding the Problem
 - 4a.2. Week Two: Identify your Problem Area and Focus on it
 - 4a.3. Week Three: Ideation Focus on Problem Area

4a.3.1. Presentation

4a.4, 4a.5 4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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 - 4a.3. Week Three: Ideation Focus on Problem Area

4a.3.1. Presentation

4a.4, 4a.5

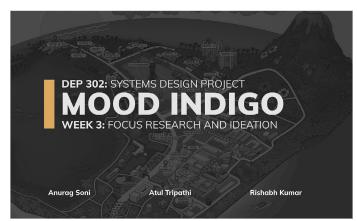
4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

Presentation

Presentation

• Mood Indigo (Problem Identification)...... (84550 kb)









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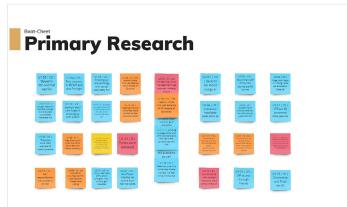
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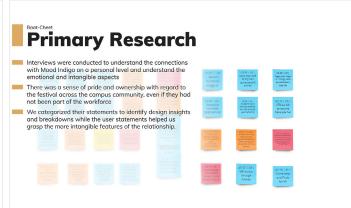
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 - 4a.3. Week Three: Ideation Focus on Problem Area
 4a.3.1. Presentation

4a.4, 4a.5

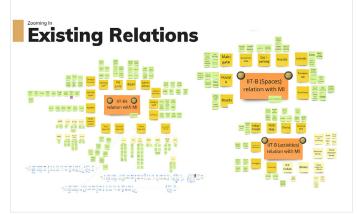
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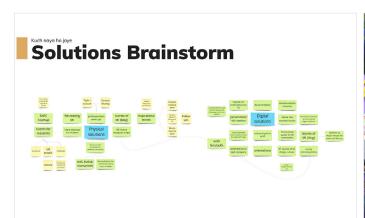
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4a.4, 4a.5

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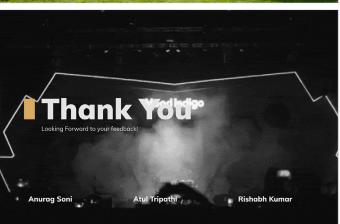












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Source:

https://www.dsource.in/course/systems-design-project/projects/navaaz-ev-charging-solution/week-four-focus-soft-prototyping

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects
 - 4a. Navaaz EV Charging Solution 4a.1. 4a.2
 - 4a.3. Week Three: Ideation Focus on Problem Area
 - 4a.4. Week Four: Focus on Soft Prototyping

4a.4.1. Presentation

4a.5. Week Five: Presentation on Final Design Solution

4b, 4c, 4d, 4e, 4f

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- 6. Contact Details

Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for

Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

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- a) Presentation Slides upload it on the google classroom Week 4
- b) Project Report upload it on the google classroom Week 4

Grading Points: 15%

Source:

https://www.dsource.in/course/systems-design-project/projects/navaaz-ev-charging-solution/weekfour-focus-soft-prototyping

- 1. Aims of Systems Design Project
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4a.4.1. Presentation

4a.5. Week Five: Presentation on Final Design Solution

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- 6. Contact Details

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Presentation

Presentation

• Mood Indigo (Problem Identification)...... (3390 kb)



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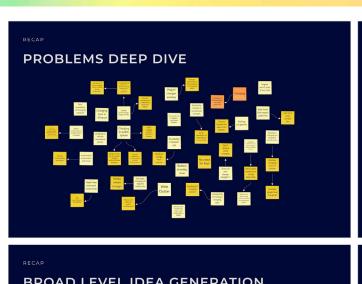
- 1. Aims of Systems Design Project
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Areas of Interest



Evaluation

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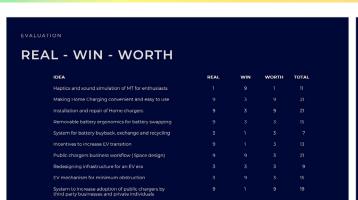
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4b, 4c, 4d, 4e, 4f

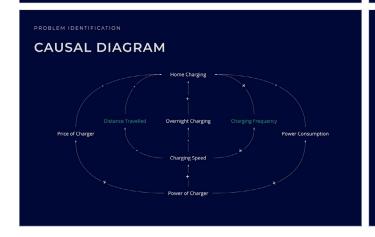
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Problem Identification

SCENARIOS Overcrowded parking lot with cable clutter Slums with milti storey houses Teenager that does chores for the family and attends classes Delivery-persons of supermarkets and restaurants Using of E2W for reaching the last mile from public transport hubs Middle class commuter who does spontaneous short trips People who carry heavy items on a two wheeler Online delivery services like Zomato that use E2W throught the day





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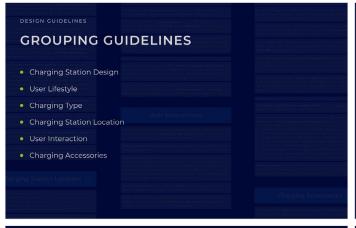
4a.4.1. Presentation

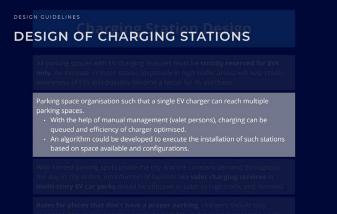
4a.5. Week Five: Presentation on Final Design Solution

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Systems Design Project

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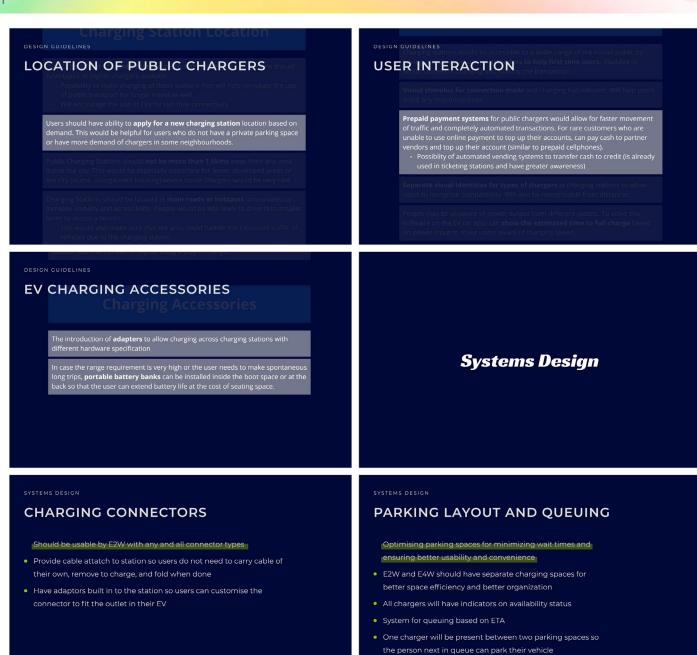
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 - 4a.1, 4a.2
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4a.4.1. Presentation

4a.5. Week Five: Presentation on Final Design Solution

- 5. Videos
- 6. Contact Details



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4a.4.1. Presentation

4a.5. Week Five: Presentation on Final Design Solution

4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

SYSTEMS DESIGN

PAYMENT SYSTEM

Creating futureproof, yet inclusive automation payment systems

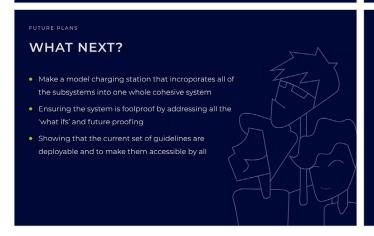
- Automated payment systems that work on prepaid credit like Fastag to streamline payment and allow for smart features such as algorithmic queuing and management
- Contingency payment options such as loans and availability of an attender to act as a transactor

SYSTEMS DESIG

SECURITY AND MALFUNCTIONS

Making the charger secure and contingency solutions in cases of charger malfunctions

- Clearly communicated and implemented standardized security measures to deliver peace of mind to the user
- · Adapters and accessories will have additional security standards
- Backup guidelines in account for malfunction of chargers to ensure fair treatment of pending queue jobs



feedback DIS

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Source:

https://www.dsource.in/course/systems-design-project/projects/navaaz-ev-charging-solution/week-five-presentation-final

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a. Navaaz EV Charging Solution 4a.1, 4a.2, 4a.3, 4a.4

4a.5. Week Five: Presentation on Final Design Solution

4a.5.1. Project Synopsis 4a.5.1. Navaaz EV Charging

Solution

4a.5.1. Video

4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

Week Five: Presentation on Final Design Solution

Project Report

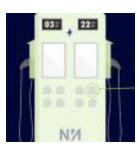
• Mood Indigo (Problem Identification)..... (6180 kb)



Project Synopsis



Navaaz EV Charging Solution



Video

Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 5 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

Presentation:

. Each group has to make a video of their presentations a of the 5 weeks work – in about 12 mins. duration and

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4a.5.1. Navaaz EV Charging
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upload this in google classroom

- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features
- I. Final Scenario
- m. Form and Interface Development or detailing

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- 4. Projects

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4a.5. Week Five: Presentation on Final Design Solution

4a.5.1. Project Synopsis4a.5.1. Navaaz EV ChargingSolution

4a.5.1. Video

4b, 4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

- I. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e)It would be great if you can submit a copy of your MIRO board

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Source:

https://www.dsource.in/course/systems-design-project/projects/mood-indigo/week-five-presentation-final-design-solution-0

