

Learning is continual.

It is 'not 'an activity that occurs outside of our daily lives.

It is the product of experience and the goal of Education!!

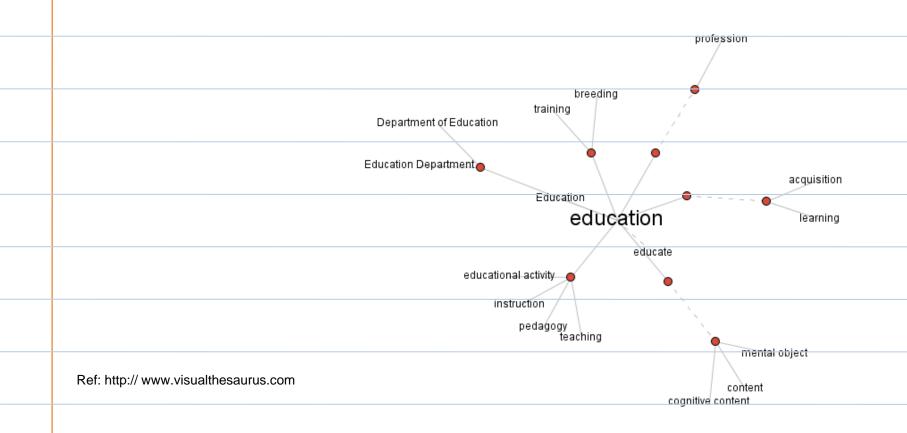


Ref: http://ltc.umanitoba.ca/KnowingKnowledge/index.php/Learning

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Ch 2. Methodology and Timeline
Ch 3. Background study
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Ch 8. Final concept

Know the possibilities and design opportunities available in the field of Education in India.



- Know the possibilities and design opportunities available in the field of
 Education in India.
- Provide a new source of inspiration to students

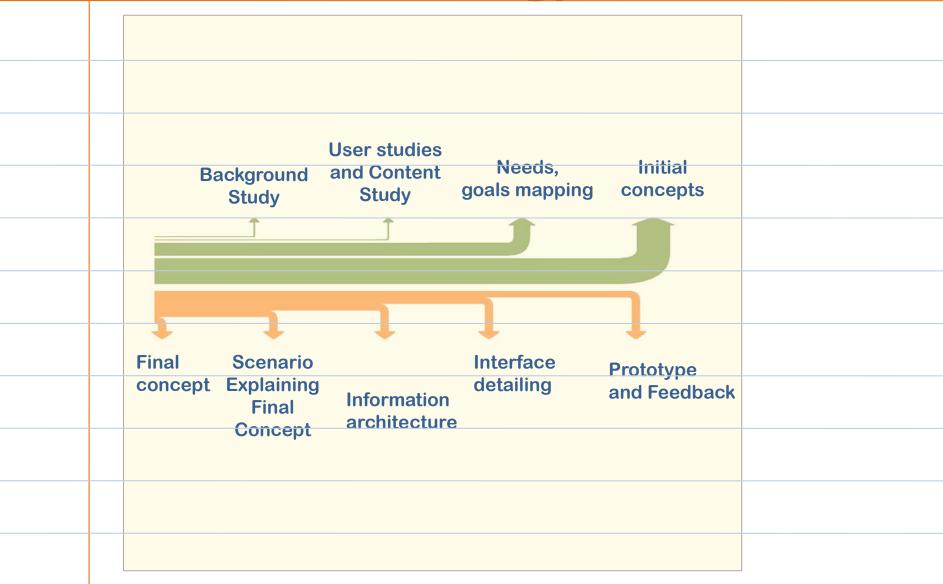


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 Education in India.
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- Provide alternative learning experiences



- Know the possibilities and design opportunities available in the field of
 Education in India.
- Provide a new source of inspiration to students
- Provide alternative learning experiences
- Enable use of technology to enhance their knowledge

Ch 2. Methodology and Timeline



Learning Theories

Piaget's Stage Theory of Cognitive Development:

It is a description of cognitive development as four distinct stages in children.



'child-centred' approach Piaget (1896-1980)

develop conceptual growth

make it logical

Learning Theories

Constructivist theory:

Constructivist theory views each learner as a unique individual with

unique needs and backgrounds.

incorporate new experie knowledge through inter

Learning as Network forming Connectivism theory

Learning is the process of creating networks by joining nodes.

Here the nodes may be the people, organizations, libraries, web sites,

books, journals, database

digital age learning

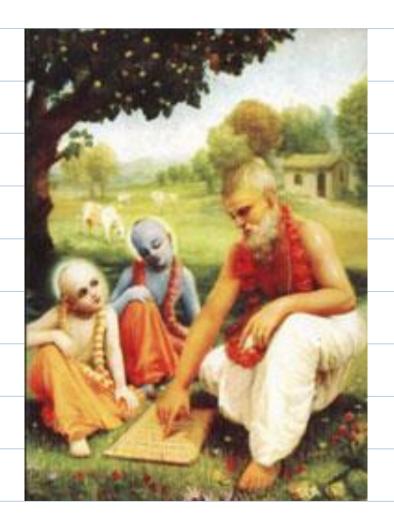
adjust to changing facts

Education system in India :

Education system in India:

History – Ancient India followed

tradition of Gurukul.



Education system in India:

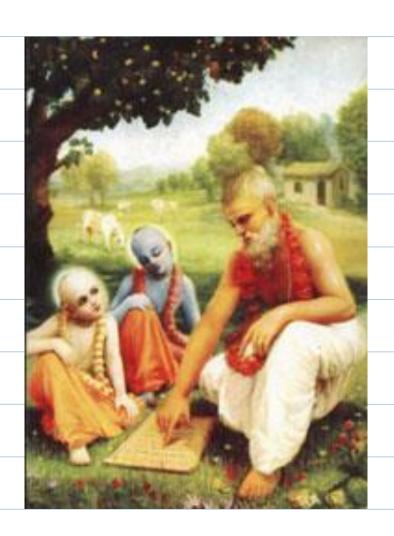
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- Present system is not the

Gurukul system also known

as Guru-Shishya Pramapara



Education system in India:

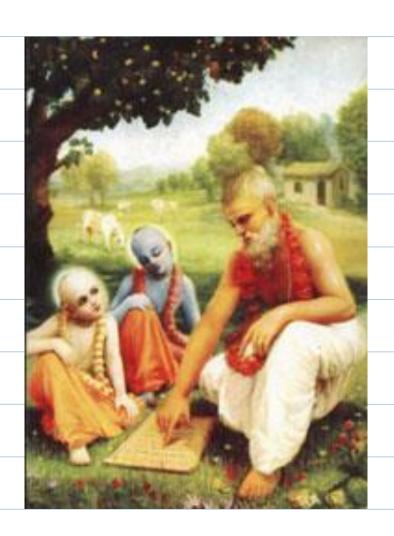
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What is the present system of Education in India?

We are all aware of the present

System of Education in India.







We are all aware of the present

System of Education in India.