- 1. Aims of Systems Design Project
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4a.1, 4a.2, 4a.3, 4a.4
4a.5. Week Five: Presentation on
Final Design Solution
4a.5.1. Project Synopsis
4a.5.1. Navaaz EV Charging
Solution
4a.5.1. Video
4b, 4c, 4d, 4e, 4f
```

- 5. Videos
- 6. Contact Details

Project Synopsis

This is an academic project by Atish Waghwase, Vanshaj Kumar, and Zaid Khuram, students of IDC School of Design at IIT Bombay. The project began with an aim to study the electric vehicle ecosystem in India while also taking reference and understanding systems that have been implemented across the world.

With the help of primary research and extensive secondary research, the project focus was brought down to electric two wheelers in India. With two wheelers taking up 80% of the current automobile markets, along with the government expecting 80% of two wheeler sales to be electric by 2030, we felt it was a more realistic and grounded goal to achieve.

Continuing with further ideation and problem identification for this futuristic scenario, we came up with multiple subsystems that could be tackled within it. After evaluating our option, the project focus was further narrowed to the public charging ecosystem in India for electric vehicles, with extensive focus on electric two wheelers.

Through research and detailed review of the stakeholders in the system, the project had an outcome in the form of a business idea. 'Navaaz EV Charging Solutions' would be a business to business company that would help clients of all sizes set up charging stations at their locations. We also came up with an extensive set of guidelines for the work the company would do and execute.

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- 1. Aims of Systems Design Project
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- 3. Problem Statement
- 4. Projects

4a. Navaaz EV Charging Solution

4a.1, 4a.2, 4a.3, 4a.4

4a.5. Week Five: Presentation on

Final Design Solution

4a.5.1. Project Synopsis

4a.5.1. Navaaz EV Charging Solution

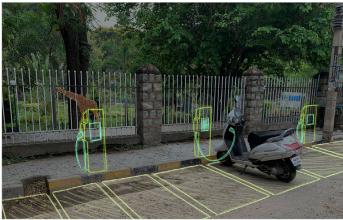
4a.5.1. Video

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- 5. Videos
- 6. Contact Details

Navaaz EV Charging Solution









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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

ЭУ

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/mood-indigo/week-five-presentation-final-design-solution-2

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a. Navaaz EV Charging Solution

4a.1, 4a.2, 4a.3, 4a.4

4a.5. Week Five: Presentation on

Final Design Solution

4a.5.1. Project Synopsis

4a.5.1. Navaaz EV Charging Solution

4a.5.1. Video

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- 5. Videos
- 6. Contact Details



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by

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- 2. Course Schedule and Grading
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4a. Navaaz EV Charging Solution 4a.1, 4a.2, 4a.3, 4a.4

4a.5. Week Five: Presentation on Final Design Solution 4a.5.1. Project Synopsis 4a.5.1. Navaaz EV Charging

Solution

4a.5.1. Video

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Video



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The Indian Medicine System



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus on it



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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Source:

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- 1. Aims of Systems Design Project
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4a. Navaaz EV Charging Solution 4b. The Indian Medicine System

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4b.1.1. Presentation

4b.2. Week Two: Identify your Problem Area and Focus on it

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- 5. Videos
- 6. Contact Details

Week One - Need Finding and understanding the Problem

Project Report

• The Indian Medicine System..... (1610 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage – Understanding the Problem Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback Submission: Slide presentation + Report submission (must for grading) Grading Points: 15%

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4b. The Indian Medicine System

4b.1. Week One - Need Finding and understanding the Problem

4b.1.1. Presentation

4b.2. Week Two: Identify your Problem Area and Focus on it

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Presentation

Presentation

• The Indian Medicine System..... (9290 kb)



Problem Area

Exploration

Contents

01 Problem Area Exploration

03 Brainstorm Consolidation

05 Setting Project Scope

06 Future Steps

04 Identifying System Boundaries

02 Brainstorming

Problem Area Exploration

Multilingual Typography for Messaging Signage & Wayfinding for Public Institutions Multilingual IITB Student Portals

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4b. The Indian Medicine System

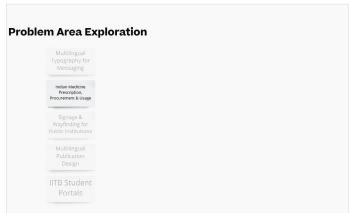
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4b.1.1. Presentation

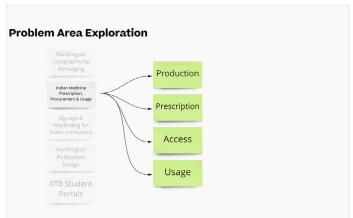
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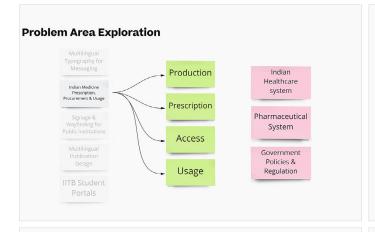
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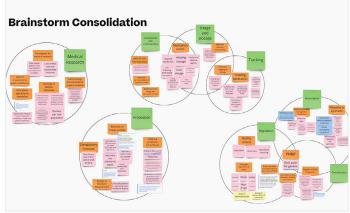




Brainstorming

& Consolidation





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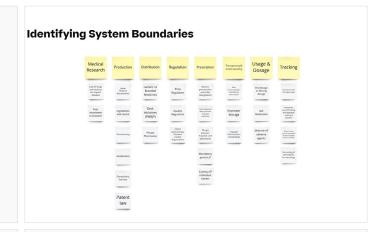
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Identifying

System Boundaries



Identifying System Boundaries



Identifying System Boundaries



Identifying System Boundaries



Identifying System Boundaries

Medical Research		Regulation		Usage & Dosage	Tracking
		Price Regulation			
		Quality Regulation	Improper Storage		
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	Patent				

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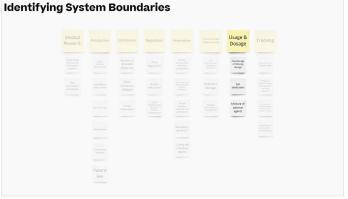
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SettingProject Scope

	ect Scope	•		
Medical Research	Production	Distribution	Regulation	
Prescription	Transparency & Understanding	Usage & Dosage	Tracking	
_	_	_		

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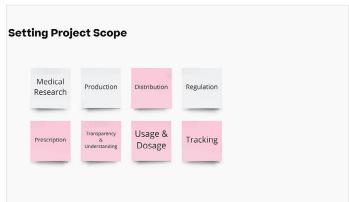
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Future Steps

Future Steps

WEEK 2

- 01 Identify Various Perspectives
- 02 Identify System Entities
- 03 Identifying how parts connect to a whole
- 04 Identify the relationships between entities

Future Steps

WEEK 2

- 01 Identify Various Perspectives
- 02 Identify System Entities
- 03 Identifying how parts connect to a whole
- 04 Identify the relationships between entities

WEEK 3

- 01 Map holistic system of interconnected entities
- 02 Leverage Points



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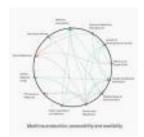
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Week Two: Identify your Problem Area and Focus on it

Project Report

• The Indian Medicine System..... (3120 kb)



Presentation

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage - Understanding the Problem Presentation

Dates:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

Source:

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07 Possible Opportunities

08 Future Steps

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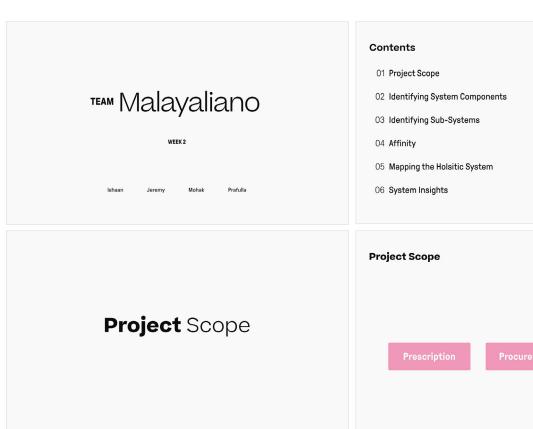
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Presentation

Presentation

• The Indian Medicine System..... (32640 kb)



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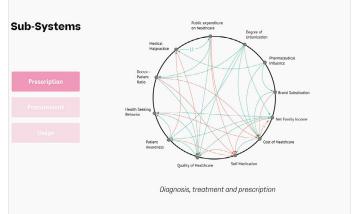
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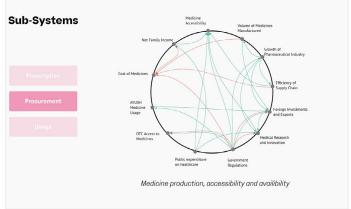


IdentifyingSystem Components

Identifying

Sub - Systems





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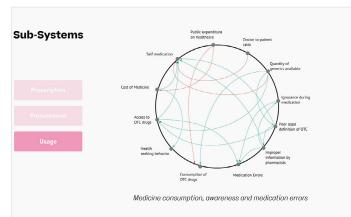
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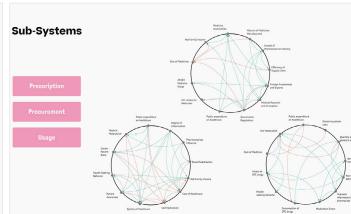
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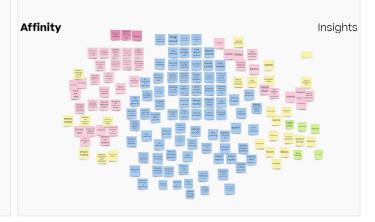
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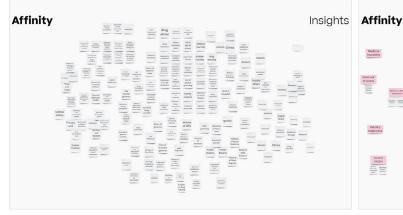
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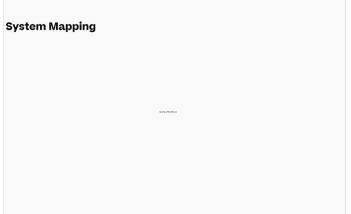
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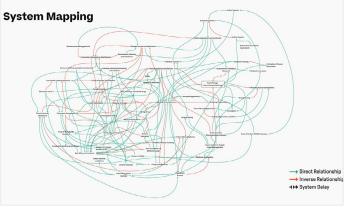


MappingHolistic System









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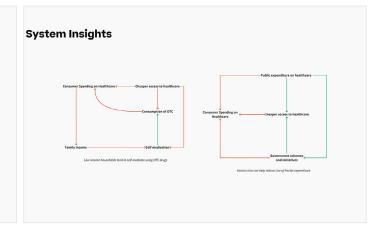
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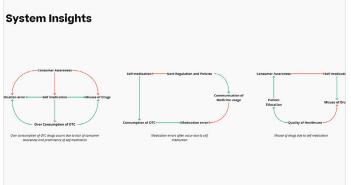
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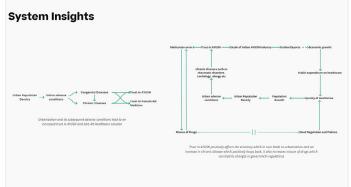
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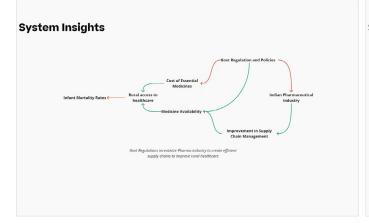
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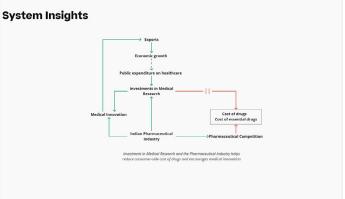
System Insights











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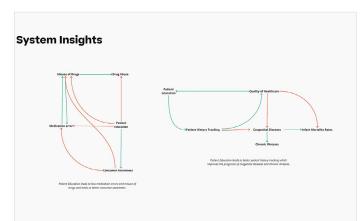
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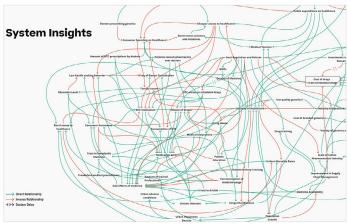
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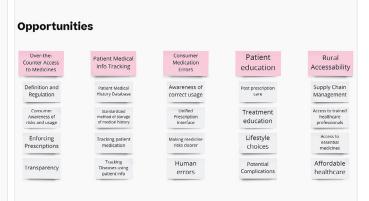
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Potential Oppurtunities



Future Steps

THIS WEEK

- O1 Finalize and Map Problem Area Further
- 02 Contextual Inquiry
- 03 Finalize a Problem Statement
- 04 Identify Possible Solutions

NEXT WEEK

01 Propose Final Solution



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4b.3.1. Presentation

4b.4. Week Four: Focus on Soft Prototyping

4b.5

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- 5. Videos
- 6. Contact Details

Week Three: Ideation - Focus on Problem Area

Project Report

• The Indian Medicine System..... (2960 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

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Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

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4b.1, 4b.2

4b.3. Week Three: Ideation - Focus

on Problem Area

4b.3.1. Presentation

4b.4. Week Four: Focus on Soft Prototyping

4b.5

4c, 4d, 4e, 4f

- 5. Videos
- 6. Contact Details

6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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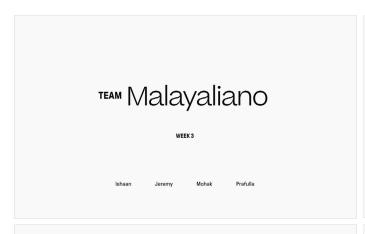
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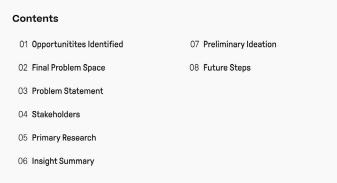
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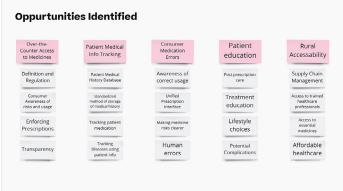
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• The Indian Medicine System..... (22700 kb)









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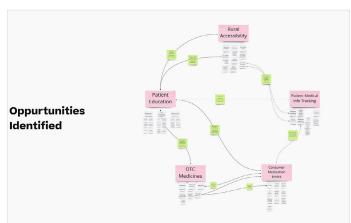
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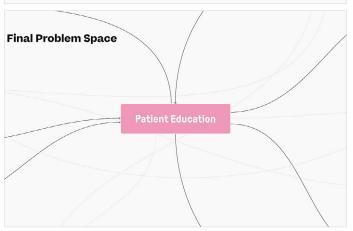
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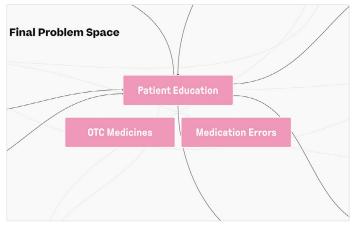
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Patient Education

Patient Effort

Communication

Insufficient Attention

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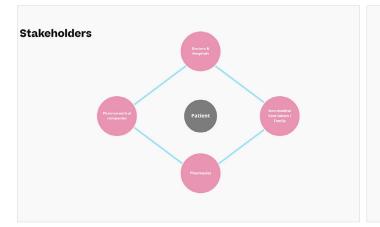
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Problem Statement

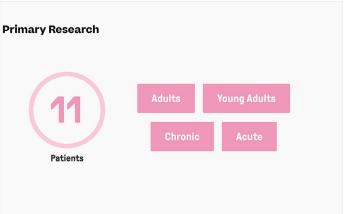
Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

IdentifyingStakeholders









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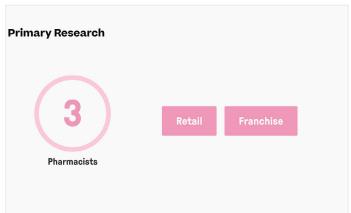
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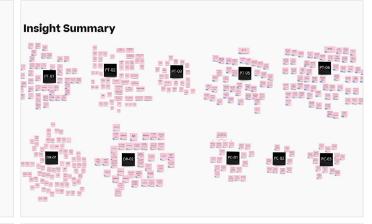
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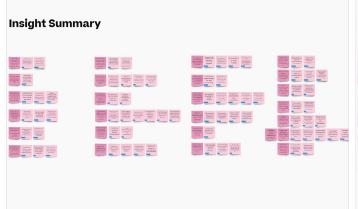
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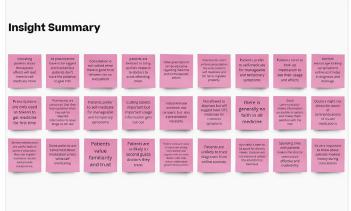












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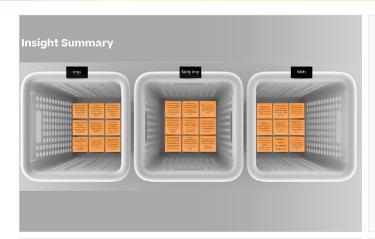
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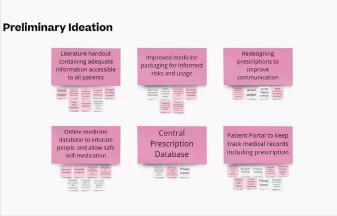
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Prelimnary Ideation



Future Steps

Future Steps

THIS WEEK

- 01 Finalise Idea
- 02 Detail Proposed Solution
- 03 Map System Connection
- 04 Design Assets

FINAL PRESENTATION

- 01 Evaluate Proposal
- 02 Map all possible connections
- 03 Identify Consequences
- 03 Address Consequences



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Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

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Presentation

Presentation

• The Indian Medicine System...... (17310 kb)



Problem Statement and Research

Contents

- 01 Problem Statement and Research
- 07 Evaluation Plan

- 02 Target Demographic
- 03 Personas
- 04 Ideation
- 05 Preliminary Evaluation
- 06 Design Solution

Problem Statement

Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

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Problem Statement

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Problem Statement

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Patient Condition
and Treatment

Problem Statement

Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

Research



Doctors



Pharmacists

Target Demographics

Target Demographics



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Target Demographics



- 01 Semi-Urban
- 02 Tier 2, Tier 3 Cities
- 03 Medium to Low Income
- 04 Limited Healthcare Infrastructure
- 05 Crowded Healthcare
- 6 Limited Education and Literacy

Personas





- 24, Male, Educated
- Unlikely to Self-Medicate
- Avid Smartphone User
- Trusts Doctors
- No Chronic Illnesses

02



- 78, Male, Literate
- Self-Medicates Often
- Uses a Feature Phone - Does Not Trust Doctors
- Chronic Diahetic

03

- 47, Female, Uneducated
- Unlikely to Self-Medicate - Smartphone User
- Trusts Doctors
- Diahetes and



- 35, Female, Educated
- Self-Medicates Smartphone User
- Somewhat Trusts Doc Has chronically ill family members

Personas



- 47, Female, Uneducated Unlikely to Self-Medicate
 - Smartphone User Trusts Doctors
 - Diahetes and

PRIMARY



Primary Persona



47, Female

- Paddy Farmer
- Hirebidanur
- Literate in Kannada
- Diabetes and Hypertension
- Cannot Self Medicate due to English Instructions
- **Emergent Smartphone User**
- Trusts her Doctor implicitly

Ideation

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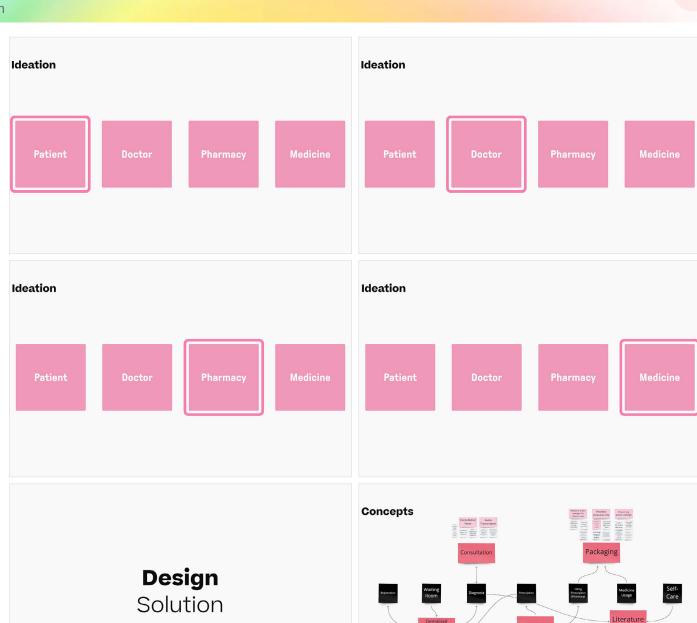
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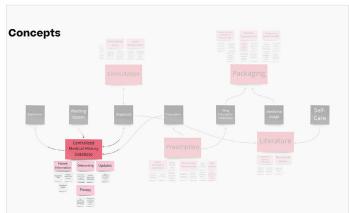
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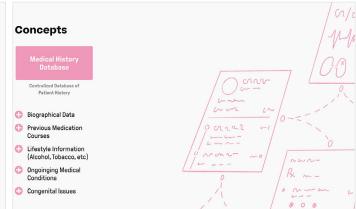
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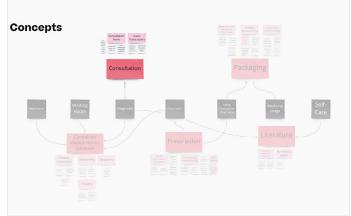
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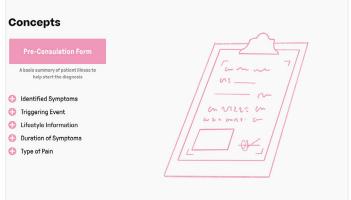
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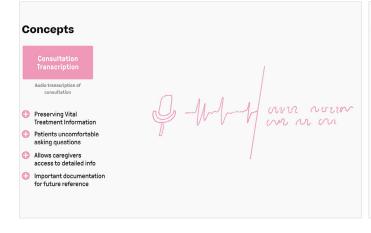
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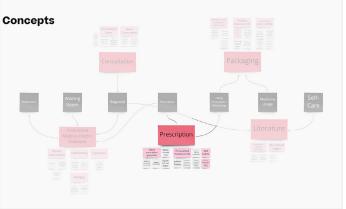












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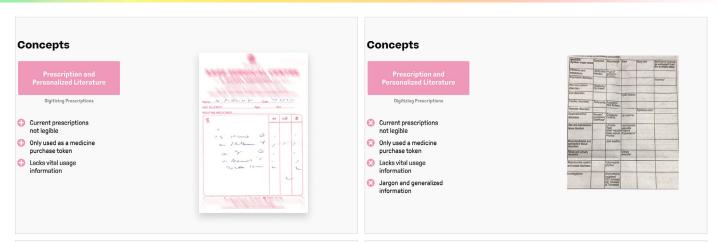
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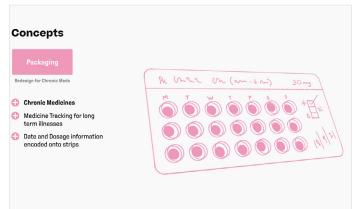
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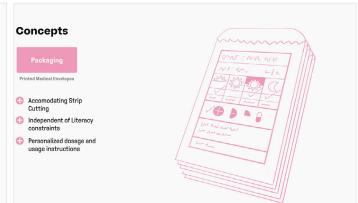
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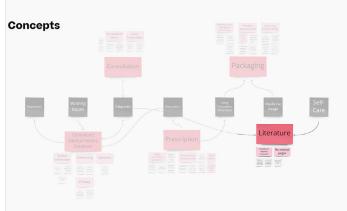
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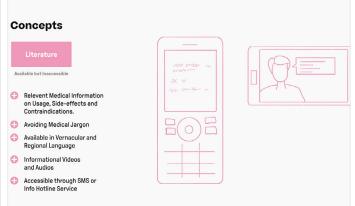
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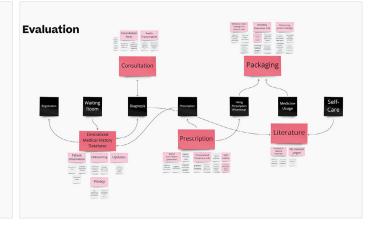








Preliminary **Evaluation**



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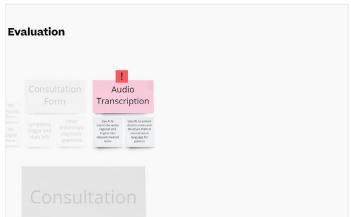
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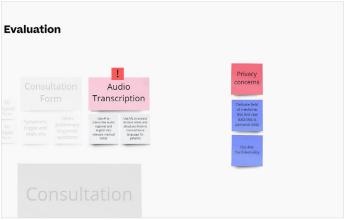
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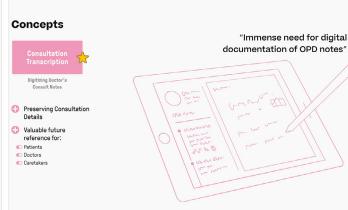
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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/indian-medicine-system/week-five-presentation-final-design

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4b. The Indian Medicine System

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Week Five: Presentation on Final Design Solution

Presentation

• The Indian Medicine System..... (13260 kb)



Presentation



Prototypes



More Link



Project Synopsis



Video

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Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 5 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

Presentation:

- . Each group has to make a video of their presentations a of the 5 weeks work in about 12 mins. duration and upload this in google classroom
- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

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Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features
- I. Final Scenario
- m. Form and Interface Development or detailing
- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

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- l. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e) It would be great if you can submit a copy of your MIRO board

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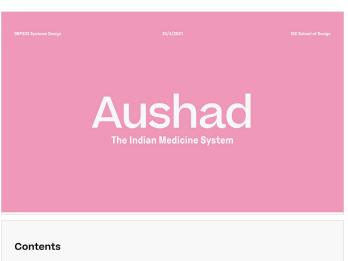
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Presentation

Presentation

• The Indian Medicine System..... (77760 kb)







Introduction

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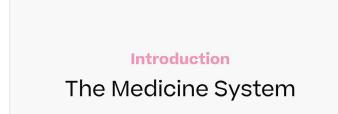
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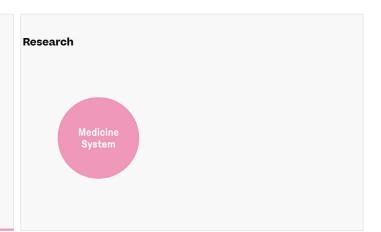
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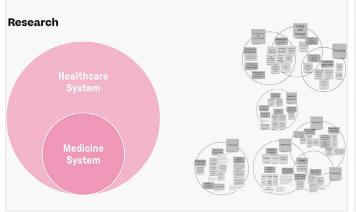
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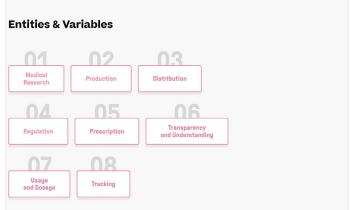
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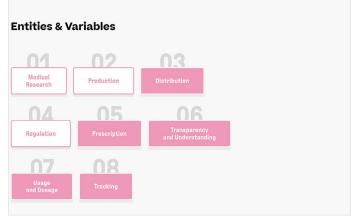
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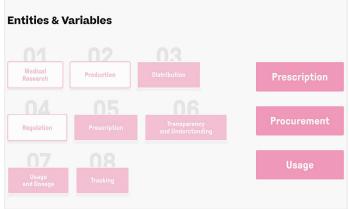












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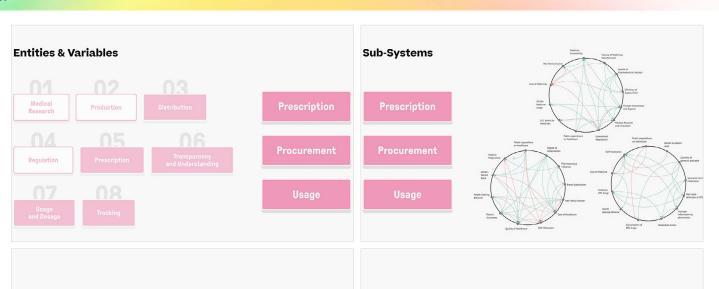
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Problem

Problem
System Insights





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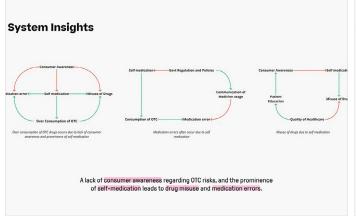
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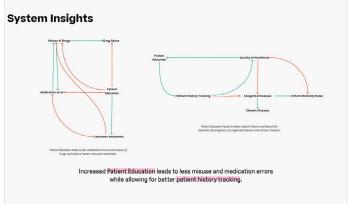
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Problem Design Opportunities

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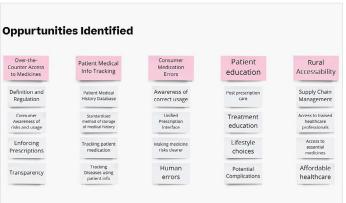
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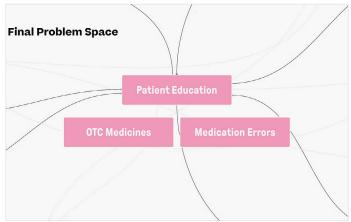
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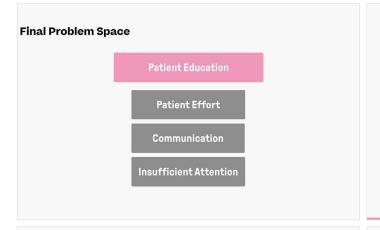
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Problem Statement

Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

Problem Statement

Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

Ineffective Communication and Documentation

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Ineffective Communication and Documentation

Patient Condition and Treatment

Problem Statement

Ineffective communication between doctors and patients leaves patients with insufficient understanding of their condition, treatment and leaves them unable to perform subsequent self-care. Doctors have to diagnose on incomplete or inaccurate information.

Ineffective Communication and Documentation

Patient Condition and Treatment

Compliance and Self-Care

Problem

Target Demographic





- 01 Semi-Urban
- 02 Tier 2, Tier 3 Cities
- 03 Medium to Low Income
- 04 Limited Healthcare
- 05 Crowded Healthcare Facilities
- 06 Limited Education

Primary Research







Pharmacists

Design Solution

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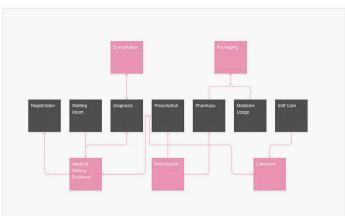
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Design Solution
User Scenarios





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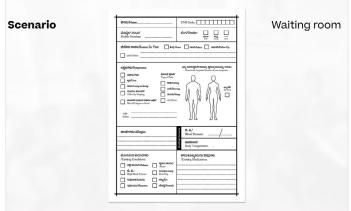
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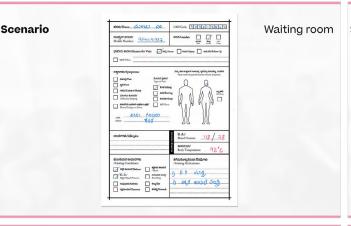
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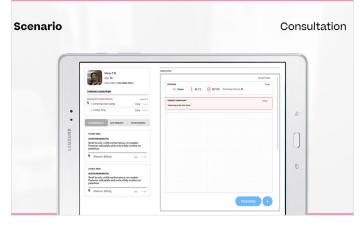
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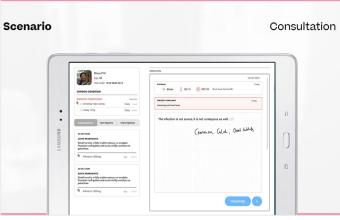












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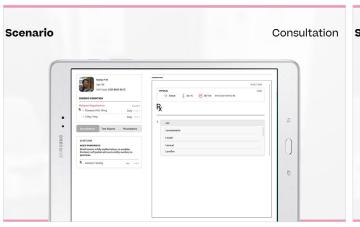
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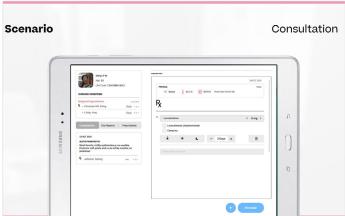
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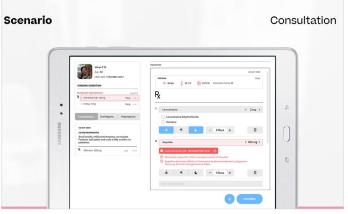
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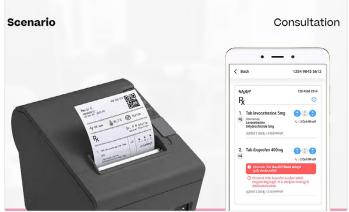
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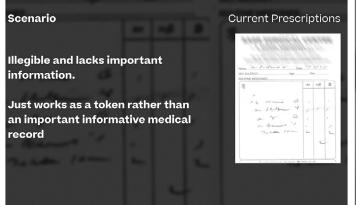
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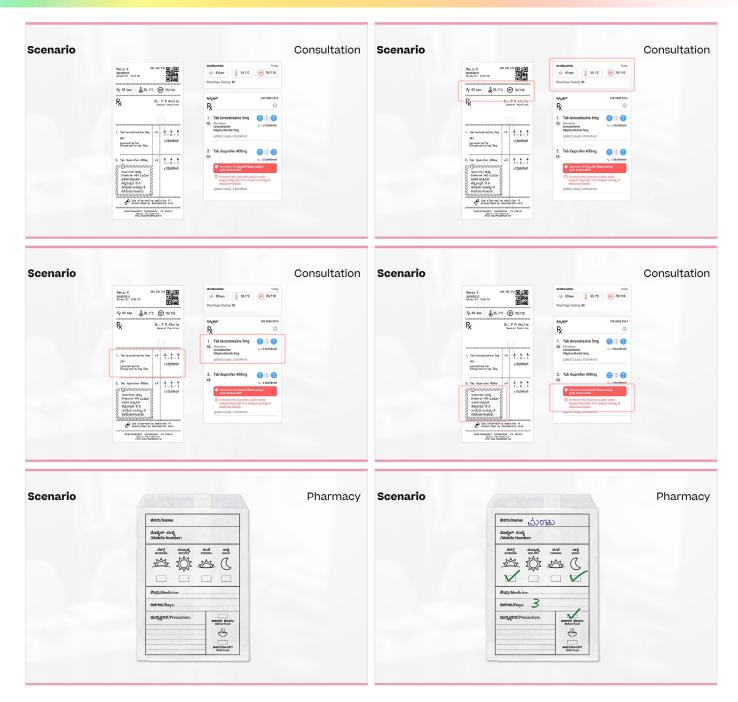
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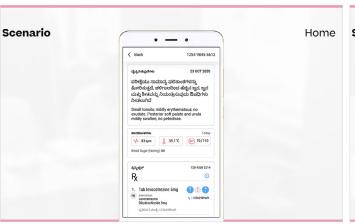
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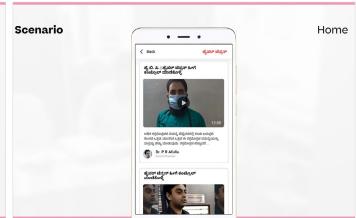
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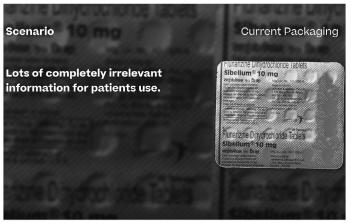
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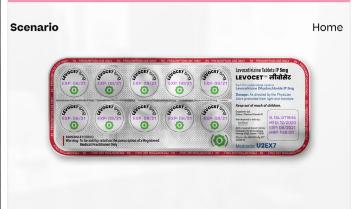
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https://www.dsource.in/course/systems-design-project/projects/indian-medicine-system/week-five-presentation-final-design-0

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- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

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4b. The Indian Medicine System

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4b.5. Week Five: Presentation on

Final Design Solution

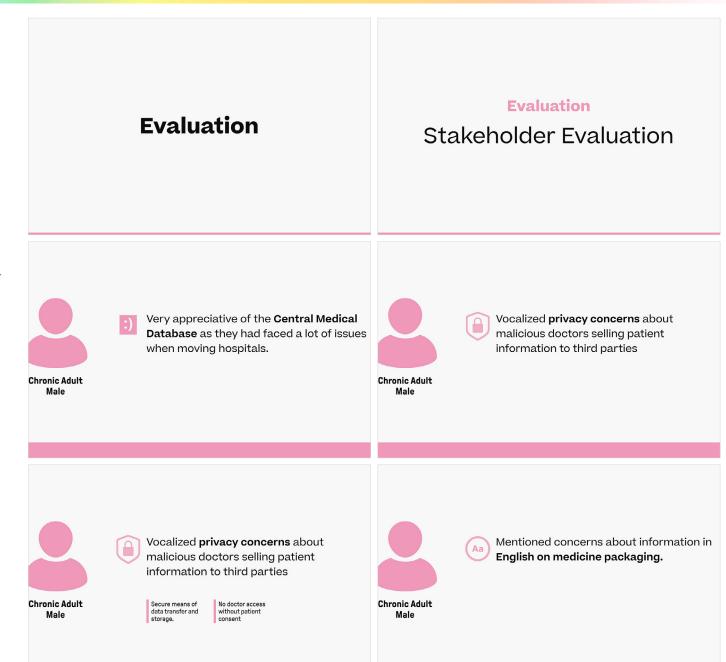
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4b.5.3. Prototypes

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- 5. Videos
- 6. Contact Details



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Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

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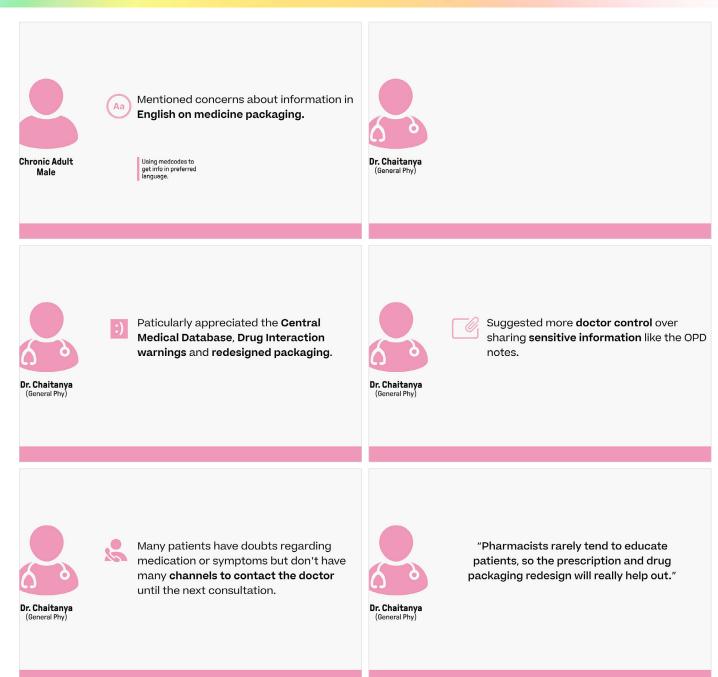
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"You hit a really big nail in the head. This is a fabulous undertaking, and very much needed currently."



Medicine class based symbols might envoke unsafe self medication especially in elderly

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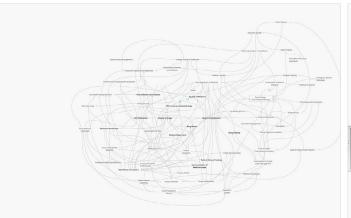
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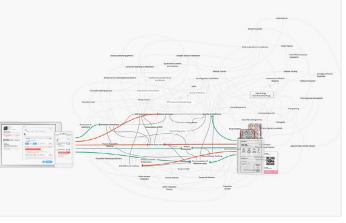
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System Connect

Final System Mapping

Evaluation





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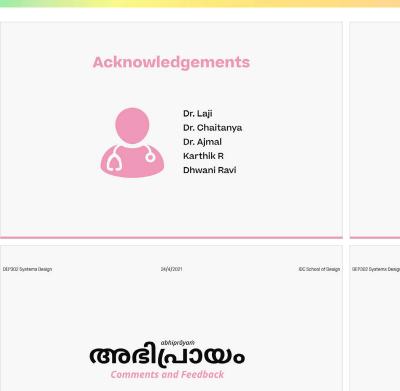
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Project Synopsis

This project is a deep dive into the Indian Healthcare system, specifically the Indian Medicine System, in an attempt to understand and map all the various perspectives in play and the clogs that interact to bring about these perspectives. Our team of 4, with specializations ranging from User Research to Interaction Techniques and Visual Design, was able to come together to identify the inner workings of this system and through secondary research and stakeholder interviews we were allowed to witness what works, what needs improvement and how innovatively people adapt to accommodate the system's lapses.

Having understood the unique challenges Indians face in this space, we identified Patient Education as one of the key aspects to empower through a series of interventions spread across the system. Disseminating the interventions allows for a more holistic approach to the problem rather than trying to push through from one angle. We mapped out how each of these interventions positively impacts the larger system and this system design proposal was then presented forth to valuable stakeholder insights. Their response was a healthy of approval and some improvement suggestions, further grounding our work into reality. We are proud to have had the opportunity to work on a solution for the semi-urban middle-class population, a demographic that is often underrepresented when it comes to design solutions. We hope that the progress we have made here inspires and creates a real positive impact in the near future.

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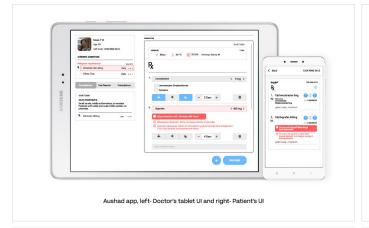
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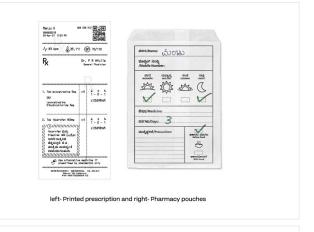
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Prototypes









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Video



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More Link

More Link

• The Indian Medicine System..... (325 kb)

Source:

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The BudBud Foundation



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus on it



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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Week One - Need Finding and understanding the Problem

Project Report

• The BudBud Foundation..... (270.48 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage – Understanding the Problem Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback Submission: Slide presentation + Report submission (must for grading) Grading Points: 15%

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Presentation

Presentation

• The BudBud Foundation..... (8790 kb)



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Interviews

Secondary Research

Future steps

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Interviews

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Brainstorming Narrowing down

Spectrum of interest

Mental Health First Decisions

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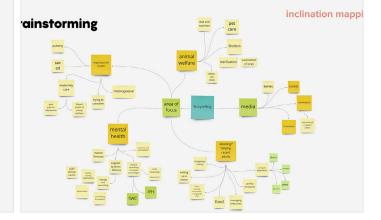
Focus Identification

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inclination mapping



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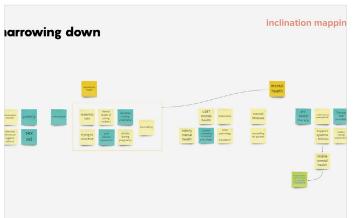
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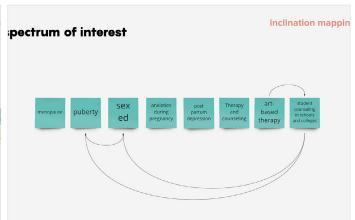
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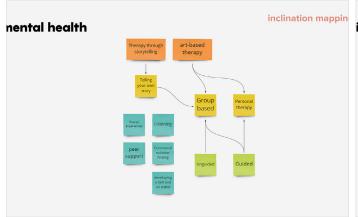
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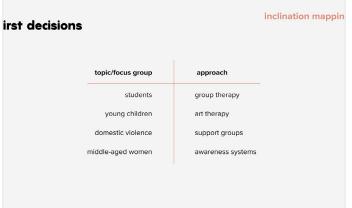
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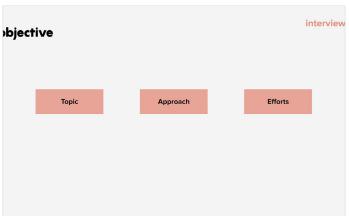












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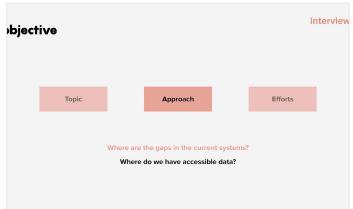
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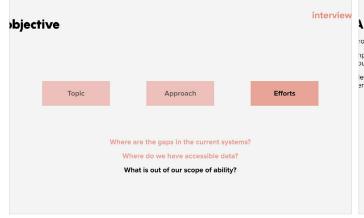
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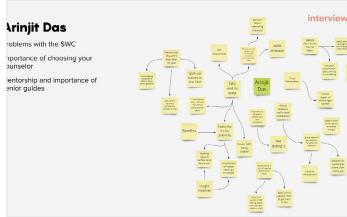
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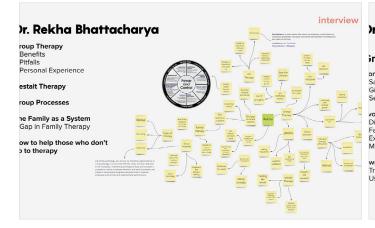
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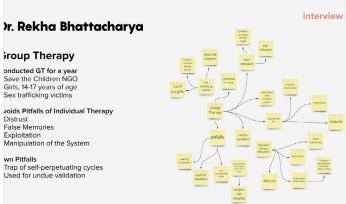












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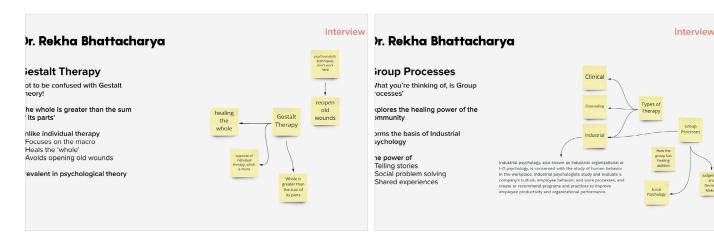
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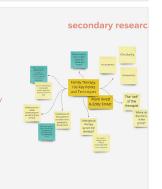
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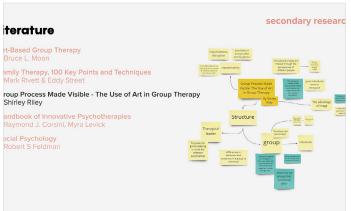
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Save The Children

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Alcoholics Anonymous

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IPH (Institute for Psychological Health)

secondary researc

focus identificatio



focus identification

irst decisions revisited

approach	topic/focus group
group therapy	students
art therapy	young children
support groups	domestic violence
awareness systems	middle-aged women
group processes	

roblem statement

focus identificatio

to understand applications of **group processes** and **art therapy** to create a system that serves as an **introduction to mental healthcare** for **college-level students**, including those who **do not seek therapy**

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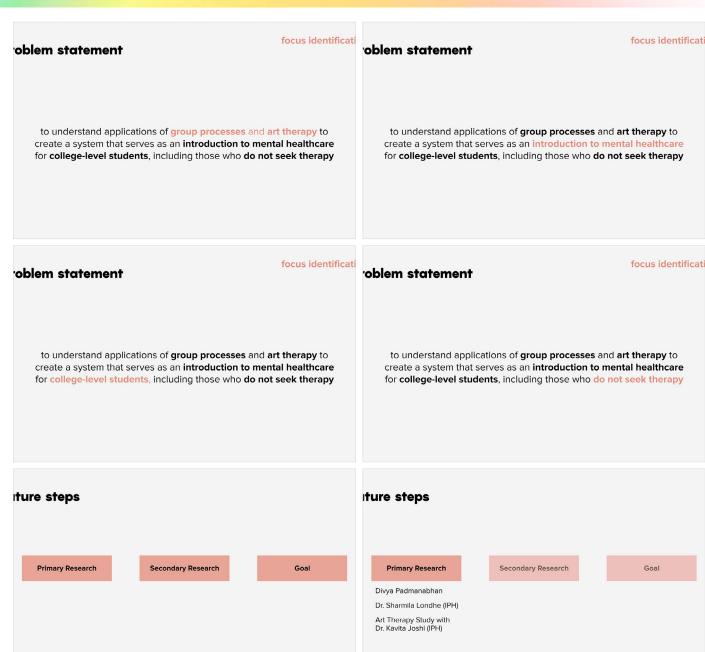
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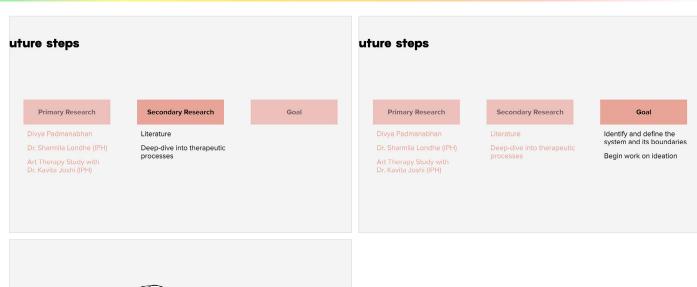
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- 5. Videos
- 6. Contact Details

Week Two: Identify your Problem Area and Focus on it

Project Report

• The BudBud Foundation..... (2640 kb)



Presentation

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage – Understanding the Problem Presentation

Dates:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

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Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

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Presentation

Presentation

• The BudBud Foundation..... (8790 kb)



presentation 2

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Understanding the Focus

Review

Understanding the Focus

Indian Attitudes

System mappin

Problem Area

Global Attitudes

Defining our Goal

Understanding Spheres of Influence

contents

Review and an (almost) Fresh Start

Understanding the Focus

Research

System mapping

Next steps

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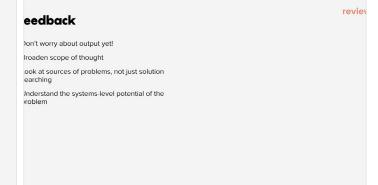
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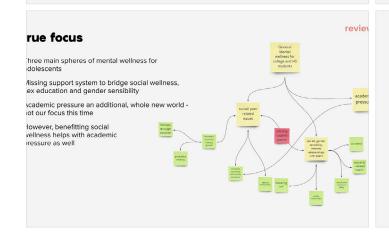
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understanding the focu

understanding the focu

Indonesia

difference

Independent bodies

Strong government

resistance to efforts

to obtain, abortions near- impossible

Contraception is difficult

understanding the focu

attempting to make a

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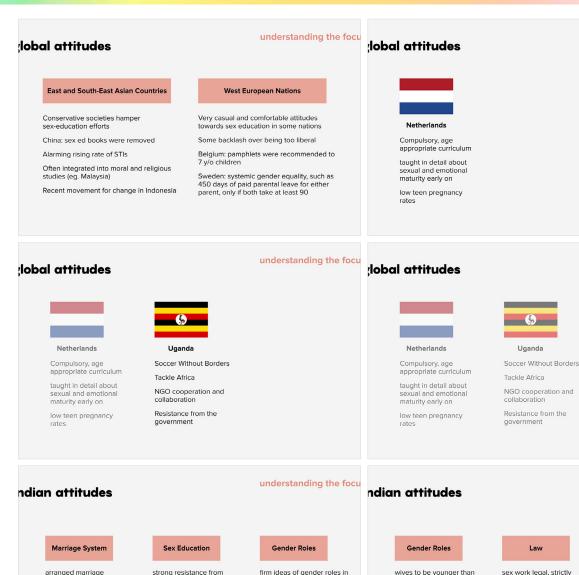
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conservative society

years towards breaking

conservative society

independent efforts

limited to biological

sex education mostly from

strong family support after

marital rape not recognized

brides not treated equally

marriage (often)

child marriage

wives to be vounger than husbands

strong belief in separating till date, displeasure at the boys and girls till adulthood birth of a girl in many families lots of change seen in recent

sex work legal, strictly regulated

section 377 verdict

liberal abortion code

penal code for rape and molestation does not consider assault on men

Regressive Traits

rape culture toxic relationships strict moral policing

revie

reviev

Media

Peers

Media

understanding the focu

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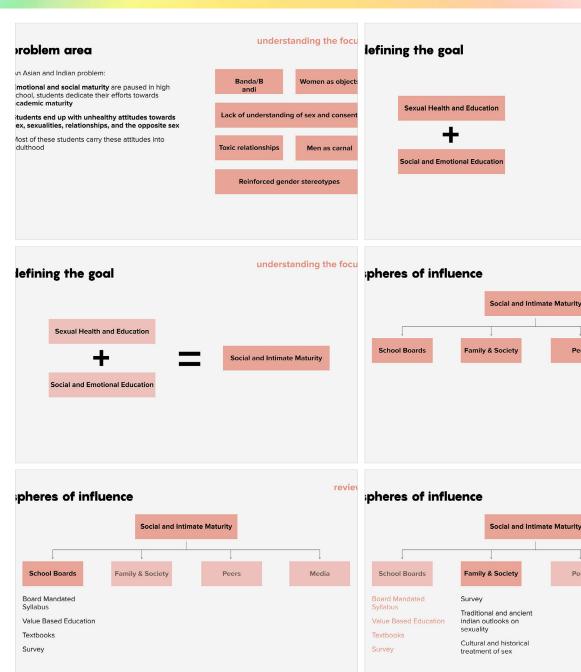
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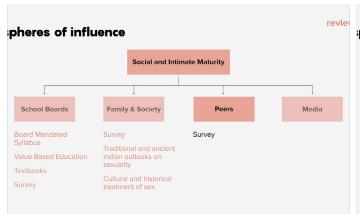
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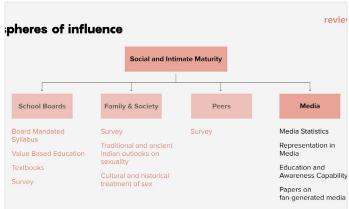
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IM through school board

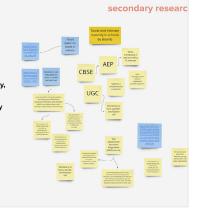
dolescent Education Program (AEP)-

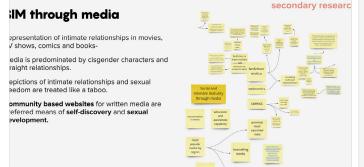
addresses the criticality of sex education for doloscents and recognises that the age group annot be treated as a homogeneous group.

ounger adolescents deal with problems of **pubert** rowth, and self identity.

Ider adolescents need to be educated on health lationships and consent.

aced heavy backlash and protests by politicians, onservative groups and teachers.







primary researc

primary researc

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urvey objectives

Inderstand the varieties in quality of sex education eceived in India and globally

pain insight on the efficacy and perceived importance if high-quality sex education

Inderstand the sources of social and intimate ducation

dentify problem areas and gaps in existing systems

primary researc survey traits

Divided into sections on:

- · Demographics and general information
- · Formal Sex Education
- · Sex Education through Family
- · Sex Education through Peers

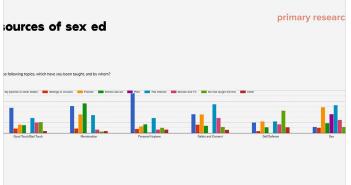
ources of sex ed

option to fill anonymously

Nostly mutliple choice, a few subjective questions

10 responses



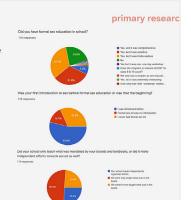


ormal sex ed

nly **7.3%** of responders felt they had comprehensive ex education

Il but 14% were introduced to sexual concepts utside of sex education

nared that quality of sex ed varies based on titudes of school authorities



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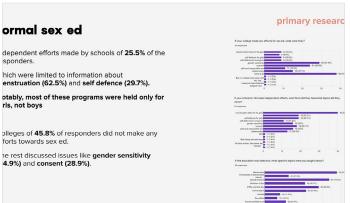
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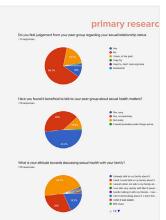


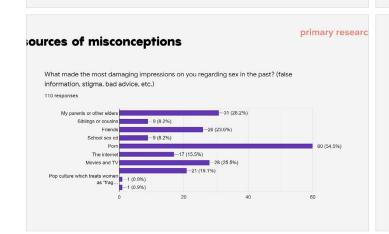


3% of responders felt **no judgement from peer oup** regarding their sexual or relationship status

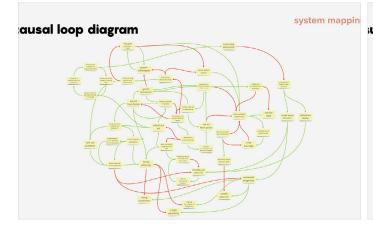
most **90**% of responders found it at least a little eneficial to talk to their peers about sexual health atters

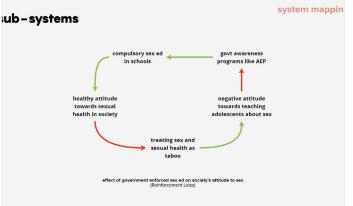
most half of the responders would rather not discuss sxual health issues with their family, while **30**% wish ey could and nearly **20**% already do.











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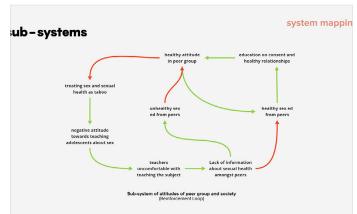
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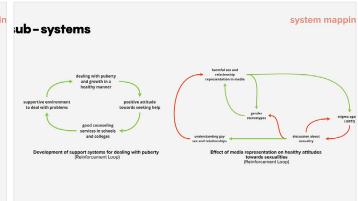
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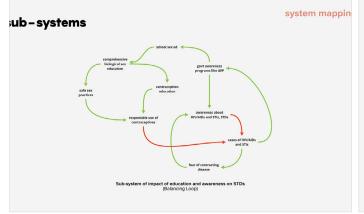
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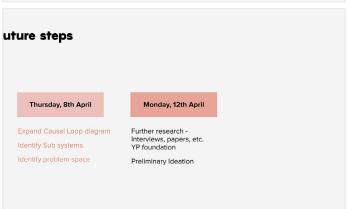












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4c.3. Week Three: Ideation - Focus on Problem Area

4c.3.1. Presentation

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4d, 4e, 4f

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Week Three: Ideation - Focus on Problem Area

Project Report

• The BudBud Foundation..... (1220 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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Recap Narrowing Focus

Next steps

Interview and Insights

Curriculum Breakdown

• The BudBud Foundation..... (19920 kb)



presentation 3

Narrowing area of focus

Interview and Insights

Next steps

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Narrowing Focus

Intervention Groups

Next steps

contents

Curriculum Breakdown

Possible approaches

Feedback

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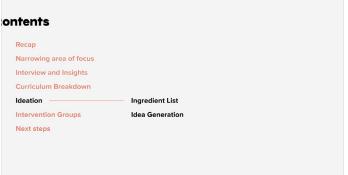
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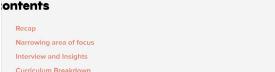
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Recap Narrowing area of focus Interview and Insights — Mayura Curriculum Breakdown Primary Insights Ideation Intervention Groups Next steps









Intervention Groups
Next steps

Ideation



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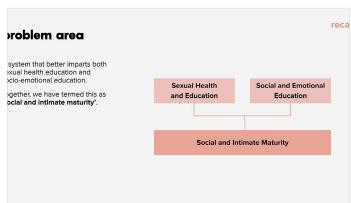
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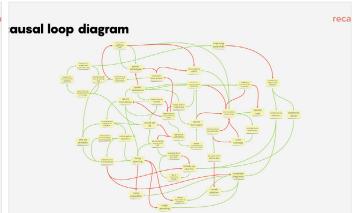
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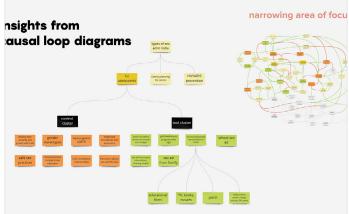
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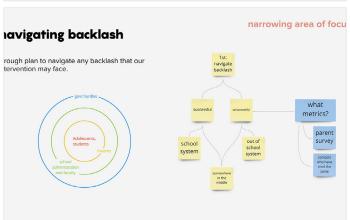












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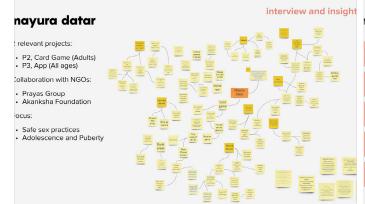
narrowing area of focu

esigning the entire curriculum may not be within the one of this module.

arrow it down to a particular topic or age group

ocus more on the delivery systems and design a way get across the information to the adolescents









interview and insight nsights Facilitator Model We are not the experts in content Often, our best efforts are in the delivery mechanism: How does the curriculum reach audiences? Curriculum Harmful yet common sex ed:

- · Portrays girls as victims
- · Ignores boys and their development
- Makes sex shameful

Online Media

Peer Education

Attitudes

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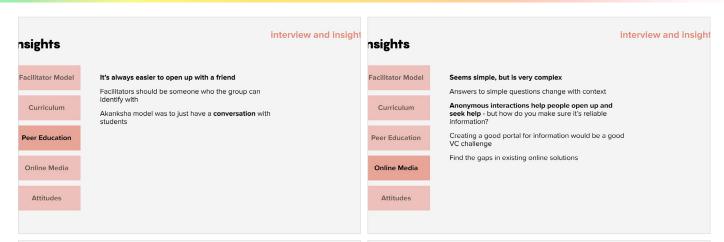
4c.3. Week Three: Ideation -Focus on Problem Area

4c.3.1. Presentation

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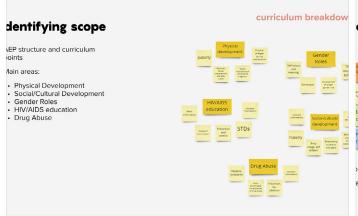
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ecided to choose focus from a single category and age group, to allow for focus on specific delivery

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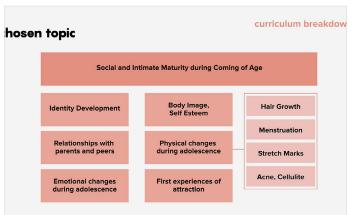
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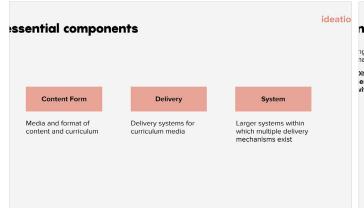
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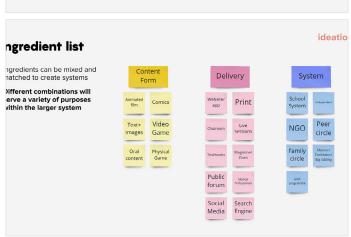
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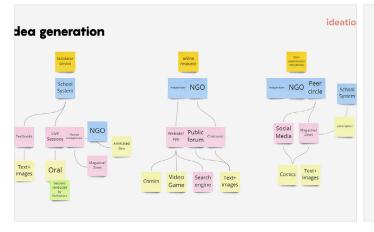
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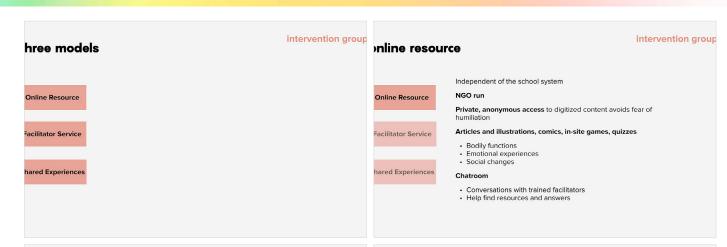
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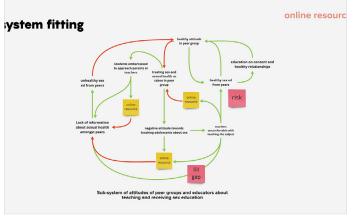
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· Risk of unhealthy peer education

Promote positive outcomes in causal loops

· Fill gaps in formal systems

Provide Framework

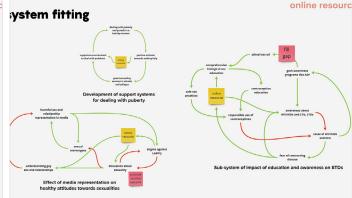
ystem role

Online Resource

acilitator Service

ared Experiences





Providing trained personnel to schools to adopt the role of quidance counselor

Use curated material to spark discussions and talk to students about prescribed topics

intervention group

- · Film/Animated Film
- Games
- Books

Serialized, coherent curriculum

Regular interaction builds trust with students

As part of the school system, would have the largest reach

Class discussions + private conversations when needed

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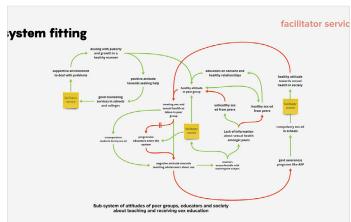
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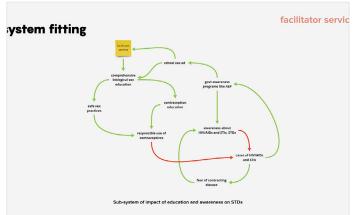
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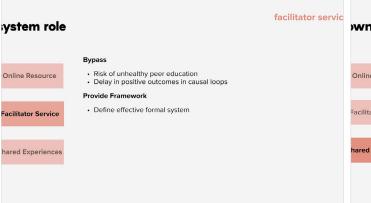
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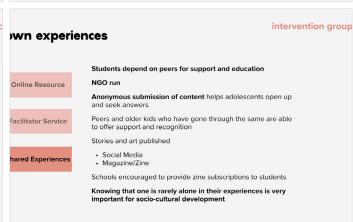
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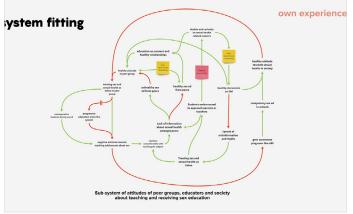
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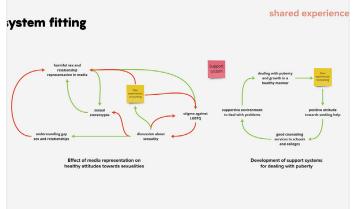












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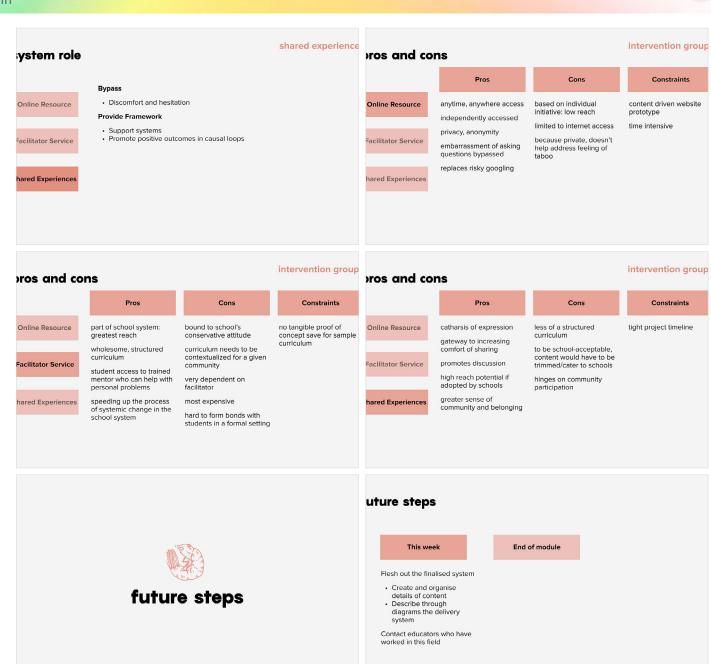
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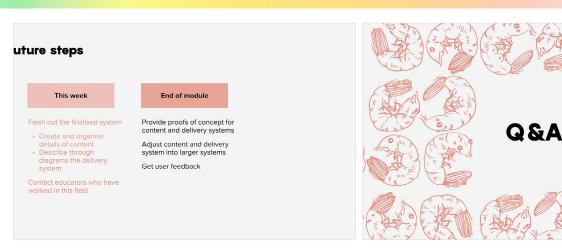