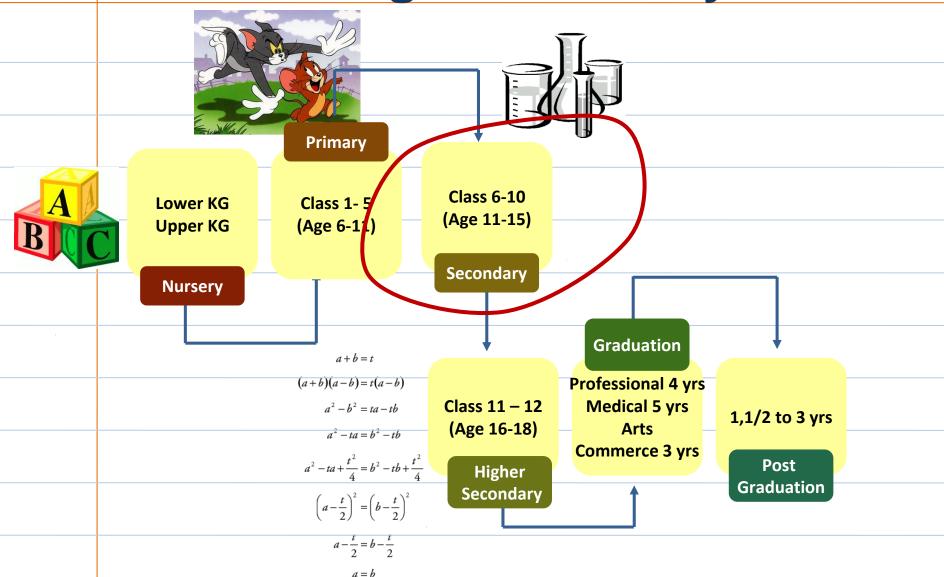
It is an implantation of the British

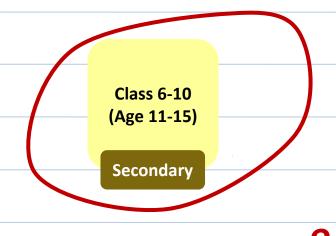
Rulers in the 19th century.











Why this age group?

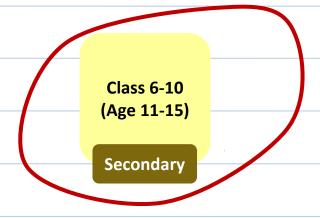
most of the dropouts from schools happen at this stage

Ref: http://www.businessweek.com/magazine/content/05_05/b3918023.htm



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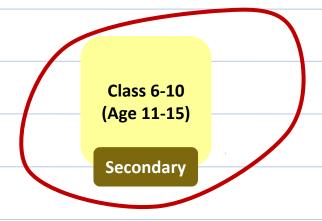
become concerned about hypothetical,

the future, and ideological problems

Ref: http://www.learningandteaching.info/learning/piaget.htm

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cognition reaches its final form

become concerned about hypothetical,

the future, and ideological problems

Ref: http://www.learningandteaching.info/learning/piaget.htm

Are their any existing technologies available for this age group?

Existing Technologies:

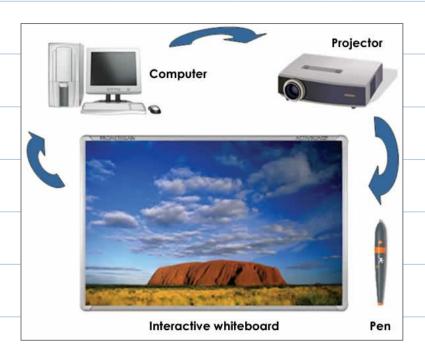
Thinkquest.org

- An online learning platform
- Creates a project environment
 where teachers and students
 - engage in collaborative learning
- where students participate in technology contests

Existing Technologies:

Interactive whiteboard

- An Attachable Device
- Creates powerful motivation
 for the learners
- Provides the learner with an interactive experience



Ref: www.pearsonlongman.com/.../images/demo.jpg

	Inferences from Background study
	Nothing is related to the school curriculum
,	

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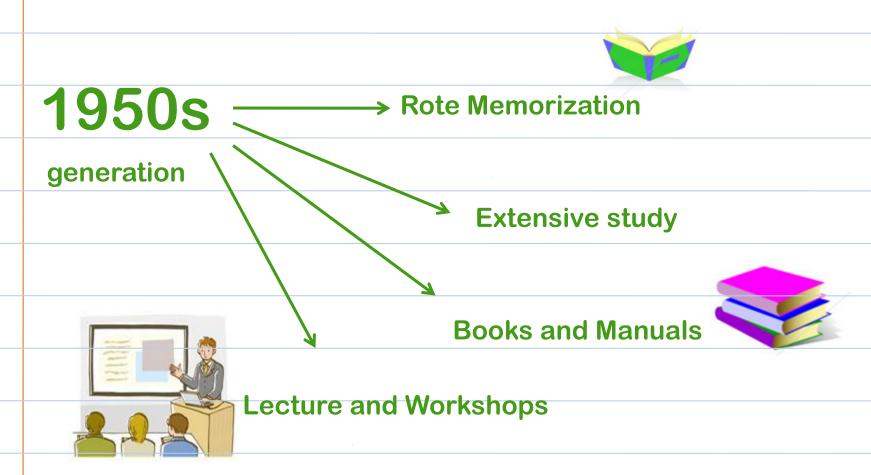
Do not include learning methods of the future

What do we mean by future methods???