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Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for

Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

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- a) Presentation Slides upload it on the google classroom Week 4
- b) Project Report upload it on the google classroom Week 4

Grading Points: 15%

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Presentation

Presentation

• The BudBud Foundation..... (30510 kb)



presentation 4

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Interview

Forming the Structure

Sustainability Planning

User Feedback What's Left

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recap

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system that better imparts both exual health education and ocio-emotional education.

gether, we have termed this as ocial and intimate maturity'. Sexual Health Social and Emotional and Education Education

Social and Intimate Maturity

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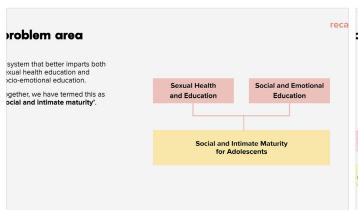
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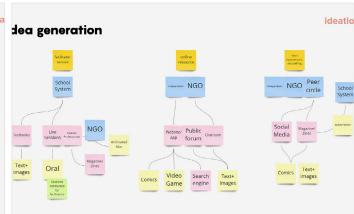
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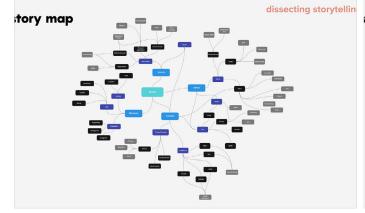
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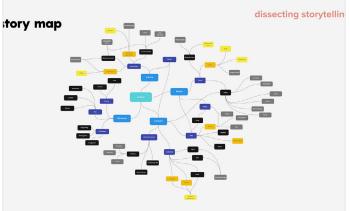












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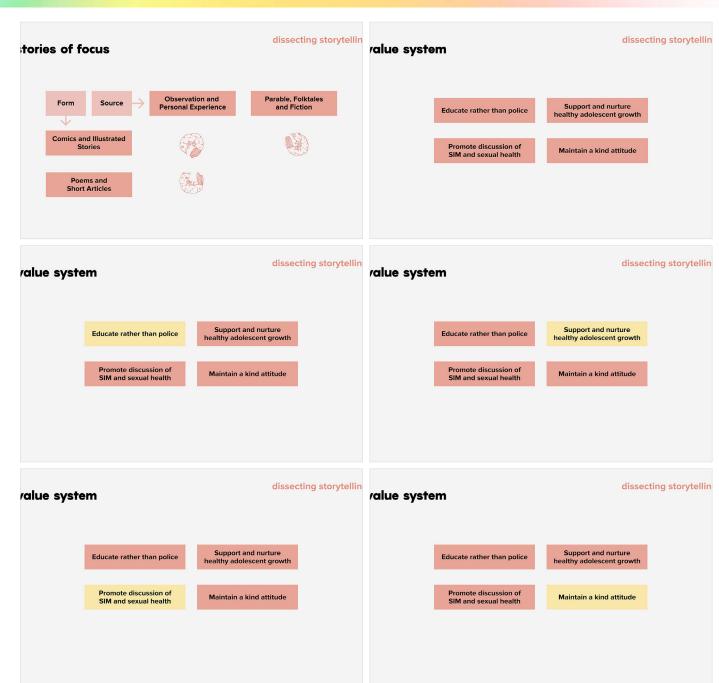
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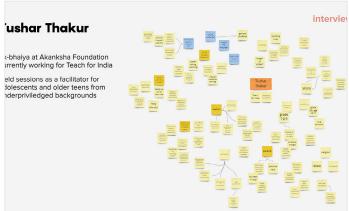
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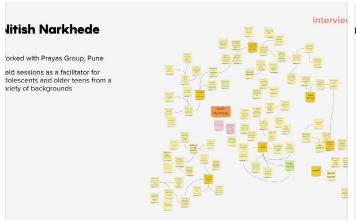
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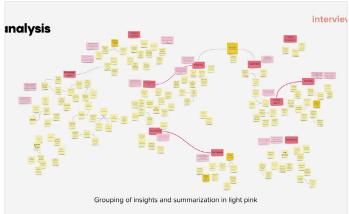
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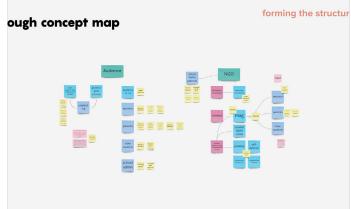
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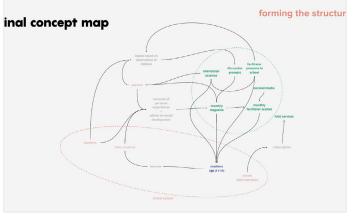












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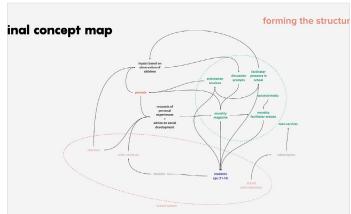
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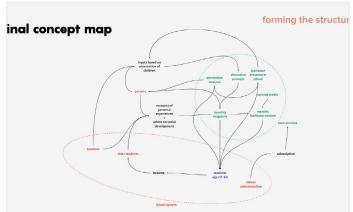
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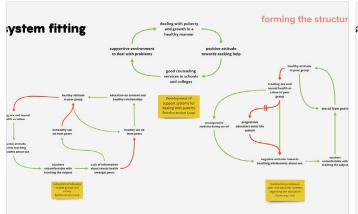
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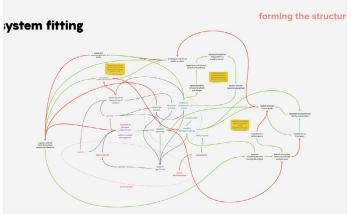
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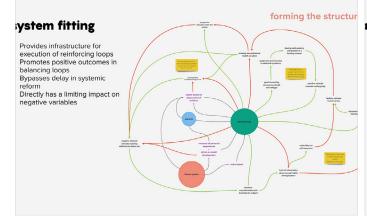
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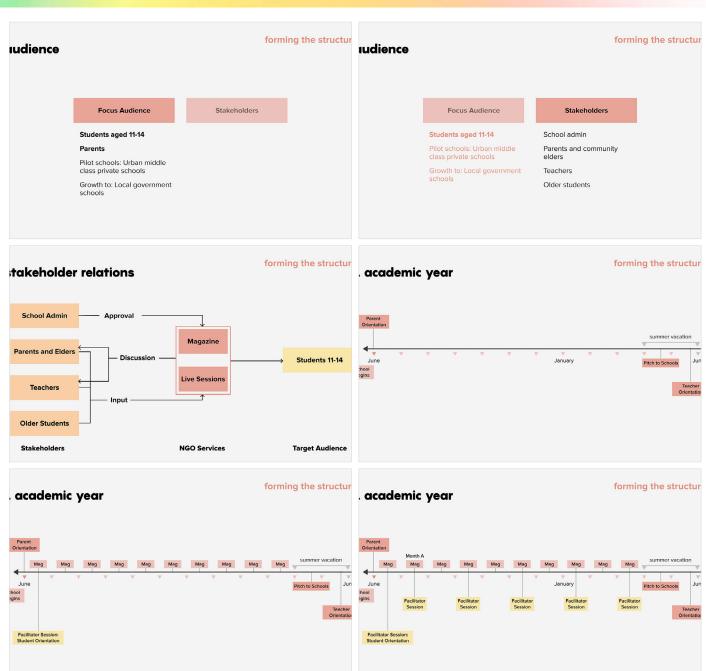
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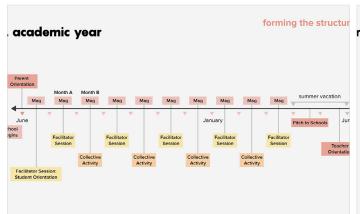
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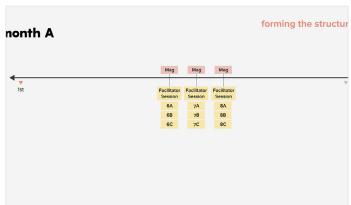
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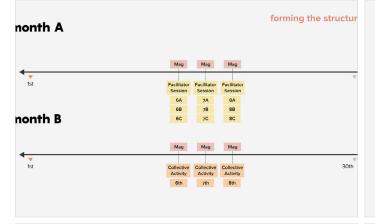
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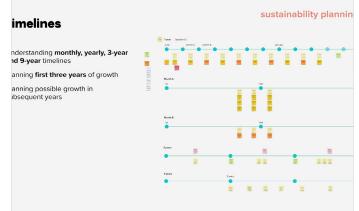
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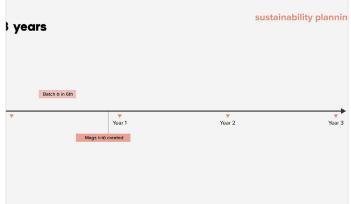












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 - 4c. The BudBud Foundation

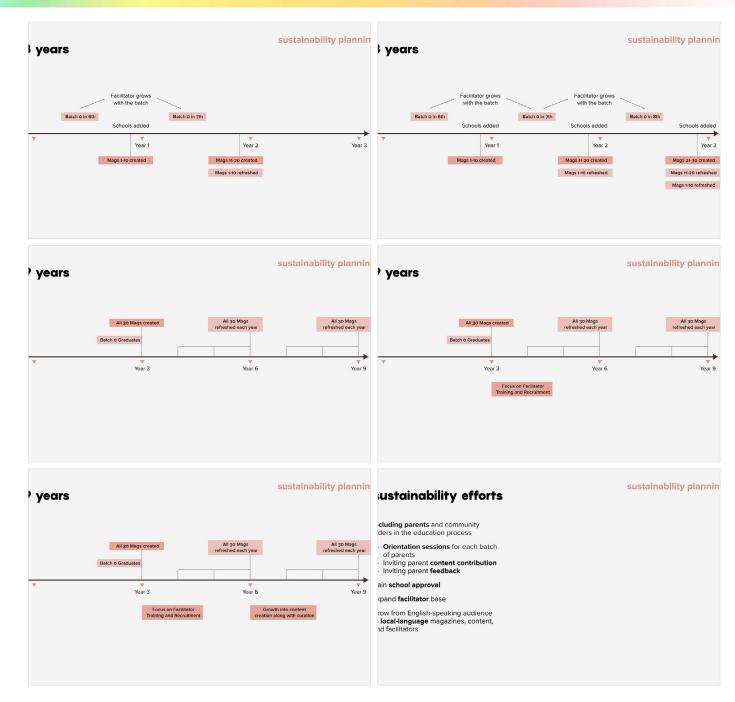
4c.1, 4c.2, 4c.3

4c.4. Week Four: Focus on Soft Prototyping

4c.4.1. Presentation

4c.5. Week Five: Presentation on Final Design Solution

- 5. Videos
- 6. Contact Details



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Systems Design Project

Interconnected and form a System within Defined Boundaries

ЭУ

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

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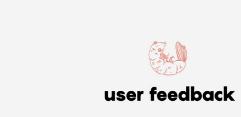
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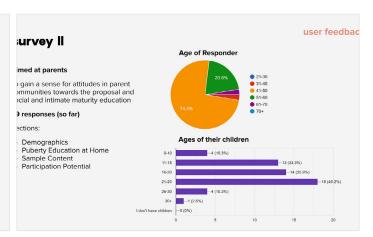
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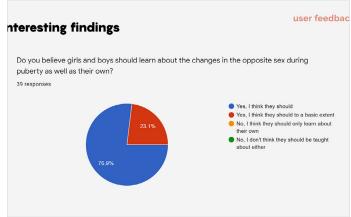
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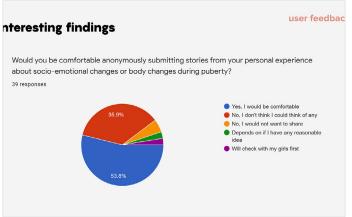
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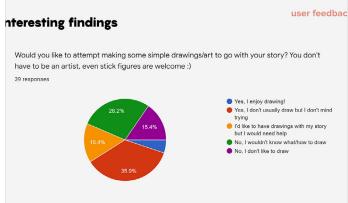
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ample content

ree sample comics created

- Socio-emotional changes
- Physical changes
- · LGBTQ+

Il based on **real experiences** as the agazines would have

esented in different styles, with fferent levels of brazen-ness

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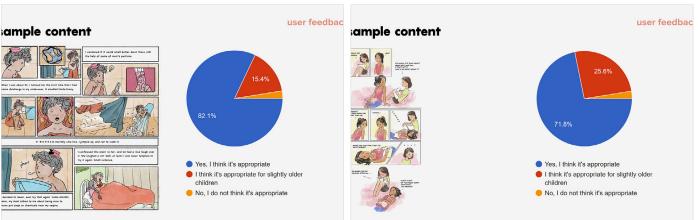
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This magazine is good idea .I think they should be available in school libraries and teachers & parents should encourage the children to go through it .

es, surely. Specific teen related issues, sexual awareness, puberty - physical and mental changes etc

Aggazine should have a Q&A in which there need to be questions which usually comes in to the minds if hildren about this and the answers to them from an expert consultant.

think education by counselors at school may also be helpful

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End of module

Provide proofs of concept for content and delivery systems

- Magazine
- Curriculum outline
- Service Blueprint

Demonstrate through user



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4c.5.3, 4c.5.4, 4c.5.5, 4c.5.6

4d, 4e, 4f

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Week Five: Presentation on Final Design Solution

Project Report

• The BudBud Foundation..... (22280 kb)



Presentation



Project Synopsis



BudBud Magazine



Okolombo



Project Links



Video

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Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 2 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

Presentation:

- . Each group has to make a video of their presentations a of the 5 weeks work in about 12 mins. duration and upload this in google classroom
- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

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Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features
- I. Final Scenario
- m. Form and Interface Development or detailing
- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

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- l. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e)It would be great if you can submit a copy of your MIRO board

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Presentation

Presentation

• The BudBud Foundation..... [2] (62120 kb)



final presentation

contents

identifying the problem area

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the facilitator session

onwards

contents

identifying the problem area

design process

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onward

contents

identifying the problem area

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onwards!



problem are

Women as object

problem are

'Bandi' culture

Toxic relationships

Social and Intimate Maturity

Lack of understanding of sex and consen

Reinforced gender stereotypes

Social and Emotional

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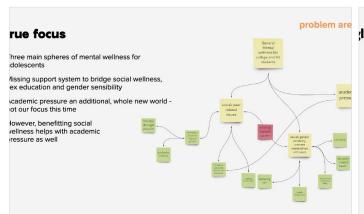
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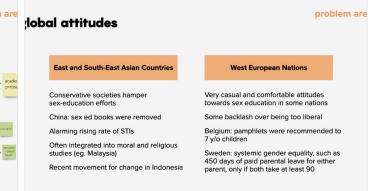
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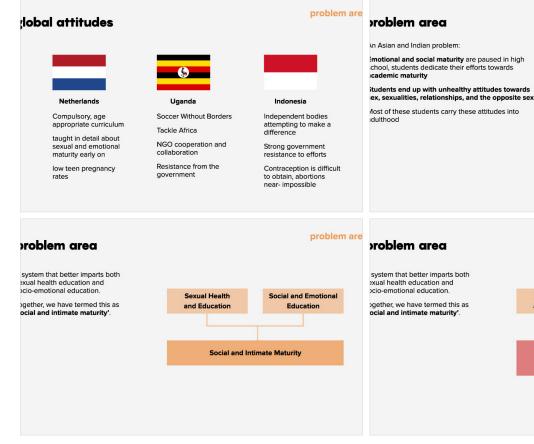
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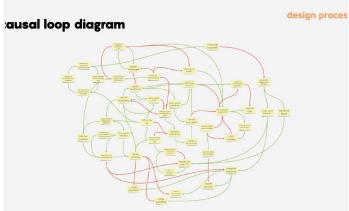
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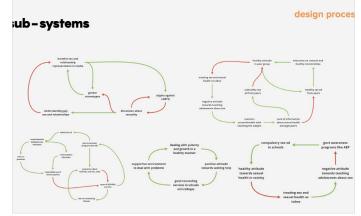
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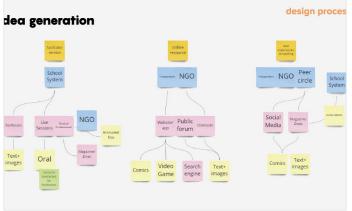












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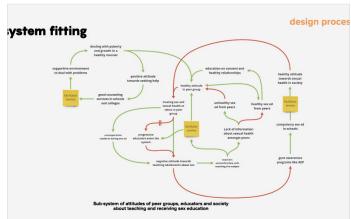
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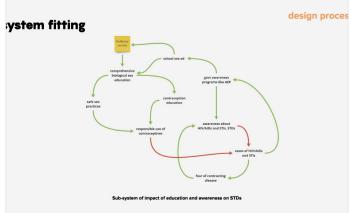
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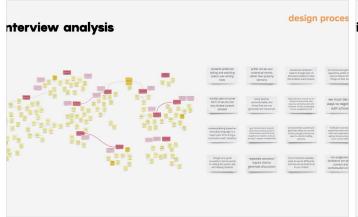
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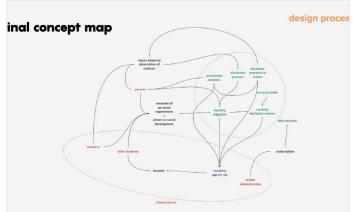
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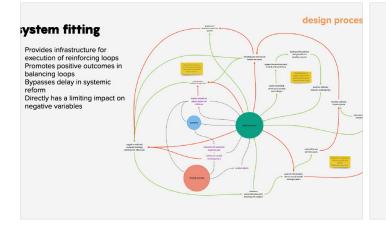
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Facilitator Service

Trained Facilitators assigned

Monthly sessions conducted

Available for counselling

to partner schools

with students

he service

bud

chatter, conversation something in an early stage of development

Magazine

30 Monthly issues over 3 years (6th-8th)

Derive content from community submissions

On Body and Socio-emotional



the BudBud foundatio he service

NGO and School Partnership System



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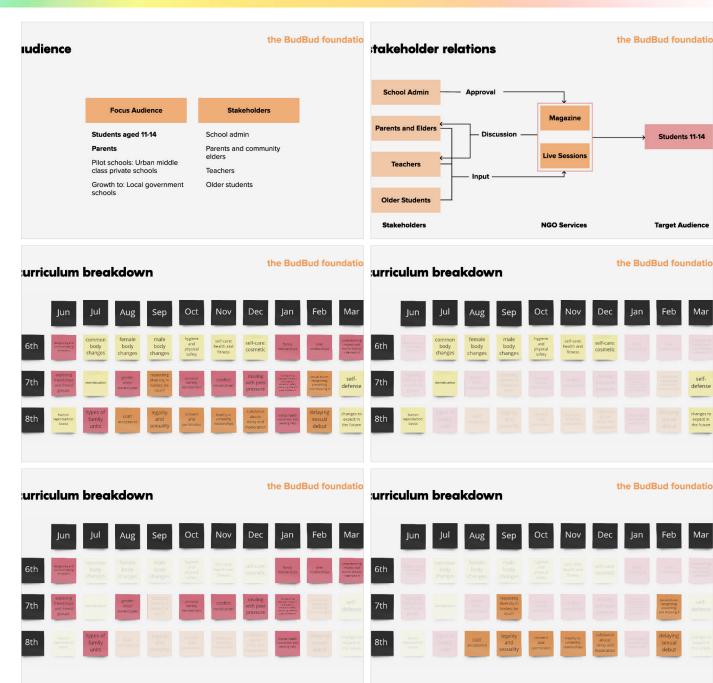
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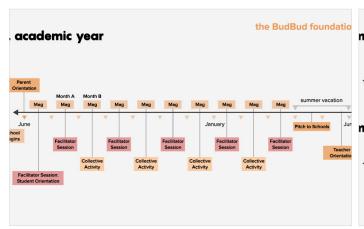
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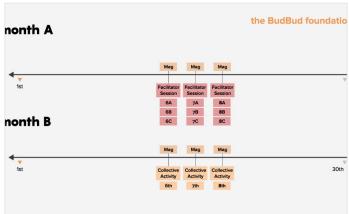
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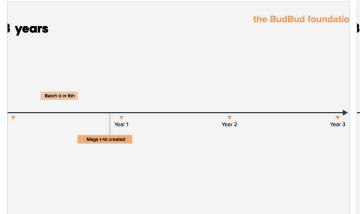
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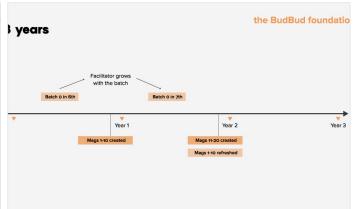
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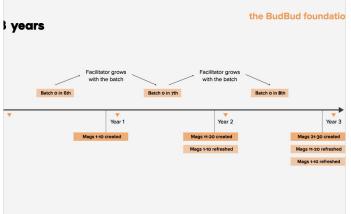
- 5. Videos
- 6. Contact Details

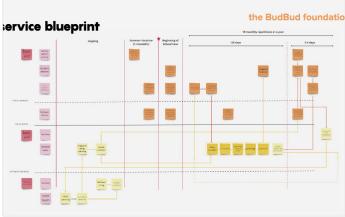












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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/budbud-foundation/week-five-presentation-final-design-0

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4b. The Indian Medicine System

4c. The BudBud Foundation

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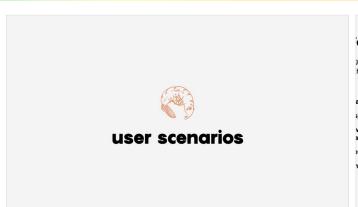
4c.5. Week Five: Presentation on Final Design Solution

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4c.5.2. Project Synopsis

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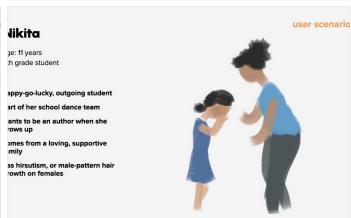












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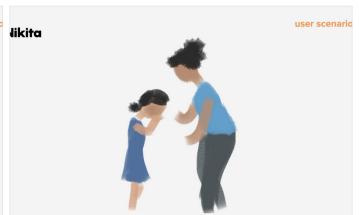
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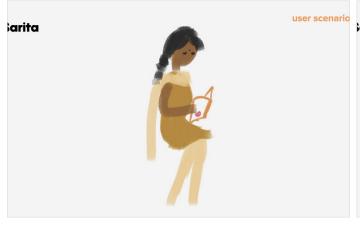
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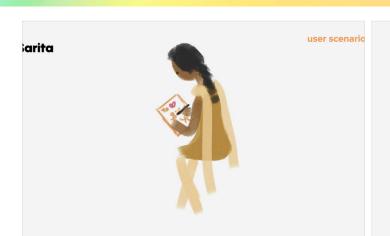
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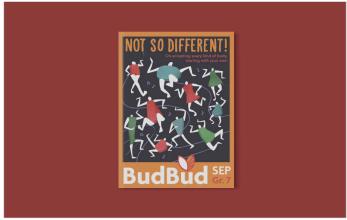
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the facilitator session

curated content

In Shapes, Blue Zoo Animation animated short film about self-confidence and respect

onward

onward

Year 6

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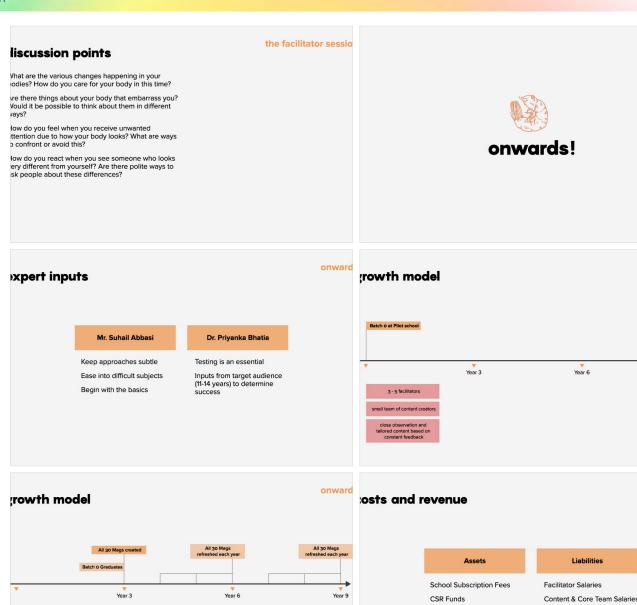
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We hope to create a culture of **discussion** and **nurturing** within the school system and at the homes of students, in order to help them blossom into **responsible, kind, and empathetic** young adults. At the base of it all, we feel that all the system needs...



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Project Synopsis

Key-words: Sex Education, Puberty, Socio-Emotional Education, Adolescence, School System

In this project, we have explored a narrow region in the wide domain of sexual health and social reform in India through the lens of education at the school level. Coining our goal 'Social and Intimate Maturity', we worked towards building an intervening structure in the current system of reproductive and social health education.

We conducted both primary and secondary research on the topic. We found and studied government guidelines, and collected people's experiences through a survey, and used this data along with our chosen design process and interviews with professionals in the field (sex education facilitators at the Akanksha Foundation and Prayas Group) to come up with our proposed solution.

Our intervention is a monthly magazine + facilitator service, delivered via a partnership between the school system and our proposed NGO. We would work with students from grade 6-8 in monthly sessions, each dealing with any one particular topic, like consent, bodily changes, relationships, etc. One of the things we identified was that hearing someone's experiences, realising that other people have gone through the same thing and that it is normal, helps both adults and children a lot. So, our magazine would mostly be comics and illustrated stories of people's experiences, collected from parents and older students. It would also have Q&A sections, conversation starters for parents, and some inputs from teachers.

With this, we hope to create a culture of discussion and nurturing within the school system and at the homes of students, in order to help them blossom into responsible, kind, empathetic adults.

Miro Board Link: Okolombo Miro Board

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4c.5.3. BudBud Magazine

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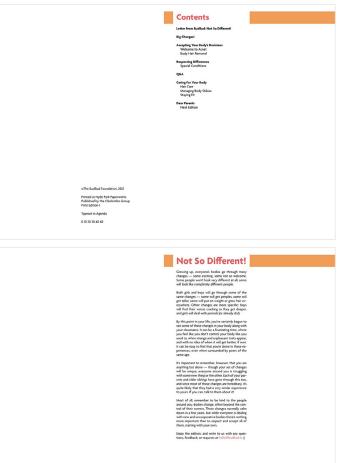
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BudBud Magazine

BudBud Magazine

• The BudBud Foundation..... (13110 kb)





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Accepting Your Body's Decisions



















Respecting **Differences**



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pecial Conditions

ave little to no colour in their skin, hair and Albinism further causes many issue— it puts it higher risk of skin cancers; it gives you sensi-kin, and also causes vision problems. Albinism genetic disorder, and it is present from birth, ctive clothing, sunglasses, and prescribed eye-is are usually needed by albino individuals.

Caring For

Your Body

IT STAYS

PATCHY FOR

COUPLE OF

PATCHY BEARD

when I was in school I had a classmate who was wheelchairbut switched

I remember seeing my classmates change a little after that talk - the more time with him,

thinking about how most of my classimates tried to include

I think that the picture of me that was taken on that day was the first one that

made me feel genuinely

our principal explaine to us very early on that he had a cond dystrophy, which mad his muscles get weaker really glad she explain

To that 14 year old me who has never been satisfied with how I looked, a haircut from a salo

looking back, I feel warm YEAH!

Q&A

solid doing it. There are several methods for hair removal. He wanting threading, sharing, using his removal coresms, and more Each have benefits and partials for entances, while it as myst has drawing your har makes it come back thicker; do does come your har makes it come back thicker; do does come you har makes it come back thicker; do does come or wheels, but it can be very painful and dangerous; for young or ensitives like for your first it no, normally best to go to a professional, and certain-ness and ensitive shirtly you do not not consider the proof of the control and censitive shirtly you doing patch tests before going ahead with anything.

are, they would have faced the same issues when they were your age. Latty, about the bullying: re-member that people who want to bully will bully you for anything, whether it's the presence of hair or the absence of it, for being tall or short or skinny or fat. Before you decide to remove your hair, make sure that you're doing it solely for yourself, and not in an attempt to get the bullies to stop, as that will almost never work. While it's harder sad than done.

air Care

e are so many different kinds of hair, that is no one fit for all, when it comes to hair care. hair may be straight, wavy, curly or coily, it may uigh or smooth, oily or dry, or anything in be-n. In this short article, well cover the basics.

Ano marage risz.

Nair Mask?

Certain home remedies can really help deal with hard damage, excessively oily or dry hair, spile ends, or to help promote hair growth. Hair masks should not be the promote hair growth. Hair masks should not be the promote hair growth. Hair masks should not have before being remed off completely, perferably with cold water. Raw egg, yopput and honey, and olive oil and avocado an great for hair in different ways - a quick google seech or asking your parents will give you many more, tool

Managing Body Odour

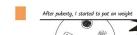
Showering Regularly
Keeping yourself clean and washing yourself every day (or even twice a day in the summer) with antibacterial soap can help keep body odour under

vant to go an extra step, certain fabric softe



iting in any kind of active sport can help fit, form friendships, and at the same time of and in control of your body. However always for everyone, so there are plenty o

icing any rigorous form of dance regularly, be ssical or hip-hop or contemporary, helps tone



I was upset

hated my fat















I even bought a hair dryer

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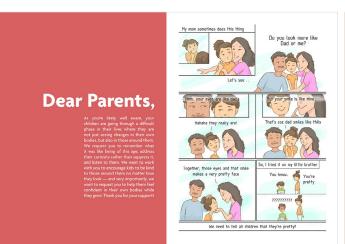
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Next Edition!

To our contributors this time, that you so much for your help in makin this edition as lively as possible. We look forward to your wonderfrontributions to next month's edition as well!

Prompts

Personal Identity Developm

in teenagers. Adolescence is a time when child are exploring their newfound selves, and a crisis identity is not uncommon when they are unable decided their their seasons when they are unable

We hope to use your stories encourage teems to be patient with themselves, to remember the self-chosen core values when it comes to defining their identity, and to not worry about fitting into resisting howes. Here are represented to east your

you remember feelings of finding it difficult to in with your peers? How did you manage these

Was there a time in your life when you found your self unsure about your actions or the kind of perso you were becoming? Did you make any changes i

Did you have a falling out with your friend group when you were younger? How did you cope with it, and did you make up later or find other friends that

lus any story that comes to mind about finding ar identity, dealing with loads of media influenc-

We look forward to your very valuable advice fithis new adolescent generation to help each of them are to become wooderful people.

Email us as many stories, drawings, or comics



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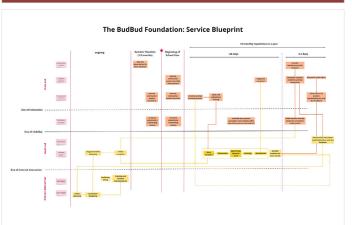
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Okolombo









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4c.5.5. Project Links

4c.5.6. Video

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Project Links

More Links

• The BudBud Foundation..... (235.93 kb)

Final Presentation Video Link: The BudBud Foundation Miro Board Link: Okolombo Miro Board

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Video

user s **Farhan** age: 13 years 8th grade student class topper, great at cricket. aspires to get into AIIMS always searching for the biological basis of things. very concerned about his feelings anxious and terrified

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Indian Education System



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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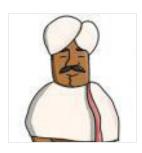
4e, 4f

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Week One - Need Finding and understanding the Problem

Project Report

• Indian Education System..... (679.98 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage – Understanding the Problem Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback Submission: Slide presentation + Report submission (must for grading) Grading Points: 15%

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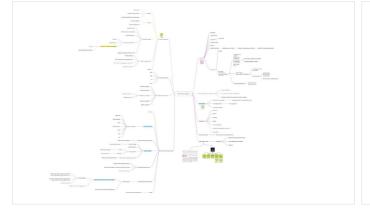
Presentation

Presentation

• Indian Education System..... (1900 kb)









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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

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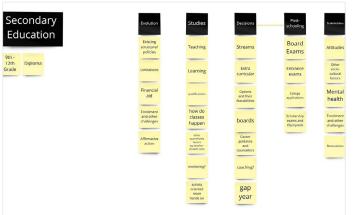
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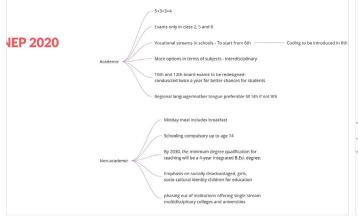
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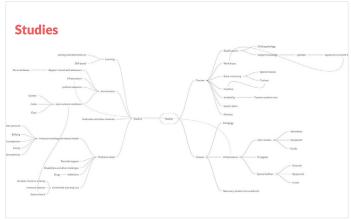
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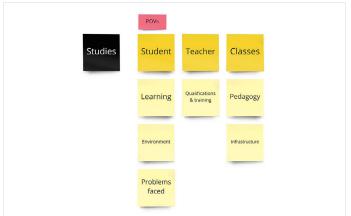
- 1. Aims of Systems Design Project
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 - 4a. Navaaz EV Charging Solution
 - 4b, 4c
 - 4d. Indian Education System
 - 4d.1. Week One Need Finding and understanding the Problem
 4d.1.1. Presentation
 - 4d.2. Week Two: Identify your Problem Area and Focus on it 4d.3, 4d.4, 4d.5
 - 4e, 4f
- 5. Videos
- 6. Contact Details

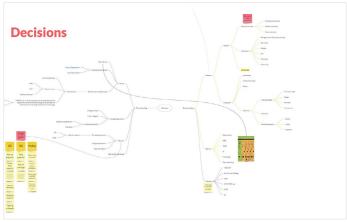












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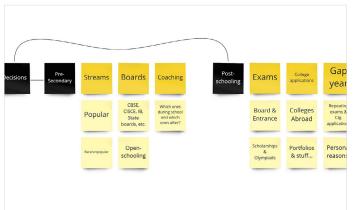
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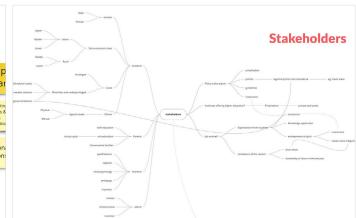
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Source:

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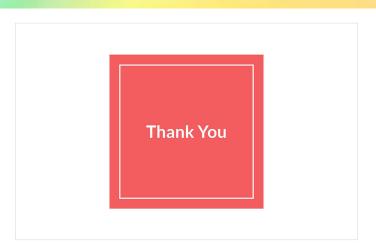
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- 1. Aims of Systems Design Project
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4a. Navaaz EV Charging Solution 4b, 4c

4d. Indian Education System

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4d.3, 4d.4, 4d.5

4e, 4f

- 5. Videos
- 6. Contact Details

Week Two: Identify your Problem Area and Focus on it

Project Report

• Indian Education System..... (1320 kb)



Presentation

The section

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage – Understanding the Problem Presentation

Dates:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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4d.2.1. Presentation

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4d.3, 4d.4, 4d.5

4e, 4f

- 5. Videos
- 6. Contact Details

Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

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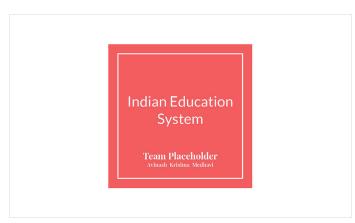
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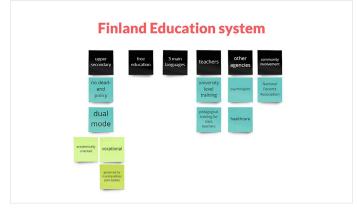
Presentation

Presentation

• Indian Education System..... (1700 kb)









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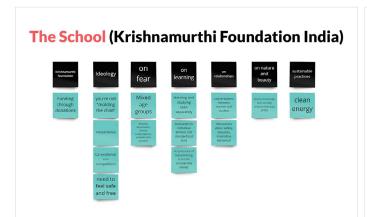
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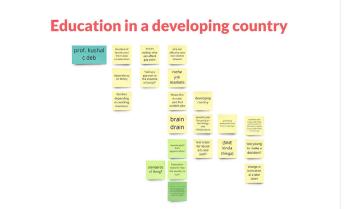
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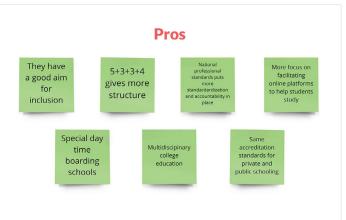
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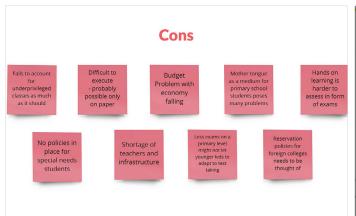
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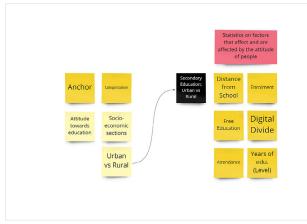
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lext Steps

- · Focussing on the urban sector
- Mapping out and detailing problems areas
- Identifying and prioritising problems

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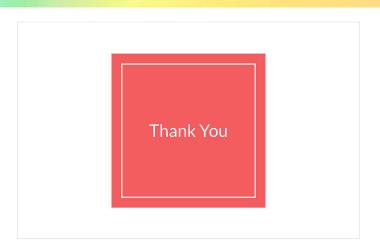
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https://www.dsource.in/course/systems-design-project/projects/indian-education-system/week-three-ideation-focus-problem

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4a. Navaaz EV Charging Solution 4b. 4c

4d. Indian Education System 4d.1, 4d.2

4d.3. Week Three: Ideation Focus on Problem Area
4d.3.1. Presentation

4d.4, 4d.5

4e, 4f

- 5. Videos
- 6. Contact Details

Week Three: Ideation - Focus on Problem Area

Project Report

• Indian Education System..... (3300 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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4b, 4c

4d. Indian Education System

4d.1, 4d.2

4d.3. Week Three: Ideation - Focus on Problem Area

4d.3.1. Presentation

4d.4, 4d.5

4e, 4f

- 5. Videos
- 6. Contact Details

6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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4a. Navaaz EV Charging Solution

4b, 4c

4d. Indian Education System

4d.1, 4d.2

4d.3. Week Three: Ideation - Focus on Problem Area

4d.3.1. Presentation

4d.4, 4d.5

4e, 4f

- 5. Videos
- 6. Contact Details

Presentation

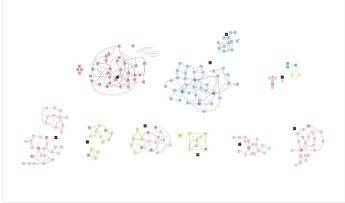
Presentation

• Indian Education System..... (1730 kb)









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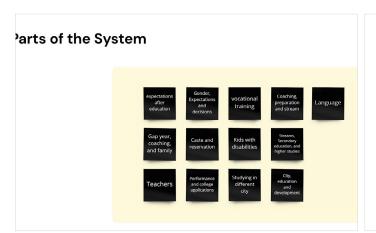
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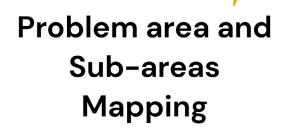
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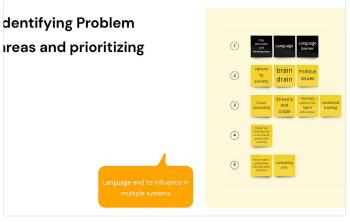
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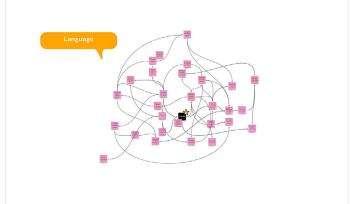
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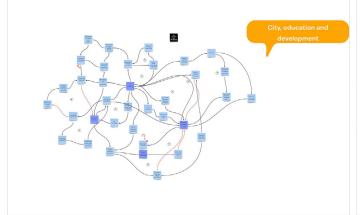
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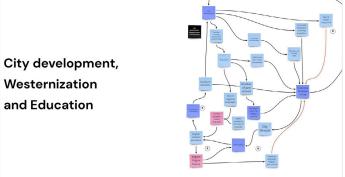












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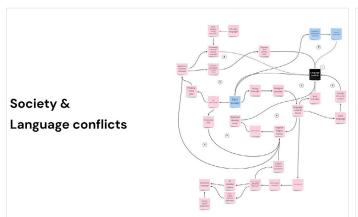
4d.3. Week Three: Ideation - Focus on Problem Area

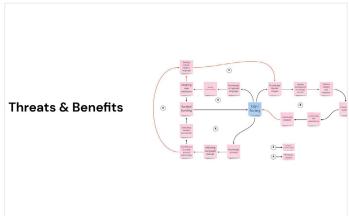
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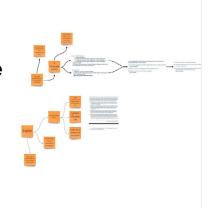


Learning a Language





3 Language policy & English



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4d.1, 4d.2

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4d.3.1. Presentation

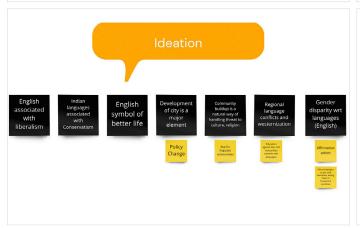
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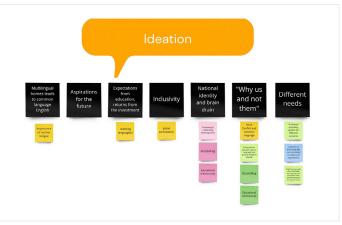
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Thank you

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Source:

https://www.dsource.in/course/systems-design-project/projects/indian-education-system/weekfour-focus-soft-prototyping

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- 4. Projects

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4d. Indian Education System 4d.1, 4d.2, 4d.3

4d.4. Week Four: Focus on Soft Prototyping
4d.4.1. Presentation

4d.5. Week Five: Presentation on Final Design Solution

4e, 4f

- 5. Videos
- 6. Contact Details

Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

a) Presentation Slides - upload it on the google classroom Week 4

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b) Project Report - upload it on the google classroom Week 4

Grading Points: 15%

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Presentation

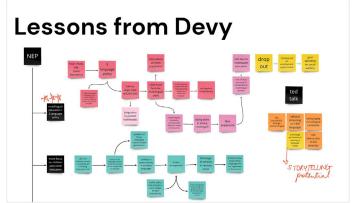
Presentation

• Indian Education System..... (2200 kb)









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4b, 4c

4d. Indian Education System

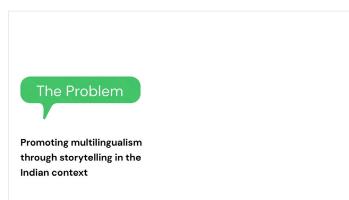
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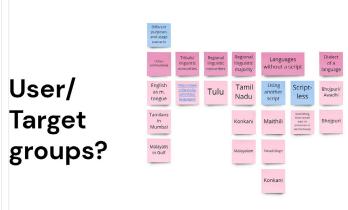
4d.4. Week Four: Focus on Soft Prototyping

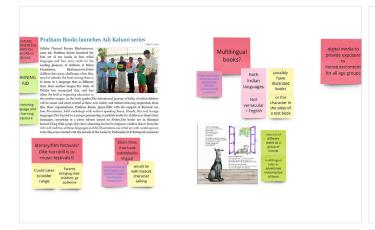
4d.4.1. Presentation

4d.5. Week Five: Presentation on Final Design Solution

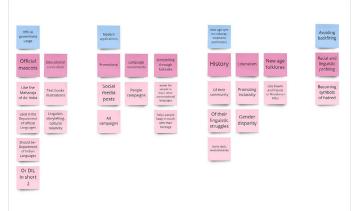
- 5. Videos
- 6. Contact Details

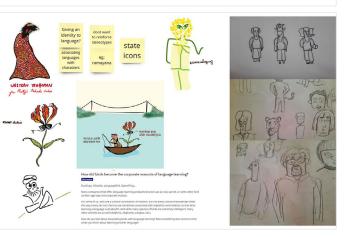












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Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

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4a. Navaaz EV Charging Solution

4b, 4c

4d. Indian Education System

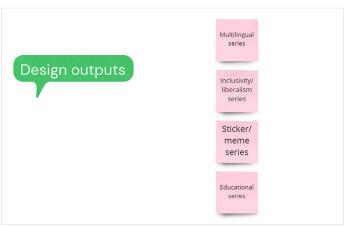
4d.1, 4d.2, 4d.3

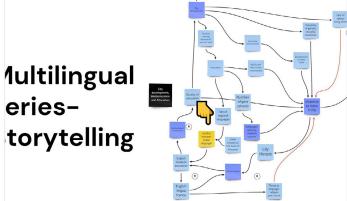
4d.4. Week Four: Focus on Soft Prototyping

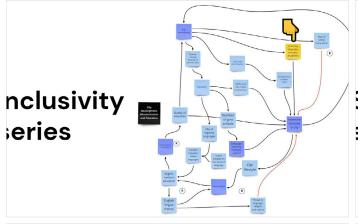
4d.4.1. Presentation

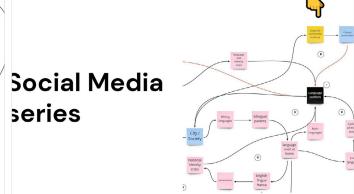
4d.5. Week Five: Presentation on Final Design Solution

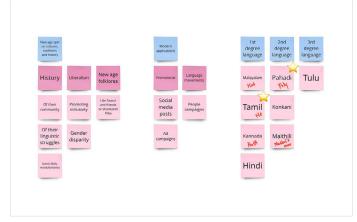
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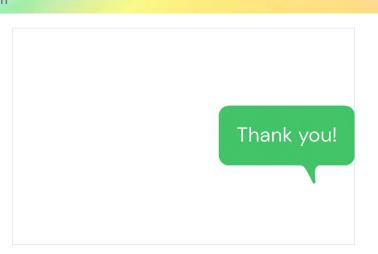
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 - 4d.4. Week Four: Focus on Soft Prototyping
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4d. Indian Education System 4d.1, 4d.2, 4d.3, 4d.4

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4d.5.1. Presentation

4d.5.2. Project Synopsis

4d.5.3. Team Placeholder

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- 5. Videos
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Week Five: Presentation on Final Design Solution

Project Report

• Indian Education System..... (4590 kb)



Presentation



Project Synopsis



Team Placeholder

Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 5 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

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4d.5.2. Project Synopsis

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Presentation:

- . Each group has to make a video of their presentations a of the 5 weeks work in about 12 mins. duration and upload this in google classroom
- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features

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4d.5.2. Project Synopsis

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- I. Final Scenario
- m. Form and Interface Development or detailing
- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

- I. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e)It would be great if you can submit a copy of your MIRO board

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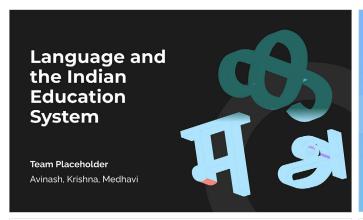
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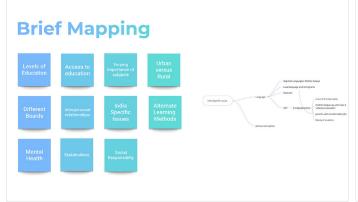
Presentation

Presentation

• Indian Education System..... (26810 kb)



Understanding the System





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4a. Navaaz EV Charging Solution 4b, 4c

4D, 4C

4d. Indian Education System

4d.1, 4d.2, 4d.3, 4d.4

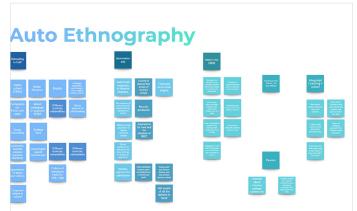
4d.5. Week Five: Presentation on Final Design Solution

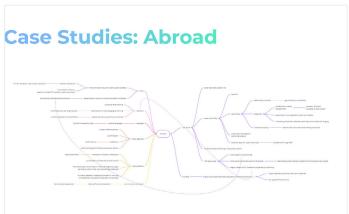
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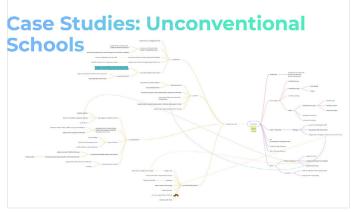
4d.5.2. Project Synopsis

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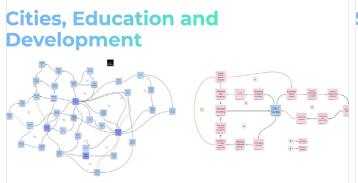
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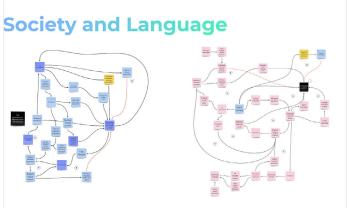
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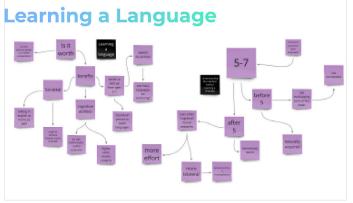
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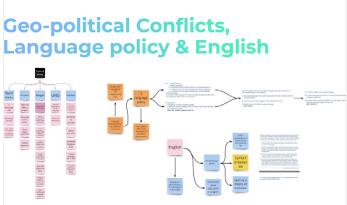
Mapping out the **System**











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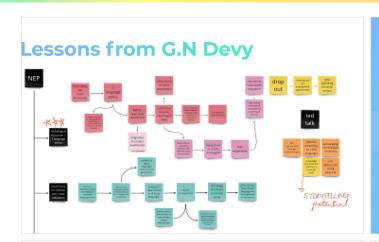
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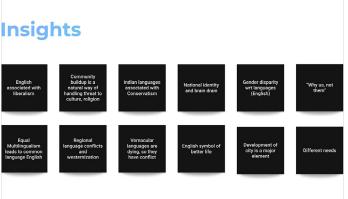
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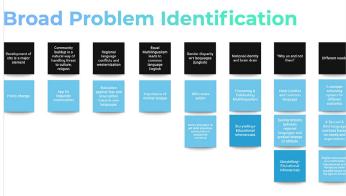
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Problems and Ideations





Target Problem

Preserving Indian languages by promoting a culture of multilingualism through storytelling in a socially conscious fashion

Final Idea

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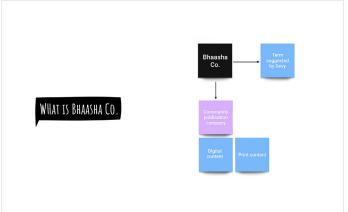
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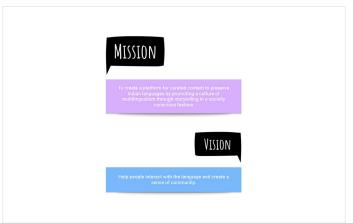
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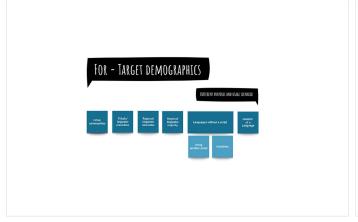
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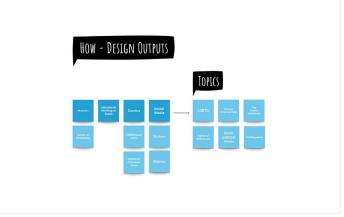












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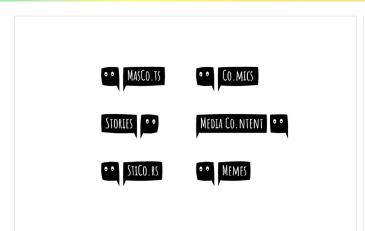
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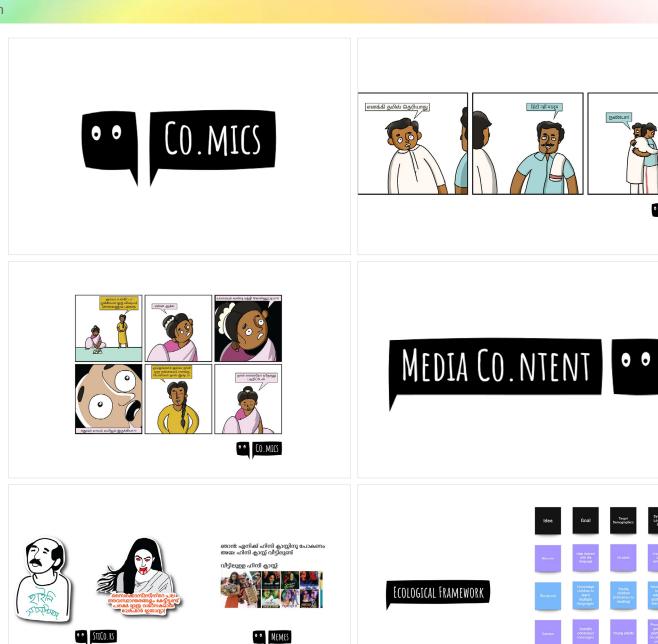
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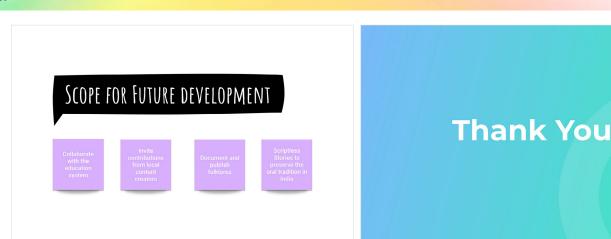
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Project Synopsis

Language and the Indian Education System

Our project began with us researching the Indian education system and interpersonal relationships. We did primary and secondary research, while also taking a look at our very different experiences in the system. We found many intervention points while mapping out the system and decided to settle on the language issue as our main topic.

With this topic in mind, we explored how language is viewed in society, its place in the education system, the conflict between linguistic communities and the art of language learning. We gained a lot of insights from this and decided to narrow down on a few target areas (promoting vernacular languages, multilingual education, keeping in touch with one's heritage and acceptance of different linguistic communities).

Keeping this in mind, we came up with Bhaasha Co., a community publication company for digital and print media. The company makes educational multilingual books to encourage young children to learn multiple vernacular languages (the books are incorporated into the education system as a learning aid), comics for young adults to promote socially conscious messages and provide a platform for young content creators from all linguistic backgrounds, and stickers and memes to generate interest towards other languages amongst social media users and popularise the use of native languages. Another intended idea of use is mascots. Their goal in our mind is to help people interact with the language and create a sense of community.

In the future, we'd aim to collaborate with the education system in full capacity, invite contributions from local content creators, document and publish folklores, and preserve the tradition of oral storytelling in scriptless communities through any intervention possible.

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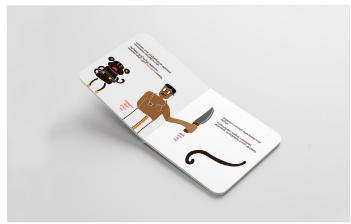
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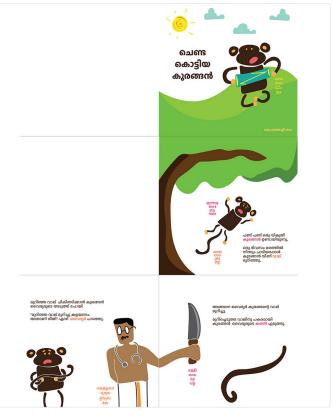
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4d. Indian Education System

4d.1, 4d.2, 4d.3, 4d.4

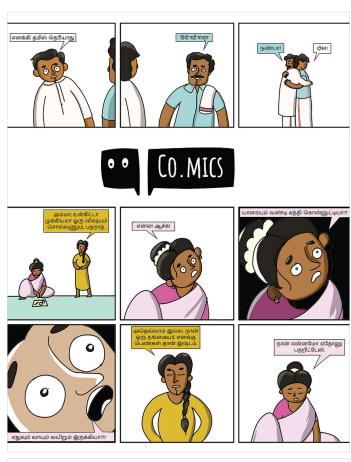
4d.5. Week Five: Presentation on Final Design Solution

4d.5.1. Presentation

4d.5.2. Project Synopsis

4d.5.3. Team Placeholder

- 5. Videos
- 6. Contact Details









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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

bу

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems

- 1. Aims of Systems Design Project
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- 4. Projects

4a, 4b, 4c, 4d

4e. Sustainable Housing Systems

- 4e.1. Week One Need Finding and understanding the Problem
- 4e.2. Week Two: Identify your Problem Area and Focus on it

4e.3, 4e.4, 4e.5

4f. Cultural Identity of Kerala

- 5. Videos
- 6. Contact Details

Sustainable Housing Systems



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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Week One - Need Finding and understanding the Problem

Project Report

• Sustainable Housing..... (1680 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage - Understanding the Problem Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon
Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback
Submission: Slide presentation + Report submission (must for grading)
Grading Points: 15%

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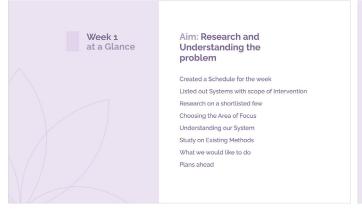
Presentation

Presentation

• Sustainable Housing..... (23810 kb)









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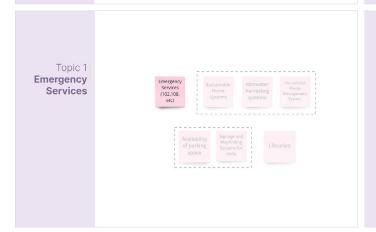
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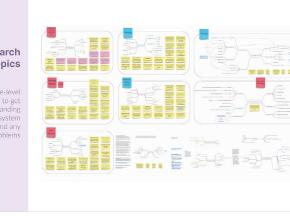
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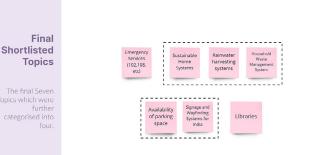
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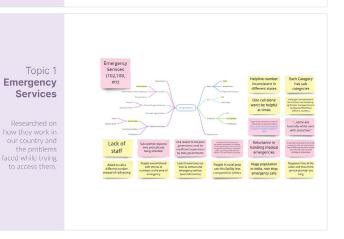












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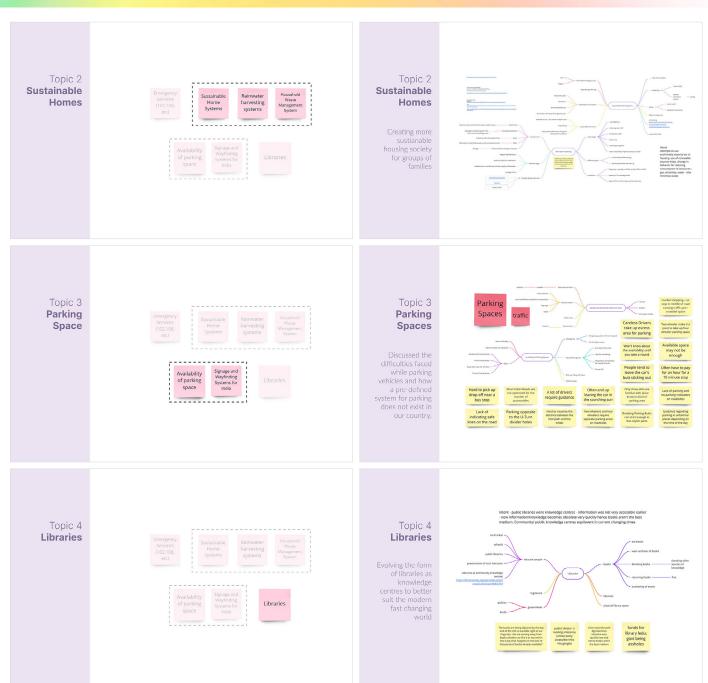
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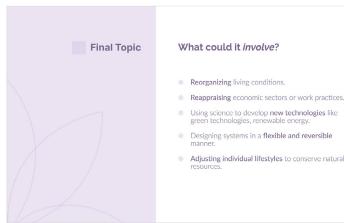
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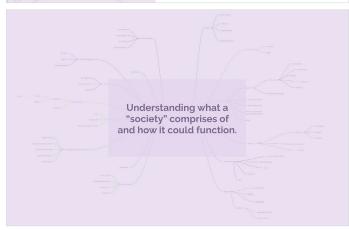
4e.2. Week Two: Identify your Problem Area and Focus on it

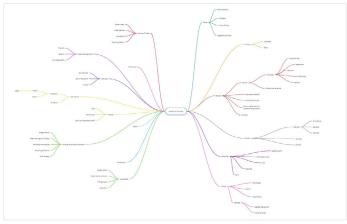
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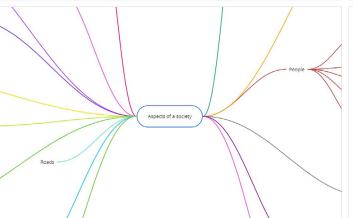
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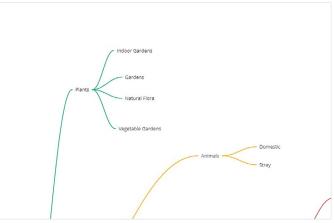












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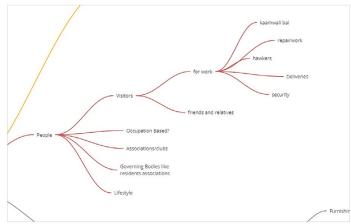
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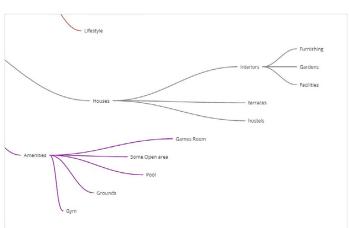
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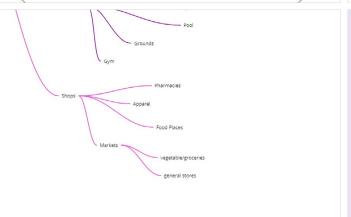
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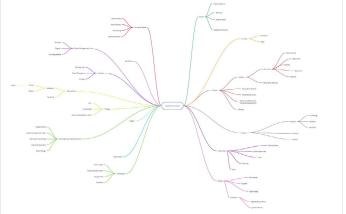
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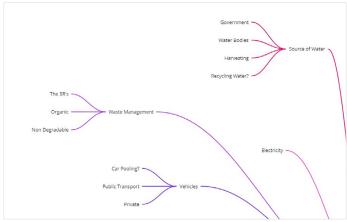












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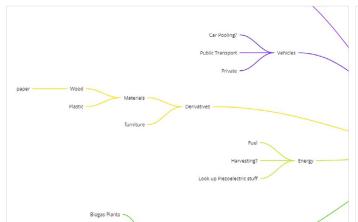
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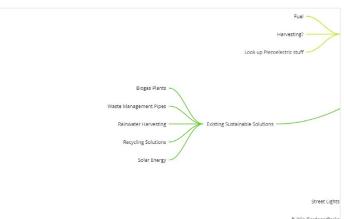
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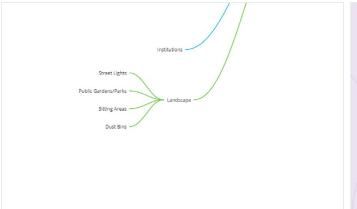
4e.3, 4e.4, 4e.5

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Questions

Or do society

How is these of

Do we design an ideal society for a better future?

Or do we suggest **improvements to an existing society** to make it more sustainable?

How is our project going to be **different** from all these existing alternatives?

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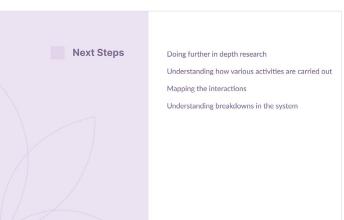
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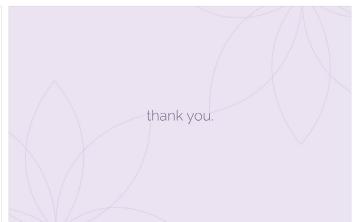
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Week Two: Identify your Problem Area and Focus on it

Project Report

• Sustainable Housing..... (3440 kb)



Presentation

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage – Understanding the Problem Presentation

Dates:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon
Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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4e.2.1. Presentation

4e.3, 4e.4, 4e.5

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Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

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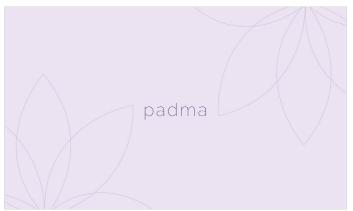
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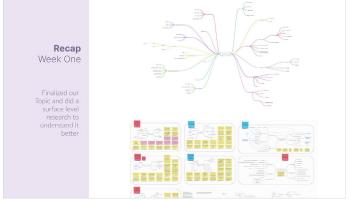
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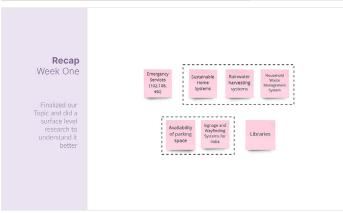
Presentation

• Sustainable Housing..... (42100 kb)









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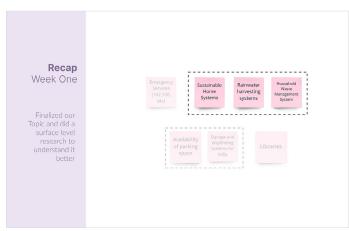
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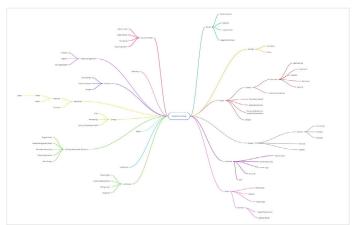
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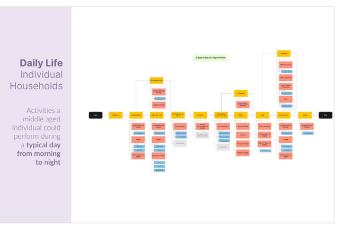