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Lets look at the changing phase in education...

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Ref: Nkilkenny.files.wordpress.com/2006/o8/generational_learning

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Lets look at the changing phase in education...



So, Include futuristic methods in the design solution



Ref: Nkilkenny.files.wordpress.com/2006/o8/generational_learning

Do not include learning methods of the future

Existing Technologies:

Nothing is related to the school curriculum

Can it be related to School curriculum???

Not designed as per Indian context

Personal experience is lacking

Existing Technologies:

Nothing is related to the school curriculum

Can it be related to school curriculum???

HOW?

Existing Technologies:

Nothing is related to the school curriculum

Can it be related to school curriculum???

✓ Understand

OW ? — → the content



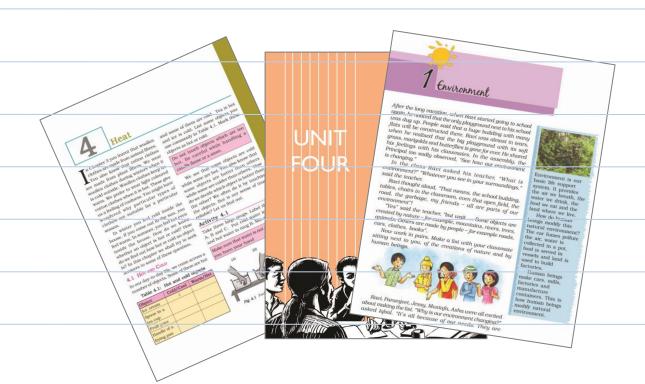
The curricular textbooks of NCERT of class 7th std

were taken as the 'reference' content for the project.



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NCERT - (National Council of Educational

Research and Training)

very well organised





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- very well organised
- a national-level curriculum





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- structured approach





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NCERT - (National Council of Educational

- very well organised
- a national-level curriculum
- structured approach
- task based
- coming up with new philosophies





Problems with the content:

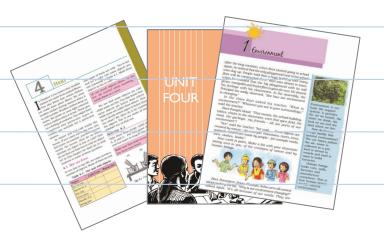
Lack relevancy





Problems with the content:

- Lack relevancy
- not open to subjective interpretation





Problems with the content:

- Lack relevancy
- not open to subjective interpretation
- miss out on regional contents





Problems with the content:

- Lack relevancy
- not open to subjective interpretation
- miss out on regional contents
- less scope for exploration



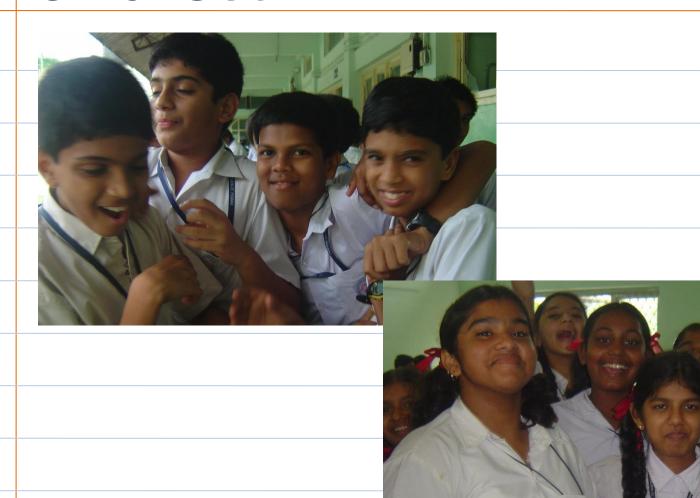
User Environment and Understanding User
User Age group – 11 yr- 16 yr
(Location) Kendriya Vidyalaya, IIT Powai campus