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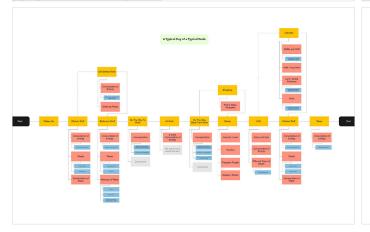
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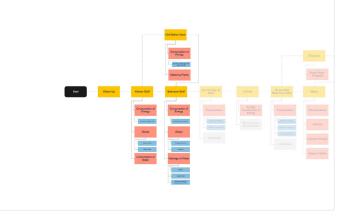












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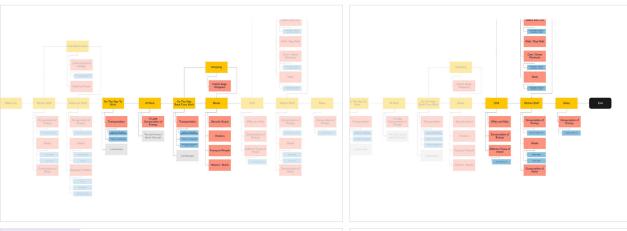
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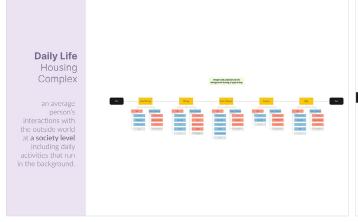
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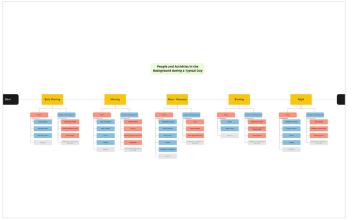
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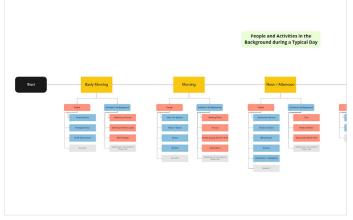
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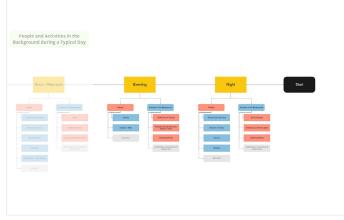
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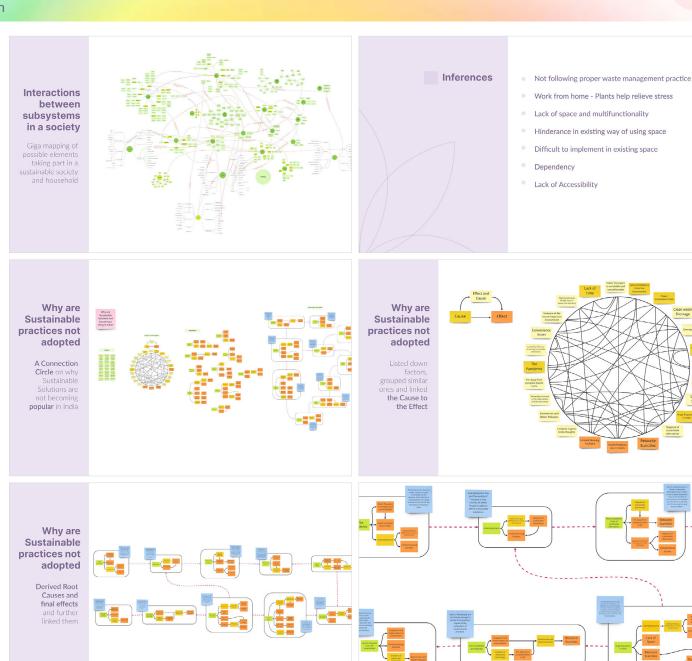
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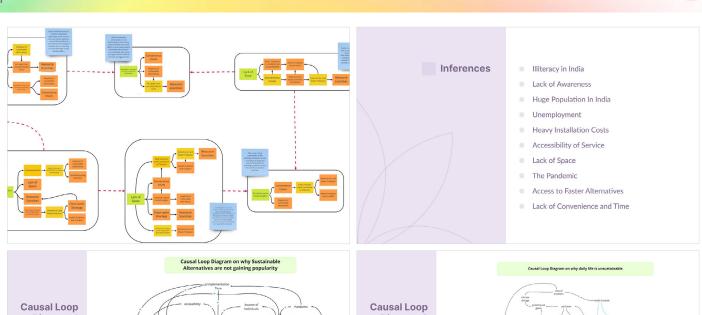
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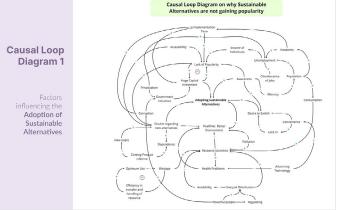
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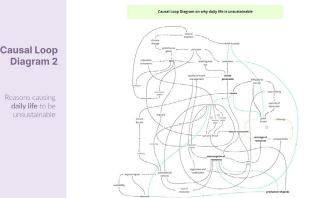
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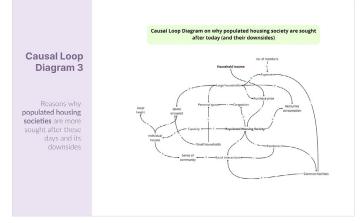
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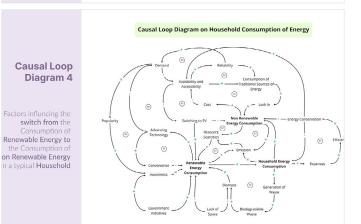
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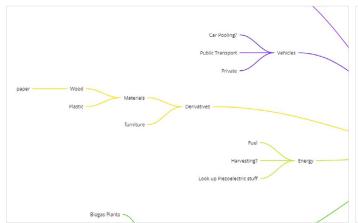
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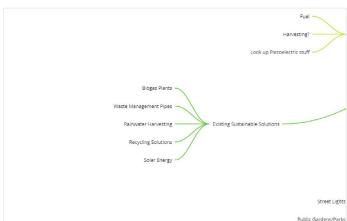
4e.1. Week One - Need Finding and understanding the Problem

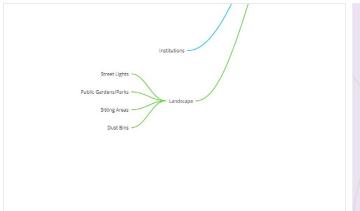
4e.2. Week Two: Identify your
Problem Area and Focus on it
4e.2.1. Presentation

4e.3, 4e.4, 4e.5

- 5. Videos
- 6. Contact Details

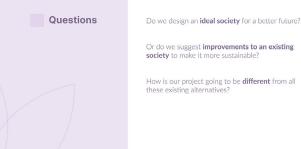












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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-two-identify-your-problem-0

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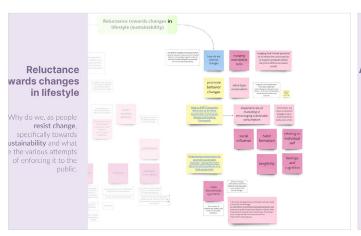
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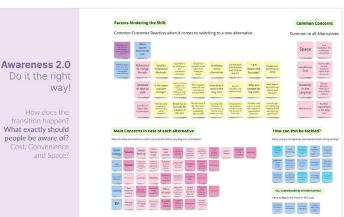
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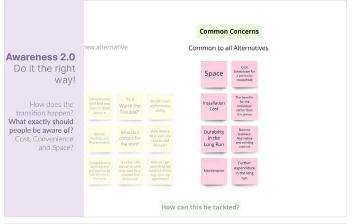
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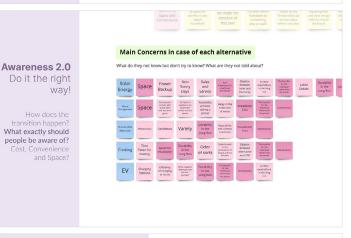
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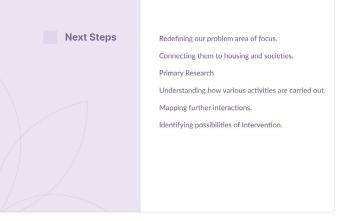












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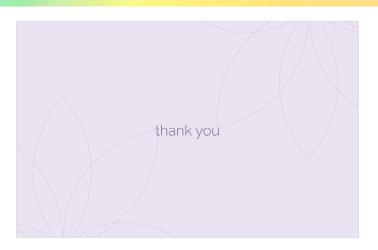
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4e.3. Week Three: Ideation - Focus on Problem Area

4e.3.1. Presentation

4e.4, 4e.5

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Week Three: Ideation - Focus on Problem Area

Project Report

• Sustainable Housing..... (4540 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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4e.3.1. Presentation

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6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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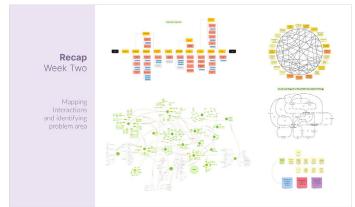
Presentation

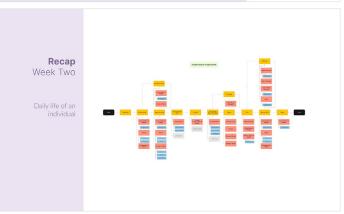
Presentation

• Sustainable Housing..... (23810 kb)









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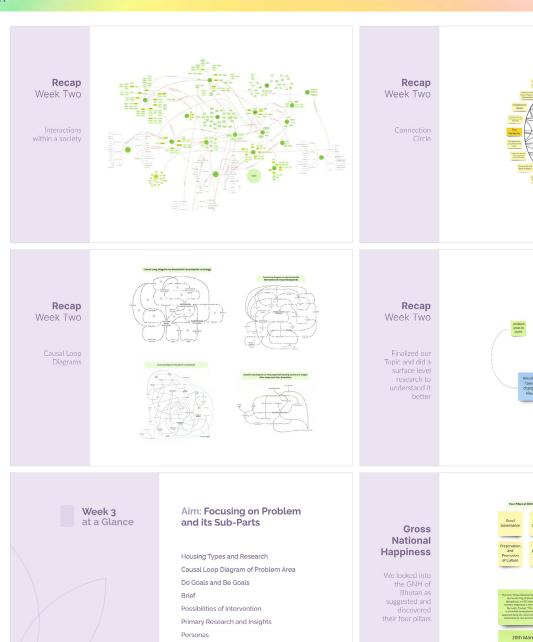
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Next Steps

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Design Course

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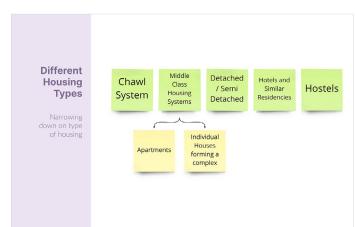
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Chawl System



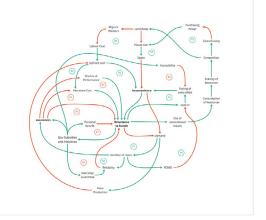
- High density of people
- Limited use of resources
- Living in harmony with animals
- Internal courtyards are a good balance of inside and outside
- Common corridor is a very interactive space
- They have no other choice
- Sharing between families
- Close to the concept of co-living



- Profit Maximising
- Little consideration for natural light and ventilation
- No inside-outside balance
- Maximising indoor living space
- Less shared spaces
- Financially in a better condition
- Have more choice

Causal Loop Diagram

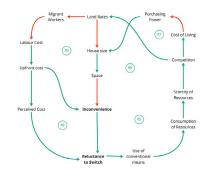
Understanding the connection between Convenience, Awareness, and Reluctance to switch





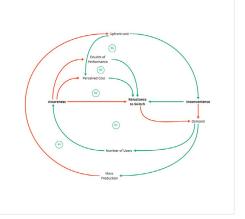
Parent Loop Diagram (1/3)

Reluctance to Switch mainly influences the vailability of resources, ost of living, space and Inconvenience.



Parent Loop Diagram(2/3)

How the three maj factors influence the demand, cost and the number of use



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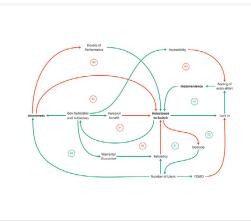
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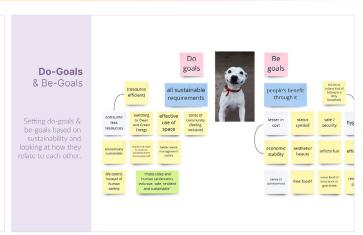
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Goal 11. Make cities and human settlements inclusive, safe, resilient and sustainable

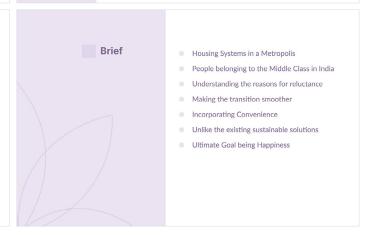
11.1 By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums

services and upgrave reams. 11.2 By 2030, provide access to safe, affordable, accessible and sustainable transport systems for all, improving road safety, notably by expanding public transport, with specia attention to the needs of those in vulnerable situations, women, children, persons with disabilities and older persons.

- 11.3 By 2030, enhance inclusive and sustainable urbanization and capacity for participatory, integrated and sustainable human settlement planning and management in all countries
- 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage 11.5 By 2020s, significantly reduce the number of deaths and the number of people affected and substantially decrease the direct economic losses relative to global gross domestic product caused by disasters, including water-related disasters, with a focus on
- protecting the poor and people in vulnerable situations
 11.6 by 2030, reduce the adverse per capita environmental impact of cities, including by
 paying special attention to air qualify and municipal and other waste management
 11.7 by 2030, provide universal access to safe, inclusive and accessible, green and publis
- spaces, in particular for women and children, older persons and persons with disabilities 11.a Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning 11.b 8y 2020, substantially increase the number of cities and human settlements adopting
- 11.b By 2020, substantially increase the number of cities and human settlements adopting and implementing integrated policies and plans towards inclusion; resource efficiency, mitigation and adaptation to climate change, resilence to disasters, and develop and implement, in line with the Sendal Framework for Disaster Risk Reduction 2015-2030, holistic disaster in Amanagement at all levels
- 11.c Support least developed countries, including through financial and technical assistance, in building sustainable and resilient buildings utilizing local materials







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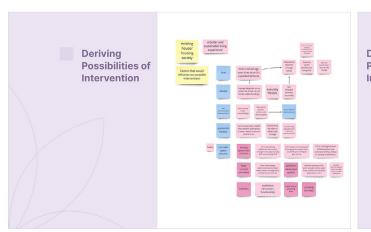
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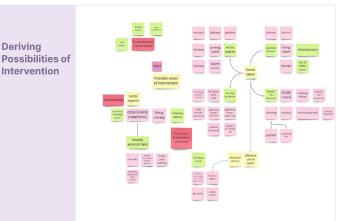
4e.3. Week Three: Ideation - Focus on Problem Area

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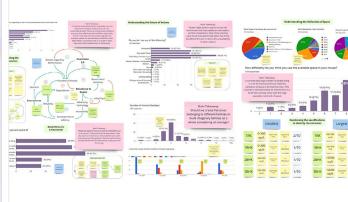
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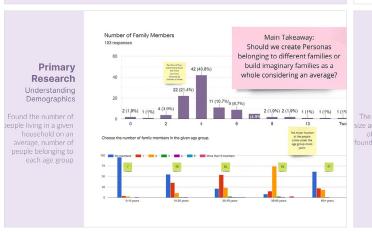
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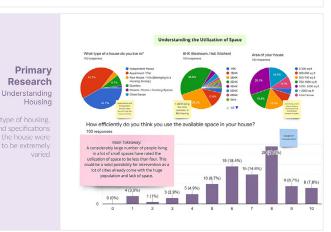












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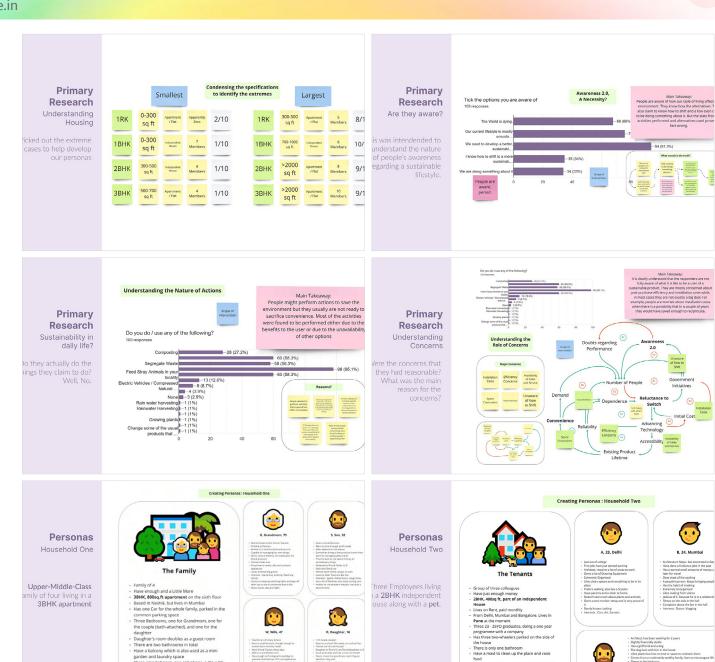
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Three smartphones, one cell phone, an old TV

microwave for the whole house

Three smartphones, one cell phone, a TV, a PC.

a WM, a refrigerator and a microwave for the

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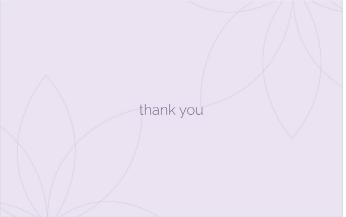
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https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-four-focus-soft-prototyping

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4e.1, 4e.2, 4e.3

4e.4. Week Four: Focus on Soft Prototyping

4e.4.1. Presentation

4e.5. Week Five: Presentation on Final Design Solution

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Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

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- a) Presentation Slides upload it on the google classroom Week 4
- b) Project Report upload it on the google classroom Week 4

Grading Points: 15%

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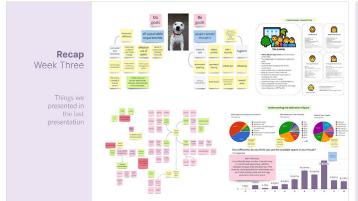
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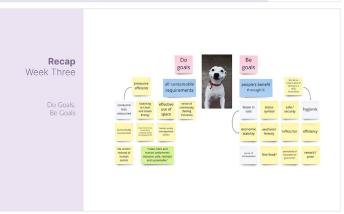
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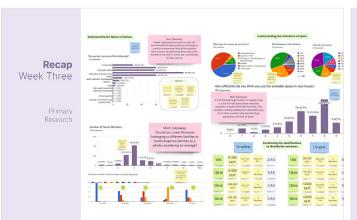
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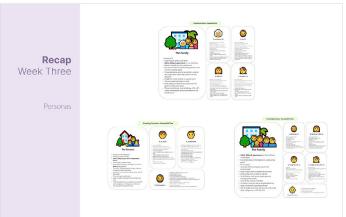
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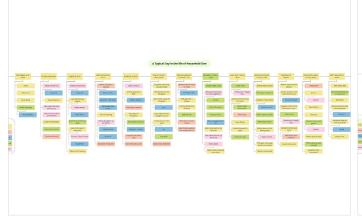
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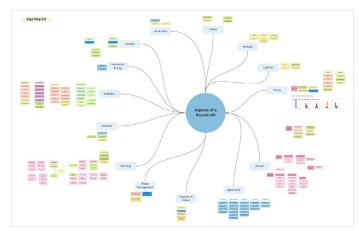
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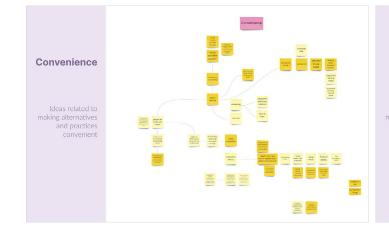
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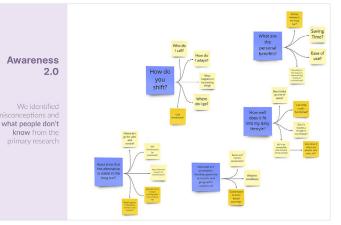




Promoting the **Adoption** of Sustainable Alternatives by tackling problems of **inconvenience**, **awareness** and **reluctance** Preliminary Ideation

Ideation based on factors related to convenience, how-to awareness and reluctance





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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-four-focus-soft-0

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4a, 4b, 4c, 4d

4e. Sustainable Housing Systems

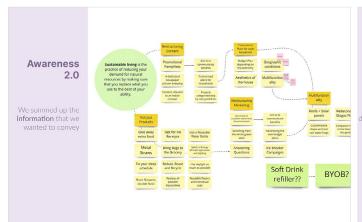
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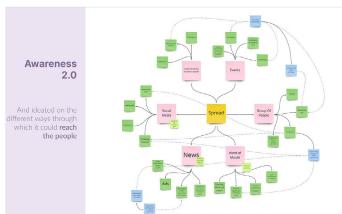
4e.4. Week Four: Focus on Soft Prototyping

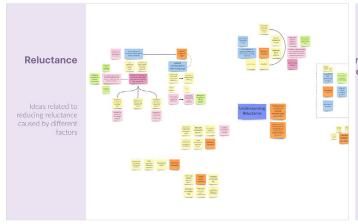
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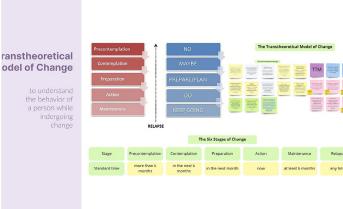
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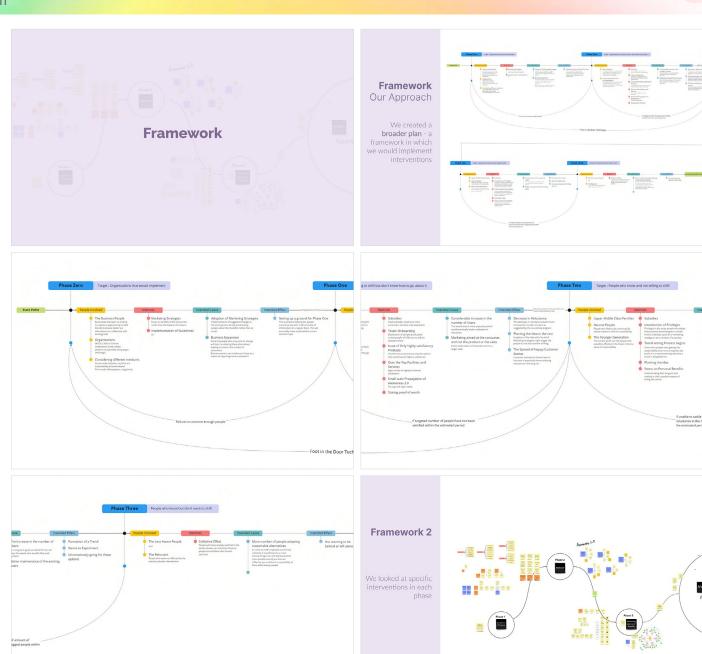
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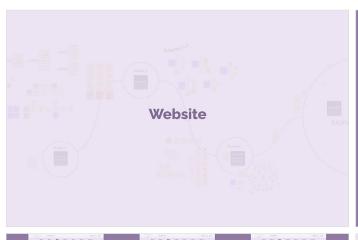
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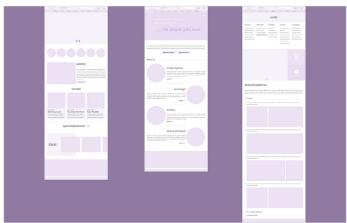
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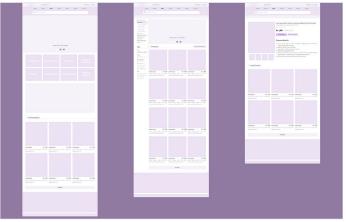
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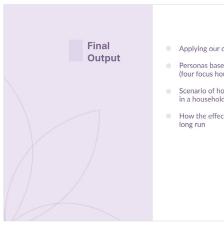
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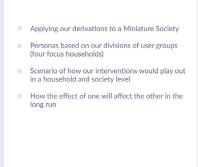
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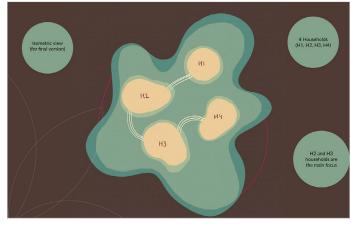


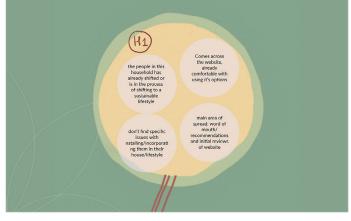












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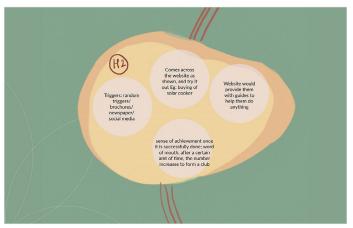
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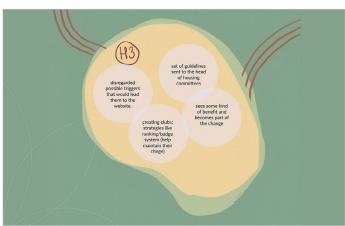
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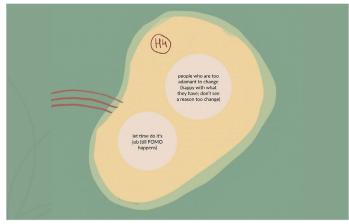
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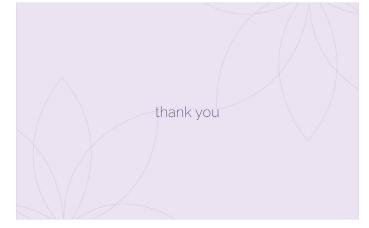
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Week Five: Presentation on Final Design Solution

Project Report

• Sustainable Housing..... (23540 kb)

Guidelines and Form

• Sustainable Housing..... (3550 kb)

Miro Board

Link:- https://miro.com/app/board/o9J IHEJRIO=/



Presentation



Infographic



Project Synopsis



Vide

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Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 5 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

Presentation:

- . Each group has to make a video of their presentations a of the 5 weeks work in about 12 mins. duration and upload this in google classroom
- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

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Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features
- I. Final Scenario
- m. Form and Interface Development or detailing
- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

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- l. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e)It would be great if you can submit a copy of your MIRO board

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Presentation

Presentation

• Sustainable Housing..... (64130 kb)









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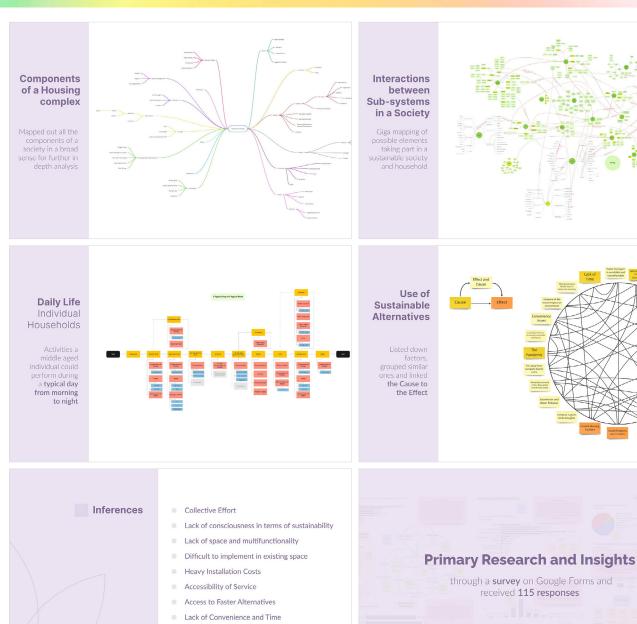
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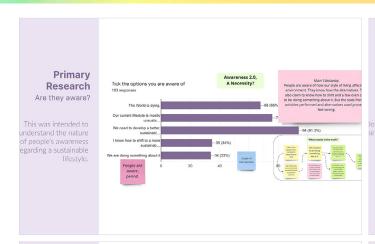
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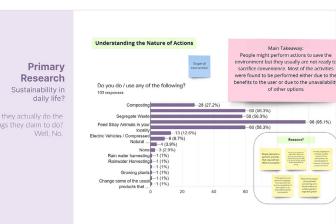
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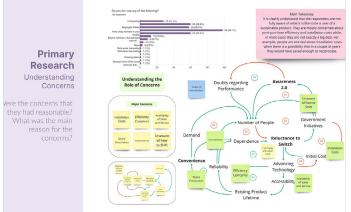
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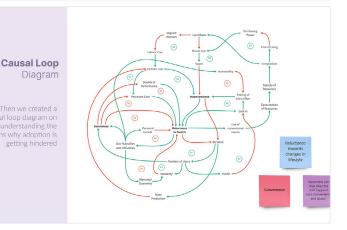




Problem Area

Using all the insights found from our mappings we focused on a problem





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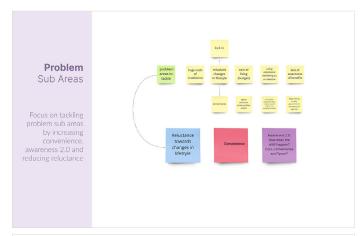
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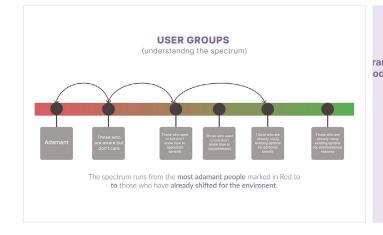
Problem Statement

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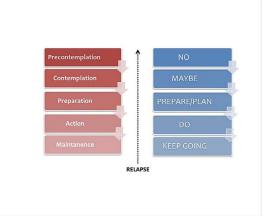
CORE PROPOSITION

Our aim is to have a timeline based approach to make the transition from our current lifetyle to incorporating sustainable practices and options, while tackling issues of possible reluctance and enabling awareness on a society level.









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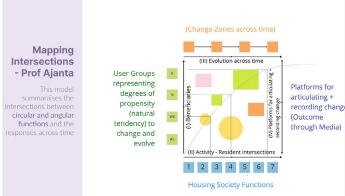
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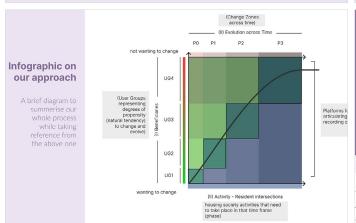
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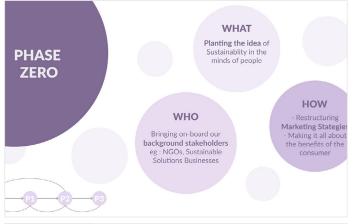
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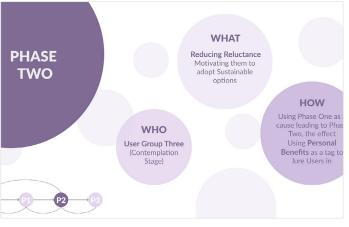












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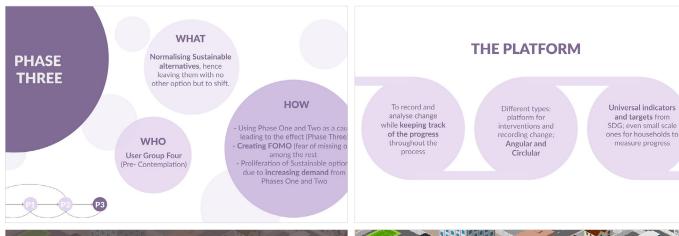
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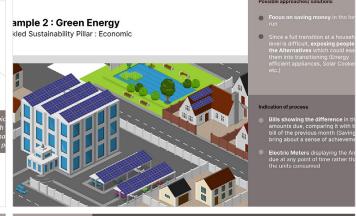
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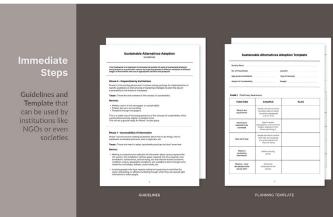
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Evaluation

For evaluation we presented our Approach to the Council Members of the three different housing societies that we belong to and received valuable insights.

- The approach is quite unique and seems viable
- How do you sustain it in the long run? What if people lose interest?
- The Maintenance aspect of the sustainable practices in daily lifestyle needs more work.
- The maintenance sounds like the maintenance of an appliance and not behavioral maintenance for some reason
- One of the council members liked the idea of planting two trees a year and has considered taking it up as part of the society:)



We would be working on the feedback that we received from the Residents' Association Memebers and the feeback that we receive on Thursday (29/05/2021).

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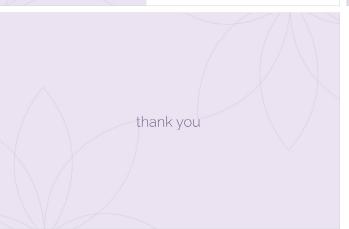
4e.5.3. Infographic

4e.5.4. Video

4f. Cultural Identity of Kerala

- 5. Videos
- 6. Contact Details





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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

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Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-five-presentation-final-1

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d

4e. Sustainable Housing Systems

4e.1, 4e.2, 4e.3, 4e.4

4e.5. Week Five: Presentation on

Final Design Solution

4e.5.1. Presentation

4e.5.2. Project Synopsis

4e.5.3. Infographic

4e.5.4. Video

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Project Synopsis

We looked at our project area from a macro perspective and identified all the components, systems and subsystems involved in a housing complex. Secondary research was done on each of them as well as existing approaches and alternatives. Primary research was done to understand the people's perspective and get realistic insights about a middle class Indian's way of living in a metropolitan city.

Preliminary analysis inferred that there are enough sustainable alternatives available but the real issue is people not implementing them into their lifestyle. From deeper analysis of research and causal loop diagrams pertaining to adoption of sustainable alternatives emerged our problem sub-areas: reluctance among people due to various reasons and lack of awareness on a society level.

Our solution is a timeline based framework that NGOs or housing societies can use to increase the number of users of sustainable products and practices in a systematic manner. It focuses on people willingly accepting the change rather than forcing something upon them. Society consists of a spectrum of different kinds of people with different mindsets and they all have varying degrees of reluctance which can be correlated to the transtheoretical model that tells about the six stages a person goes through when undergoing change. We categorised our users based on that.

The framework consists of four phases, each targeting a different user group such that people can ease in with the passage of time. To facilitate this process, we have come up with certain sets of guidelines for each phase, a template that people can use to plan, and have visualised the transition over a period of time through a miniature society that we had created for ease of understanding. We have stated examples, possible approaches in each case and the indicators that could be used to prove that the change is happening.

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Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-five-presentation-final-2

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d

4e. Sustainable Housing Systems

4e.1, 4e.2, 4e.3, 4e.4

4e.5. Week Five: Presentation on

Final Design Solution

4e.5.1. Presentation

4e.5.2. Project Synopsis

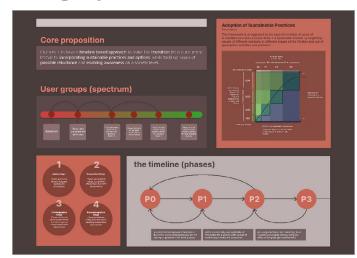
4e.5.3. Infographic

4e.5.4. Video

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Infographic







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4a, 4b, 4c, 4d

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4e.1, 4e.2, 4e.3, 4e.4

4e.5. Week Five: Presentation on

Final Design Solution

4e.5.1. Presentation

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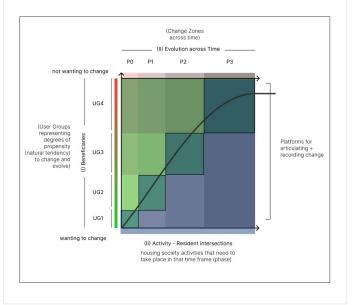




Adoption of Sustainable Practices

Framework

This framework is an approach to increase the number of users of sustainable products and practices in a systematic manner by targetting people of different mindsets at different stages of the timeline and use of appropriate activities and products.



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Source:

https://www.dsource.in/course/systems-design-project/projects/sustainable-housing-systems/week-five-presentation-final-3

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d

4e. Sustainable Housing Systems

4e.1, 4e.2, 4e.3, 4e.4

4e.5. Week Five: Presentation on

Final Design Solution

4e.5.1. Presentation

4e.5.2. Project Synopsis

4e.5.3. Infographic

4e.5.4. Video

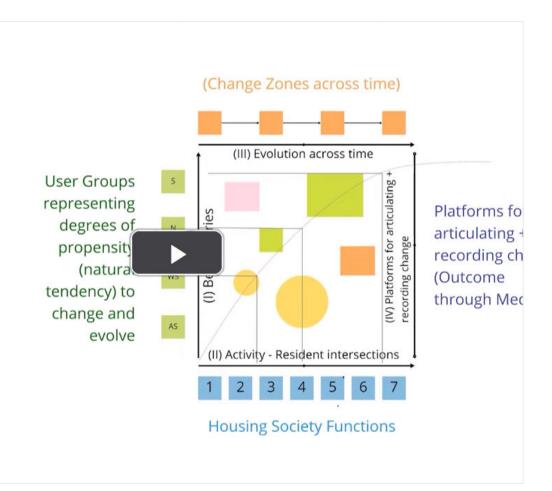
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Video

Mapping ntersections - Prof Ajanta

This model summaraises the rsections between ircular and angular functions and the bonses across time



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- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

- 4f.1. Week One Need Finding and understanding the Problem
- 4f.2. Week Two: Identify your Problem Area and Focus on it
- 4f.3. Week Three: Ideation Focus on Problem Area

4f.4, 4f.5

- 5. Videos
- 6. Contact Details

Cultural Identity of Kerala



Week One - Need Finding and understanding the Problem



Week Two: Identify your Problem Area and Focus on it



Week Three: Ideation - Focus on Problem Area



Week Four: Focus on Soft Prototyping



Week Five: Presentation on Final Design Solution

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- 1. Aims of Systems Design Project
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- 3. Problem Statement
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4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem

4f.1.1. Presentation

4f.2. Week Two: Identify your Problem Area and Focus on it

4f.3. Week Three: Ideation - Focus on Problem Area

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Week One - Need Finding and understanding the Problem

Project Report

• Cultural Identity of Kerala..... [2] (9120 kb)



Presentation

Week One: Need Finding and understanding the Problem

- Form Working Groups
- Selection/Identification of System Design Problem (Why, how, whom, where, when)
- Worldview Mappings (Brainstorming, Card Sorting, Affinities, Network Maps) Broader Perspective
- Secondary Research Understanding Problem Design/Media/Technology Search Existing Solutions History
- Future Study Papers etc.
- Identify User Groups Understanding User Needs Talking to Experts Primary Research (Contextual Inquiry)
- Next Steps

End of Week One: 1st Stage – Understanding the Problem Presentation

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

Grading Points: 15%

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Source:

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- 1. Aims of Systems Design Project
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- 4. Projects

4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem
4f.1.1. Presentation

4f.2. Week Two: Identify your Problem Area and Focus on it

4f.3. Week Three: Ideation - Focus on Problem Area

4f.4, 4f.5

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- 6. Contact Details

Presentation

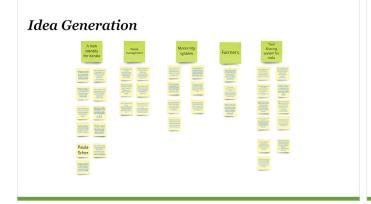
Presentation

• Cultural Identity of Kerala..... (42030 kb)



Aim

Research, understand, visualize, synthesize and design for problems from socio-economic-cultural-political-technology-sustainability perspective that are complex, uncertain, interconnected and form a system within defined boundaries.



Problem Space

Kerala is a land of cultural diversity, a complete whole made up of a blending of various religions, communities, regional cultures and dialects united through its common love for Sadhya and biriyani, Onam eid and christmas, Mammooty and Mohanalal.

Our objective is to create a system of coherent visual identity encompassing all of Kerala's diversity.

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Source:

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- 1. Aims of Systems Design Project
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- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem
4f.1.1. Presentation

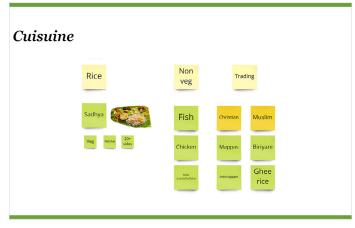
4f.2. Week Two: Identify your Problem Area and Focus on it

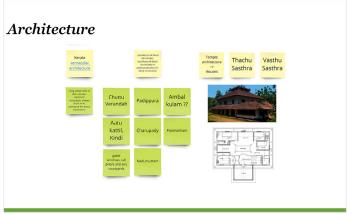
4f.3. Week Three: Ideation - Focus on Problem Area

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4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem
4f.1.1. Presentation

4f.2. Week Two: Identify your Problem Area and Focus on it

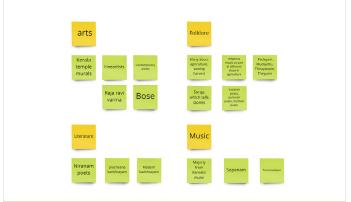
4f.3. Week Three: Ideation - Focus on Problem Area

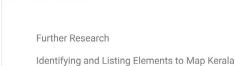
4f.4, 4f.5

- 5. Videos
- 6. Contact Details









Whats next?

Understading Individual and Collective Perspectives

Finding Areas of Intervention



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Source:

https://www.dsource.in/course/systems-design-project/projects/cultural-identity-kerala/week-two-identify-your-problem-area

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
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4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem

4f.2. Week Two: Identify your
Problem Area and Focus on it
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4f.3, 4f.4, 4f.5

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- 6. Contact Details

Week Two: Identify your Problem Area and Focus on it

Project Report

• Cultural Identity of Kerala..... (20340 kb)



Presentation

Tresentatio

Week Two: Identify your Problem Area and Focus on it + Report + Presentation

- Till now you have looked at a broader perspective of your problem area and you have looked at cross connections as well as inter-connectedness at a macro level
- Within this broader area now you need to find an area to work keeping the broader connections in mind
- Some of the tools that might be help in terms of understanding are Causal Diagrams, Network Mappings, Assigning Priority and Hierarchy, Looking at it from temporal and spatial perspective (activity flow diagrams)
- Do go ahead with both the secondary as well as primary research
- Start with Analysis of the Problem
- Identify the next steps

End of Week Two: 2nd Stage – Understanding the Problem Presentation

Dates:

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

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4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1. Week One - Need Finding and understanding the Problem

4f.2. Week Two: Identify your Problem Area and Focus on it 4f.2.1. Presentation

4f.3, 4f.4, 4f.5

- 5. Videos
- 6. Contact Details

Submission:

Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 2
- b) Project Report upload it on the google classroom Week 2

Grading Points: 15%

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4f. Cultural Identity of Kerala

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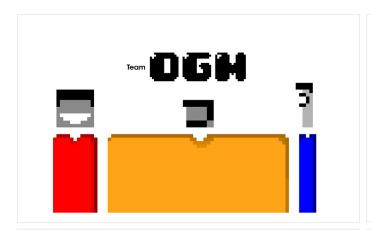
4f.3, 4f.4, 4f.5

- 5. Videos
- 6. Contact Details

Presentation

Presentation

• Cultural Identity of Kerala..... (2950 kb)



Contents

- Problem Statement
- System Map and Connections
- ♦ Stakeholding Elements
- ♦ Cause and Effect Mapping
- ♦ User Perspective
- Existing Visual Identities
- Focus Areas
- ♦ What's Next?
- ♦ References

Problem Statement

To create a system of coherent visual identity encompassing all of Kerala's diversity.

System Map and Connections

- ♦ Further Exploration into each topic
- ♦ Finding the connection between various different sectors
- Identifying the major areas based on the connections

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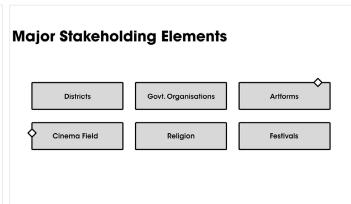
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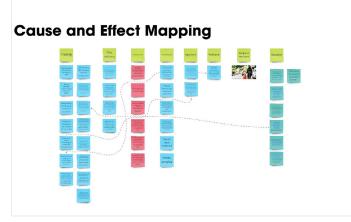
4f.2. Week Two: Identify your
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4f.2.1. Presentation

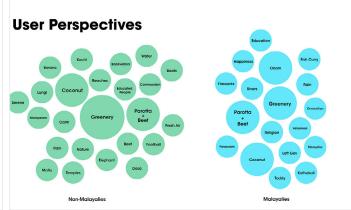
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4f.2.1. Presentation

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- 6. Contact Details



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Malayalam Alphabets

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Focus Areas



What's Next?

- Understanding the selected focus areas
- ♦ Identifying Pro-Cons of slected topics
- Identyfying Sub Systems of the focused area
- ♦ Identifying Existing Visual Identities
- ♦ Conducting field study if possible

References

https://www.tyndisheritage.com/indian-history/kerala-maritime-history

 $https://en.wikipedia.org/wiki/Communism_in_Kerala#:~:text=The\%20left\%20wing\%20met\%20in,1959\%20following\%20the\%20Vimochana\%20Samaram.$

https://www.newindianexpress.com/nation/2019/oct/17/100-years-and-still-a-vital-force-viewing-the-left-from-the-shores-of-kerala-2049004.html

http://www.kerenvis.nic.in/Home.aspx

https://en.m.wikipedia.org/wiki/Category:Sportspeople_from_Keralc

https://kerala.gov.in/

 $https://en.wikipedia.org/wiki/Malayalam_cinema\#:\sim text=Malayalam\%20cinema\%20ls\%20lhe\%20lndian_portmanteau\%20of\%20Malayalam\%20and\%20ollywood).$

http://www.moviewood.net/malayalam-movie/history.pl

https://www.livehistoryindia.com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-13th-bce-2nd-com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-world-12000-

https://www.livehistoryindia.com/history-of-india-2000-years/2020/03/14/kerala-al-lhe-crossroads-of-lhe-world-13th-bce-2nd-c

https://www.muzirisheritage.org/how-to-reach.pl

https://www.kochimuzirisbiennale.or

 $https://www.cppr.in/wp-content/uploads/2016/11/A-Stagnant-Agriculture-in-Kerala_The-Role-of-the-State-agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Agriculture-in-Kerala_The-Role-of-the-Ag$

https://www.thenewsminute.com/article/kerala%25E2%2580%2599s-agriculture-brink-collapse-will-communism-loving-state-wake



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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/cultural-identity-kerala/week-three-ideation-focus-problem

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- 3. Problem Statement
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4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1, 4f.2

4f.3. Week Three: Ideation - Focus on Problem Area

4f.3.1. Presentation

4f.4. Week Four: Focus on Soft Prototyping

4f.5. Week Five: Presentation on Final Design Solution

- 5. Videos
- 6. Contact Details

Week Three: Ideation - Focus on Problem Area

Project Report

• Cultural Identity of Kerala..... (23230 kb)



Presentation

Week Three: Focus on Problem Area & Sub-Areas + Insights + Opportunities + Ideation + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Within the focused problem area now you need to identify sub-areas to work keeping the broader connections in mind
- 2. I'm sure you have by now done the causal diagrams of your problem Area and its sub- Areas (or sub-systems) with its interconnections both in the forward (progressive) and backward (negative) directions. identify if there are any delays in these connections. Do not miss the big picture and do see if you can gain insights from this mapping analysis.
- 3. Also by now your primary and secondary research in the chosen focused area should give you insights/observations and point towards design opportunities
- 4. If you would like, this is a good time to redefine your problem statement
- 5. And start with ideation to solve problems concerning your sub-areas (for this you'll need to Brainstorm + Group Ideation + Fast Visualisations/sketching)
- 5. You could start with Concept maps or Network diagrams of your ideas by connecting parts of your proposed system to people, activities, objects, spaces and time

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4f.3.1. Presentation

4f.4. Week Four Focus on Soft

Prototyping

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6. The ideation could also be through scenarios

End of Week Three: 3rd Stage - Ideation Presentation

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

- a) Presentation Slides upload it on the google classroom Week 3
- b) Project Report upload it on the google classroom Week 3

Grading Points: 15%

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Source:

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4f.1, 4f.2

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4f.3.1. Presentation

4f.4. Week Four: Focus on Soft **Prototyping**

4f.5. Week Five: Presentation on **Final Design Solution**

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- 6. Contact Details

Presentation

Presentation

• Cultural Identity of Kerala..... (13280 kb)



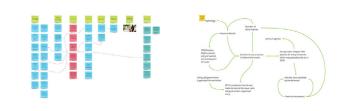
Content

- Shaky Start

- Causal Loops Diagram
- Cultural Exchange
- Insights from Causal Diagram
- Primary Research
- Design Opportunities
- Preliminary Ideas

Shaky Start

- Stuck with Visual Identity
- Unable to create proper Causal diagrams
- Shifted focus to Known issues and controversies



New Avenues

- Kerala as an entity in the south west of India.
- O Disecting kerala based on time and space
- Understanding the exchange of culture In kerala
 - · trade (spice route)
 - migrating for job
- Understand the impact of globalisation to the culture of kerala.
- The impact of cultural loss.

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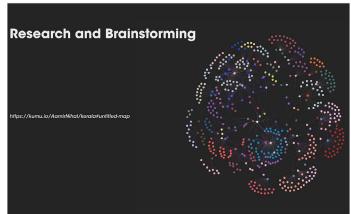
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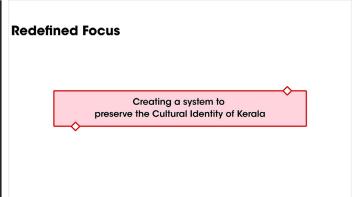
4f.3.1. Presentation

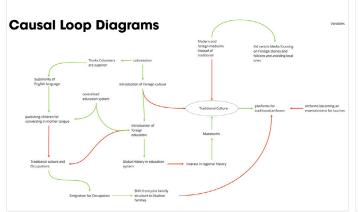
4f.4. Week Four: Focus on Soft Prototyping

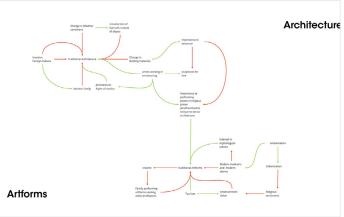
4f.5. Week Five: Presentation on Final Design Solution

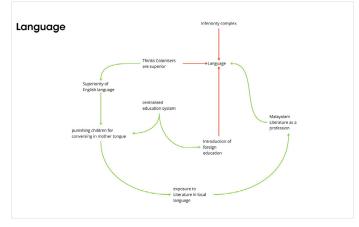
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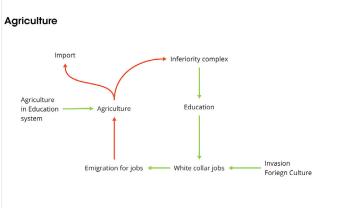












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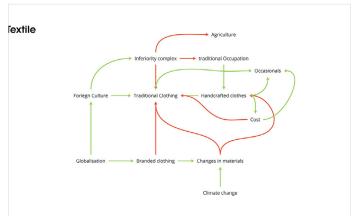
4f.4. Week Four: Focus on Soft

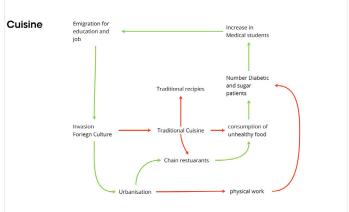
Prototyping

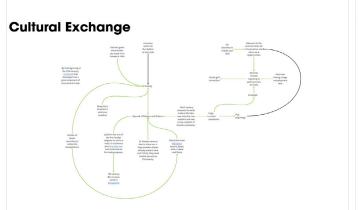
4f.5. Week Five: Presentation on

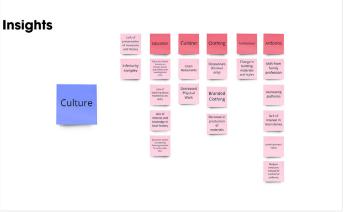
Final Design Solution

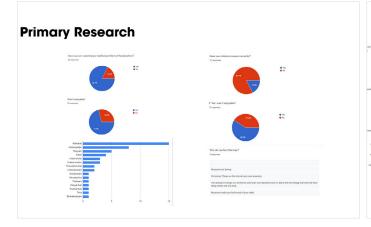
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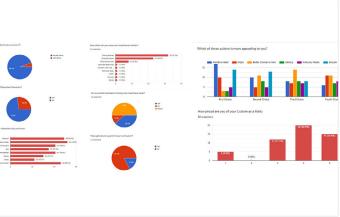












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Design Opportunities

- Low Interest in Regional History
- Stale and overdone Stories
- Tourism
- Invasive Foreign Culture and inferiority complex
- Malayali Pride

Preliminary Ideation

- Tourism Package story line
- Revamping mythological stories
- Artforms in Mixed Media
- Creating New Artform for the 21st century?



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Week Four: Focus on Soft Prototyping



Presentation

Week Four: Focus on Soft Prototyping to Final Prototyping + Report + Presentation

Suggested next steps: (you could follow your own method)

- 1. Choose your final concept from ideations for the solution to your system design problem area
- 2. You could use any of the methods that you are familiar with for prototyping: to name a few: Walk-through Scenarios, Concept Videos, Personas, Mock-ups, Proof of Concept, etc.
- 3. The final concept could involve any of the following:
- 2D/3D design Sketches + Physical Prototyping + Visualisation + Virtual 3D Models
- Interface/Communication/Media Design Detailing + Interface/Communication Simulation + Experience Design
- + Service Blueprints and design
- 4. Do give thoughts on the Final Prototyping
- 5. How would you get feedback on your solution? Will you try to evaluate?

End of Week Four: 4th Stage - Prototype Presentation

Due Date:

Presentation Schedule: 2.30pm to 5.30pm Monday afternoon

Timings for each presentation: 10 mins + 8 minutes for Discussions and Feedback

Submission: Slide presentation + Report submission (must for grading)

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Grading Points: 15%

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Source:

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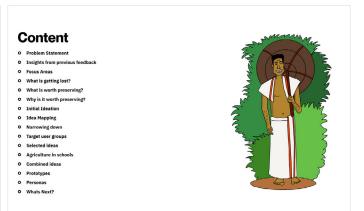
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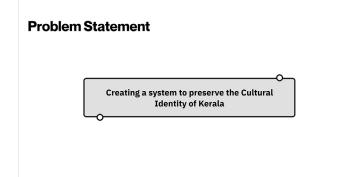
Presentation

Presentation

• Cultural Identity of Kerala..... (24080 kb)







Insights from previous feedback

- Brainstorming on Cultural loss and preservation
- What is worth preserving and why?
- Focus on one user group
- What do malayalees cherish as their identities?
- · How to bring an interactive solution to this?

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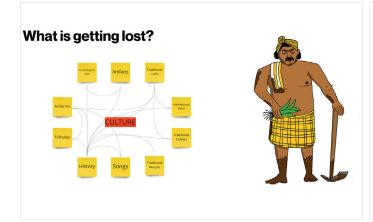




Focus area Services Services Services Services French French

Target User Group

- o Malayalees below age 16
- Younger generation have a skewed view or understanding of the states culture
- O Preservation of a culture requires respect towards the culture
- O Cultivating this culture from a younger age





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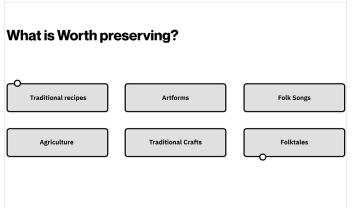
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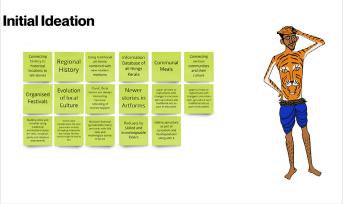
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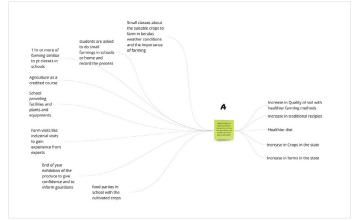
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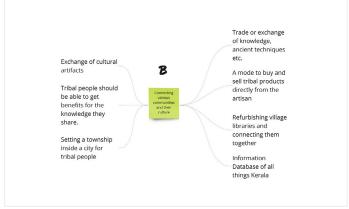












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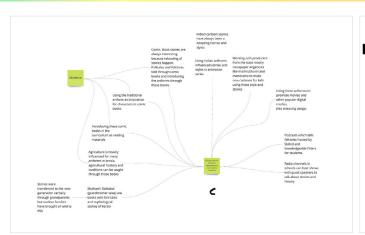
on Problem Area

4f.4. Week Four: Focus on Soft **Prototyping**

4f.4.1. Presentation

4f.5. Week Five: Presentation on **Final Design Solution**

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Narrowing Down

	A	В	С
Impact	1	3	2
Reach	2	1	3
Cultural Value	1	3	2
Execution Ability	2	1	3
Ease of Adoptation	2	1	3
Ease of Adoptation	2	1	С
Final Score	11	10	15

Selected Ideas

- O Using traditional Art combined with new modern mediums
- Graphic novel
- Podcast
- Animated series
- O Implemeting these mediums in schools
- Connection with Agriculture and traditional recipes

Agriculture in Schools

Agriculture as a Graded subject in the current school system

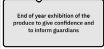
2 hr of farming theory and practical classes every week

Classes about the suitable crops to farm in Keralas weather conditions farming techniques

School provides facilities, plants and equipment to practice at school and at home.

Students are asked to do small farmings in schools or home and record the process.

Farm visits like industrial visits



Government providing resource

for schools to implement

agriculture in the school system

Food parties in school with the cultivated crops

Schools with limited land for are done as a group project with 5 students practicing agriculture

Similar to food festivals, harvest festivals are conducted in schools and the produce are sold Combined ideas Crafts



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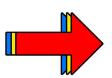
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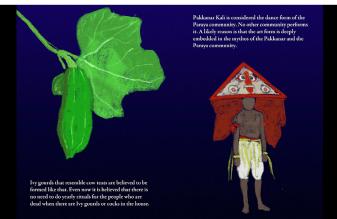
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Prototype









Persona 1

- Krishnan Kutty
- Age 11
- O Studies in class 6 A
- O Government Model Boys, Thrissur
- From Thrissur, Kerala
- Lives in a Nuclear Family with his parents and grandmother
- Father is a Daily wage laborer in farms
- O Mother also works in the same farm.
- Krishnan Kutty aspires to be a footballer
 His father wants his son to have a high earning job.
- Other include are football, helping his dad with work and listening