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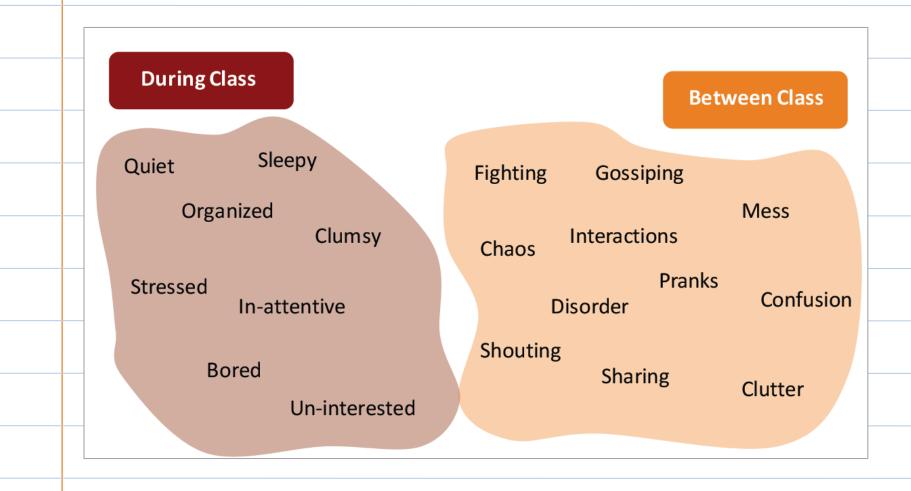
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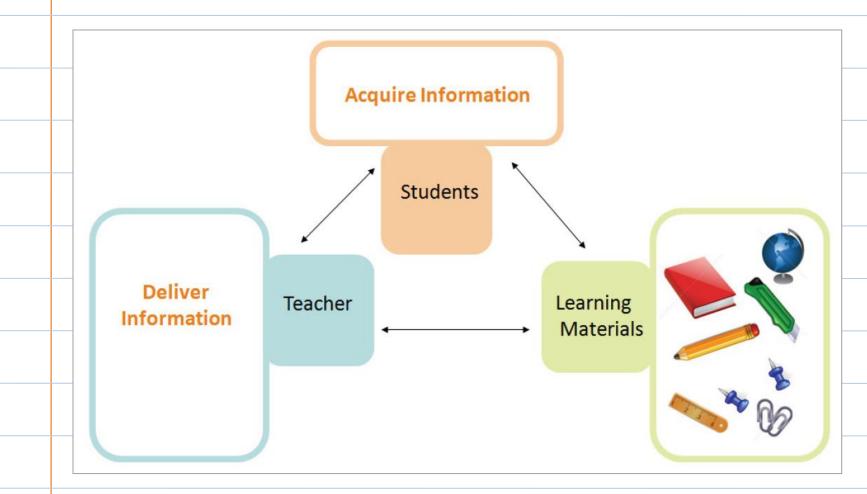




Classroom Environment



Classroom Environment







Gist of User studies : Student perspective

- Want to be online in the various platform
- Are aware of the new technologies
- Want to execute their ideas and show their creativity