- Other include are football, helping his dad with work and listenin and telling stories.
- Krishnankutty loves to spend night time with his grandmother listening to folktales and mythological stories.



Krishnan Kutty

Persona 2

- Hanna Haris
- O Age 15
- Studies in Class 10
- o Girideepam Bethany Central School, Kottayam
- From Kottayam, Kerala
- Lives in nuclear family with her parents
- Her father works in the municipal corporation
- o Her mother teaches biology in the same school
- Hanna aspires to be a doctor
- Her other interest include drawing, classical dancing and social media
- Hanna really wants do her degree abroad and settle there.



Hanna Haris

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What's next?

- O Creating protoype for the age group 6 to 10th
- O Refining guidelines connecting agriculture with other cultural aspects of the state
- O Creating Scenarios with the defined Personas depicting the concept in action
- Final Concept map of the whole solution



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4f.5. Week Five: Presentation on

Final Design Solution

4f.5.1. Presentation

4f.5.2. Project Synopsis

4f.5.3. Stories

4f.5.4. Video

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Week Five: Presentation on Final Design Solution

Project Report

• Cultural Identity of Kerala..... (37780 kb)

Miro Board

• Cultural Identity of Kerala..... (90480 kb)



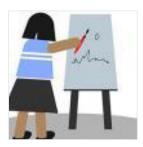
Presentation



Stories



Project Synopsis



Video

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Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/cultural-identity-kerala/week-five-presentation-final-design

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- 2. Course Schedule and Grading
- 3. Problem Statement
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4a, 4b, 4c, 4d, 4e 4f. Cultural Identity of Kerala 4f.1, 4f.2, 4f.3, 4f.4

4f.5. Week Five: Presentation on Final Design Solution

4f.5.1. Presentation

4f.5.2. Project Synopsis

4f.5.3. Stories

4f.5.4. Video

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Presentation on Final Design Solution of your System Design Project

Presentation Date and Time:

Timings: The Feedback is scheduled on Week 5 between 2.30pm to 5.30pm

The venue: Online

Sequence: Group by group starting with group 1

Timings: Presentation time: 12 minutes (we will play the video or you can make the presentation) + 10 minutes

for Feedback

Feedback: Faculty mentors will give final feedback on your project

Grades: This is a graded presentation (40%)

Presentation:

- . Each group has to make a video of their presentations a of the 5 weeks work in about 12 mins. duration and upload this in google classroom
- . The presentation needs to be professionally done.
- . The presentation needs to include your Final Concept along with the explanation of the design process that you followed.

Presentation (overall) should include:

- . WHO team composition
- . WHAT what was designed and for whom (users and environment)?
- . WHY why was this an important systems level problem to address?
- . Issues what were the problems encountered?
- . HOW what was the process used in solving this system design project?
- . ANALYSIS what were the insights gained from mappings (both main and subsystems) and opportunities for design
- . DESIGN what was designed? Mention your objectives or redefined objectives
- . CONCEPTS/IDEATION what are the iterations of the design evolution
- . PROTOTYPE Can you demonstrate your final design (maybe use scenario) (could be guidelines/scenarios/prototypes etc.)?
- . Show highlights of the prototyping story
- . EVALUATE What is the feedback from the users?
- . FUTURE Next steps?

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Presentation Details of points mentioned above:

Task 1: Prepare a presentation (of 12minutes duration) to include all the stages of your project:

- a. Title of the System Design Project or Problem Statement
- b. Team members
- c. Summary/content listing of your presentation
- d. World views
- e. Insights from Primary and Secondary Research (Mappings for overview as well as sub-systems)
- f. Major design opportunities
- g. Restatement of the problem / Design Objectives / Design Goals
- h. Overview of your ideas
- i. Alternate Concepts (sketches + quick scenarios + concept models)
- j. User Feedback on ideation
- k. Final Concept and its unique features
- I. Final Scenario
- m. Form and Interface Development or detailing
- n. Prototype
- o. User feedback on your final solution
- p. Future steps
- q. Full References
- r. Acknowledgments to all who have helped

Presentation Essentials:

- a. Present in an engaging and crisp manner
- b. Design the slides/visuals to reflect the relevance of your topic
- c. Use your communication design skills to make the presentation visual
- d. Design proper layout; use appropriate type, colour and background
- e. Its nicer if all the team members take turns in presenting
- f. It makes sense to have main titles, sub titles and then running text/images
- g. Have a summary/content slide in the beginning
- h. Make good use of appropriate medias in the presentation
- i. Use appropriately theatre, drama, story, scenarios, video, etc. to convey your ideas
- j. Preparing a script is a good idea reading text from the slide should be avoided

Presentation Tips:

k. Never underestimate the need to rehearse. This can be usefully done alone, with team members, and with novice audiences. Video tape your self (to get confidence).

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- l. Never underestimate how long it takes to describe things clearly to a novice audience.
- m. Never underestimate how little the audience knows about what is so interesting about your project.
- n. Do not be dull when you speak, audiences want to engage in your enthusiasm.
- o. Make slides visible from the back of a room (try them out!)
- p. Do not talk over any audio in your presentation.

Submission Details:

- a) Updated project Report
- b) Video Presentation of 12 minutes both slides + Final Video/Demo of Prototype
- c) A 250 word synopsis of the project along with the title, keywords and name of team members
- d) 2-3 high resolution images of your final design (1200 x800 x 300 dpi)
- e)It would be great if you can submit a copy of your MIRO board

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Presentation

Problem Statement

Presentation

• Cultural Identity of Kerala..... (41420 kb)



Creating a system to preserve the Cultural Identity of Kerala

Content

- O Problem Statemen
- World View Mapping
- Research
- Back to Drawing Board
- O Incidhte
- O What is getting lost?
- What is worth preserving?
- O Why is it worth preserving:
- O Ideation
- O Narrowing Down

- Final Idea
- O How it wor
- O Guidelines
- O Personas
 O Scenario
- O Prototypes
- Feedback
- O What's next
- References
- Acknowledg

World view mapping

https://kumu.io/AamirNihal/kerala#untitled-maj



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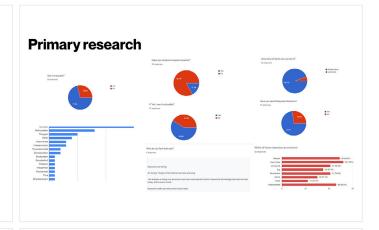
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Research

- ♦ Conducted a survay to understand different perspective on kerala
- ♦ Identified existing identities of the state.
- Further researched on the the factors that make up kerala
- ♦ Conducted a detailed survey to understand the sub sectors of culture.

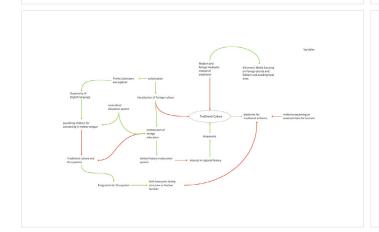


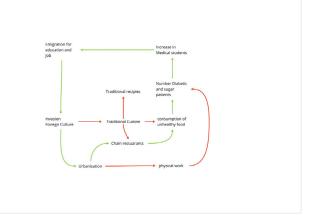
Back to the drawing board

- Kerala as an entity in the south west of India.
- O Disecting kerala based on time and space
- O Understanding the exchange of culture In kerala
 - · trade (spice route)
 - migrating for job
- Ounderstand the impact of globalisation to the culture of kerala.
- The impact of cultural loss.

Causal loop Diagrams

- Used the factors that defines culture
- Looked at the cause and effects to create loops
- ♦ Found out the leverage points
- Understood the major factors affecting each sector





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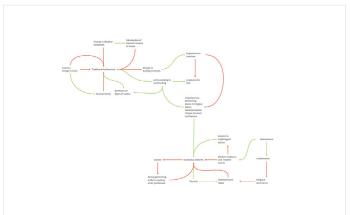
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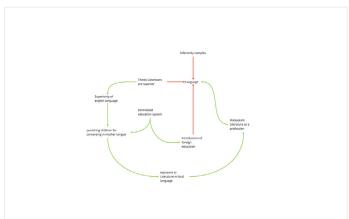
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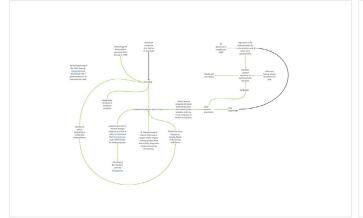
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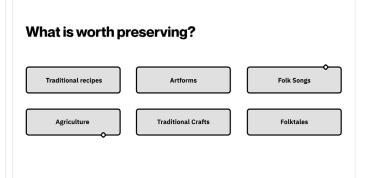
Insights

- · Lack of interest and knowledgein local history
- ♦ Lack of teaching about traditional art and skills
- Kid centric media focussing on foriegn stories and avoiding local ones
- O Decreased physical work and increase in chain restuarants
- O Traditional attire as ocassionals and increase in branded clothes
- Change in building materials ad styles
- O Shift from family professions by artisans
- O Decrease in platforms
- Lack of reservation of museums and history
- ♦ Inferiority complex

What is getting lost?

- O Dissected culture into its subparts
- Understood the interconnections
- Further divided each into its major sub sections
- Understand the subparts with most interconnections





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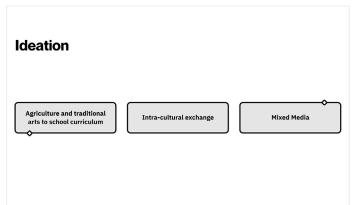
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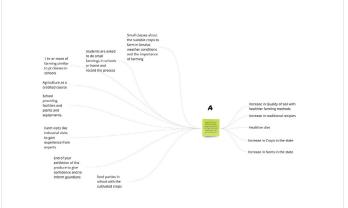
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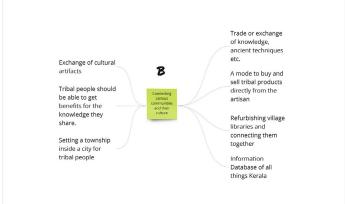
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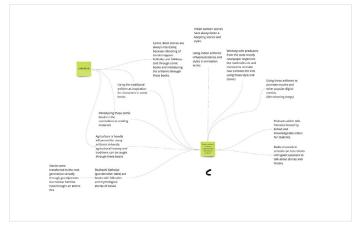
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Narrowing Down

	A	В	c
Impact	1	3	2
Reach	2	1	3
Cultural Value	1	3	2
Execution Ability	2	1	3
Ease of Adoptation	2	1	3
Ease of Adoptation	2	1	С
Final Score	11	10	15

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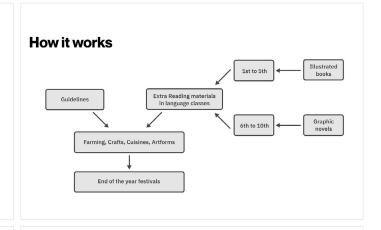
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Final Idea

- O Combination of A and C
- Making use of the interconnection to reach as wide as we can
- ♦ Creating respect towards the culture from a younger age.



Guidelines

Farming, Crafts, Cuisine as elective choices introduced schools.

2 hr of theory and practical classes every week.

Classes about the suitable crops to farm in Keralas weather conditions and the importance of farming and farming techniques.

School provides facilities and equipment to practice at school and at home. Students are asked to do activities in schools or home and record the process. Visits to farms and craftsmen to gain experience from experts

End of year exhibition of the products to give confidence and to inform guardians

Food fests in school with the cultivated crops prepared as part of the cuisine course Schools with limited land for farming, homeworks are done as a group project with 5 students practicing together.

Government providing resources for schools to implement Experts are brought to teach the traditional and modern methods in the field. Similar to food festivals , harvest festivals and craft exhibitions are conducted in schools and the products are sold to the visitors.

Different famrning styles to be included like plant based, fish farms, poultry and dairy farms etc. Schools can choose to implement the various types of farms and crafts based on available resources.

Organising events on the harvest day from the learnings of traditional arts and crafts.

Persona 1

- O Krishnan Kutty
- Age 11
- O Studies in class 6 A
- Government Model Boys, Thrissur
- From Thrissur, Kerala
- Lives in a Nuclear Family with his parents and grandmother
- Father is a Daily wage laborer in farms
- Mother also works in the same farm.
 Krishnan Kutty aspires to be a footballer
- His father wants his son to have a high earning job
- Other include are football, helping his dad with work and listening
- and telling stories.
- O Krishnankutty loves to spend night time with his grandmother
- listening to folktales and mythological stories.



Krishnan Kutty

Persona 2

- Hanna Haris
- O Age 15
- O Studies in Class 10
- Girideepam Bethany Central School, Kottayam
- From Kottayam, Kerala
- O Lives in nuclear family with her parents
- ♦ Her father works in the municipal corporation
- Her mother teaches biology in the same school
- Hanna aspires to be a doctor
- Her other interest include drawing, classical dancing and social
- O Hanna really wants do her degree abroad and settle there



Hanna Haris

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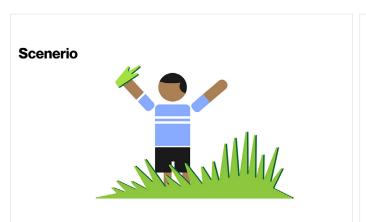
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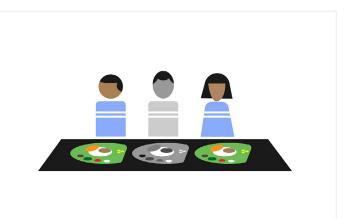
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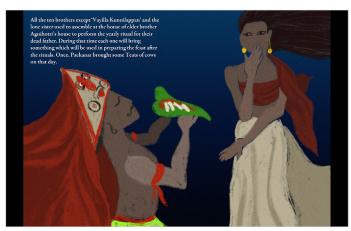
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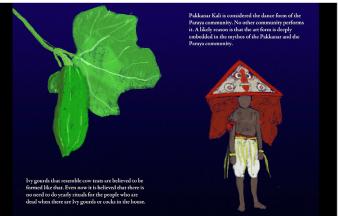
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Prototypes

- For Students from 1st to 5th illustrated books introducing folktales and artforms, agriculture, cuisine and crafts related to it through it
- From 6th to 10th Graphic novels which will do the same mentioned above in more details













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Feedback on Prototypes

- Visualise the connection with the artforms in more detail
- Explain the connections that are told in the stories through visuals in detail
- O Understand existing Indian narrative styles
- ♦ Find unique Indian comic style (Temple Mural and Sculpture Narratives)

User Feedbacks

- Felt that the reading the prototype is better than reading the existing materials
- ♦ Was able to understand the story easily because of simple writing and illustration
- Was unable to understand the connection with the artform and with agriculture.
- ♦ Will read for sure
- ♦ The style is relatable
- If a new style of narrative is introduced, it will be more interesting as they have not seen something like that
- Can understand the story and wanna read more

Whats Next?

- Work out a unique style appropriate to the culture
- Find more impactful Stories
- Revamp existing stories to better suit modern readers
- Reach out to schools to understand the possibilities of implementing this system.

References

http://kerenvis.nic.in/Database/CULTURE_6741.aspx

https://youtu.be/BWky040EDPI

https://www.cppr.in/wp-content/uploads/2016/11/A-Stagnant-Agriculture-in-Kerala_The-Role-of-the-State.pdf https://www.thenewsminute.com/article/kerala%25E2%2580%2599s-agriculture-brink-collapse-will-communism-loving-s ate-wake

https://www.thenewsminute.com/article/kerala%25E2%2580%2599s-agriculture-brink-collapse-will-communism-loving-status/ala

https://puzhakal0.tripod.com/river.htm

https://www.hindustantimes.com/india-news/ahead of-assembly-polls-sabarimala-issue-back-on-radar-in-kerala-101613 91521777.html#--text=1990%3A%20Ban%20n%20productive%20women.between%2010%2D50%20age%20groups https://www.financialexpress.com/india-news/kochi-biennale-hopes-to-revive-keralas-lost-glory/18990/ https://www.skylineuniversity-in-ae/blog/university-life/are-we-losing-our-culture-due-to-globalization https://archive.org/details/Aitihyamala_Malayalam_Parts_1_to_8/Aitihyamala-KottarathilSankunniPart1/page/n1/mode/2up https://www.keralatourism.org/christianity/arrival-stthomas/6

http://keralamythology.blogspot.com/2014/01/pakkanar-and-legend-behind-ivy-gourd.html

https://www.sahapedia.org/pakkanar-kali-ritual-and-community

https://whc.unesco.org/en/abou

https://ir.uiowa.edu/cgi/viewcontent.cgi?article=3386&context-etd
https://cdn.discordapp.com/attachments/828200056908808256/831958120946991114/Diversity_Matters_Forum_overview_and_th
eme_summaries_2014.pdf

https://cdn.discordapp.com/attachments/828200056908808256/831959384408981534/culture.pdf

https://feed.ieronimomartins.com/hot/the-historical-spice-route/

https://www.muzirisheritage.org/spice-route.ph

https://en.unesco.org/silkroad/content/what-are-spice-routes

https://www.bbc.com/future/bespoke/made-on-earth/the-flavours-that-shaped-the-world/

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Acknowledgment

- rof. Ravi Poovaiah
- nr.Ajanta Sen
- rof. Pramod Khambate
- rof. Shilpa Ranade
- 🛨 Jinar
- ★ Colleagues (Chunkzzz)



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Project Synopsis

Problem Statement

Creating a system to preserve the Cultural Identity of Kerala

Keywords



A project focused on building a system to preserve the culture of kerala. A system to help preserve the traditional techniques and styles in areas like Farming, Crafts, Arts, Artforms, Cuisine, Clothing, Architecture, Language, Literature etc. The system aims to help build a firm cultural Identity in Keralites from a young age by providing them with platforms to learn about their culture in both their curricular as well as leisure activities. This is achieved by introducing a set of guidelines created to be implemented in the current school system to introduce topics such as various types of farming, Crafts, Cuisine and Artforms as electives that students can choose to practice and also illustrated books and graphic novels telling stories of folktales and historical events and people are incorporated as reading materials in language classes and made available as comic books.

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Design Course

Systems Design Project

Interconnected and form a System within Defined Boundaries

by

Prof. Ravi Poovaiah, Prof. Vivek Kant, Prof. Pramod Khambete and Dr. Ajanta Sen IDC, IIT Bombay

Source:

https://www.dsource.in/course/systems-design-project/projects/cultural-identity-kerala/week-five-presentation-final-2

- 1. Aims of Systems Design Project
- 2. Course Schedule and Grading
- 3. Problem Statement
- 4. Projects

4a, 4b, 4c, 4d, 4e

4f. Cultural Identity of Kerala

4f.1, 4f.2, 4f.3, 4f.4

4f.5. Week Five: Presentation on

Final Design Solution

4f.5.1. Presentation

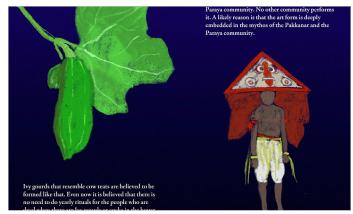
4f.5.2. Project Synopsis

4f.5.3. Stories

4f.5.4. Video

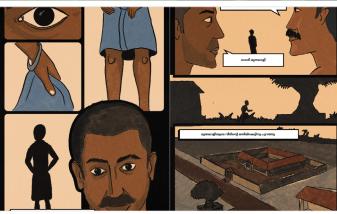
- 5. Videos
- 6. Contact Details

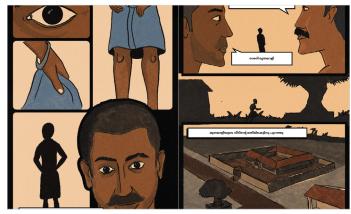
Stories













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4f.1, 4f.2, 4f.3, 4f.4

4f.5. Week Five: Presentation on

Final Design Solution

4f.5.1. Presentation

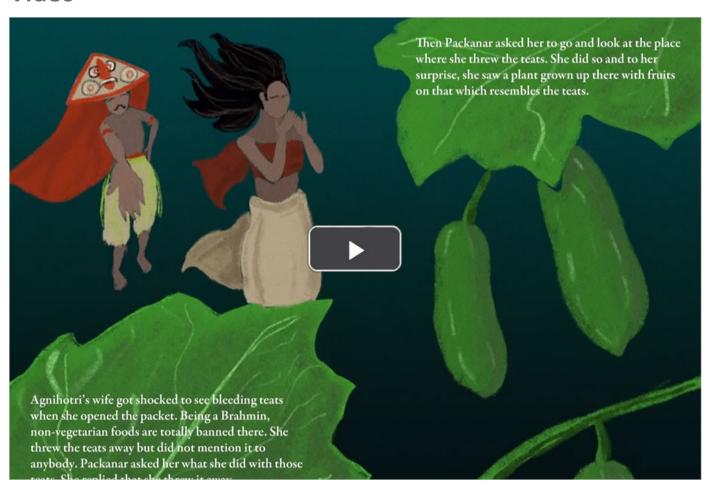
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4f.5.3. Stories

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- 5. Videos
- 6. Contact Details

Video



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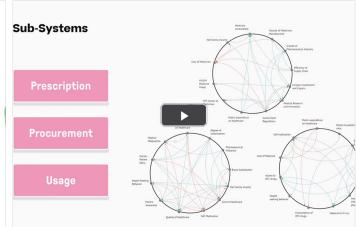
Source:

https://www.dsource.in/course/systems-design-project/videos

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Videos





Navaaz EV Charging Solution

The Indian Medicine System



The BudBud Foundation



Sustainable Housing System

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Cultural Identity of Kerala

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Contact Details

This documentation was done by Professor Ravi Poovaiah faculty at Industrial Design Centre (IDC), IIT Bombay.

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