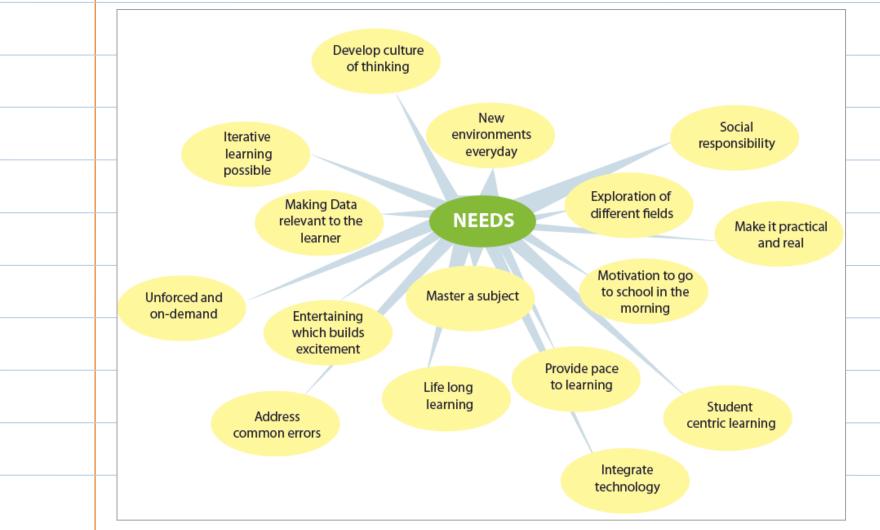
Gist of User studies: School perspective

- Limited budgets and resources
- Are looking at technology with open minds
- Willing to put initial investment
- Want to improve the quality of their education

Problems Identification

- Cannot Relate curriculum to real life
- Lack Relevancy in the content
- Cannot understand the concepts when absent
- Misunderstand and misinterpret concepts
- Are bored of long lectures
- Cannot compare understanding

Needs Mapping





Student goals:

- To explore different fields
- To identify with the real world
- To learn collaboratively
- Find the content relevant
- Easy to grasp ideas
- Minimise misunderstanding or misconceptions



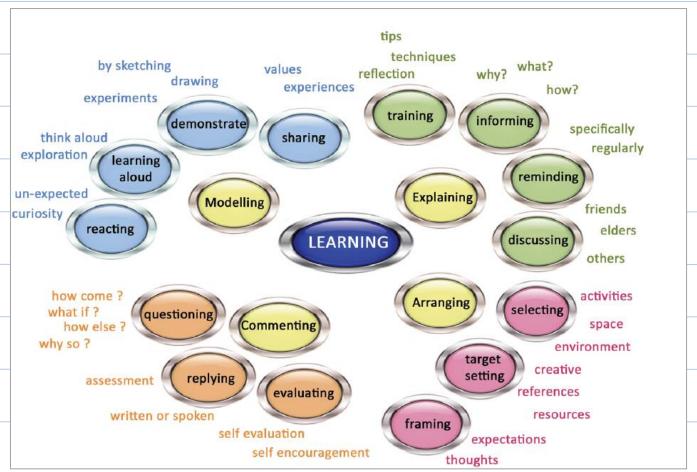
Teacher goals:

- Understand the capabilities of the student
- Maintain expertise in the subject he teaches
- Guide learner as much as possible

Opportunities:

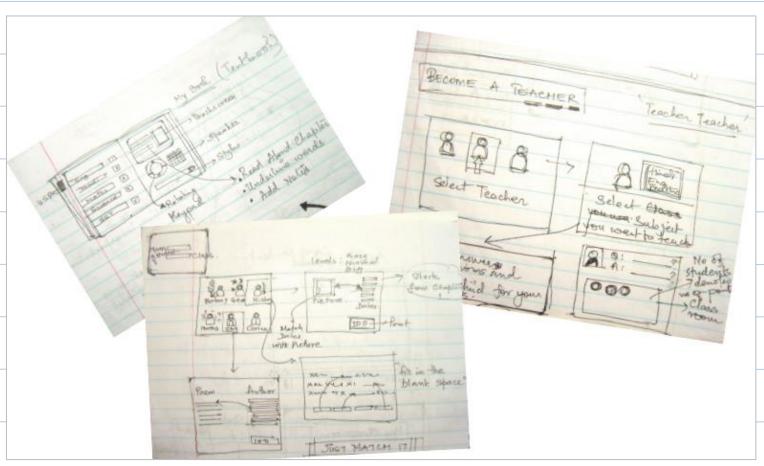
- Relevant Content generation
- Involve learner in content generation
- Enable the content to update
- Let learner re-organise, explore and play with content
- Add excitement, fun and invoke competition

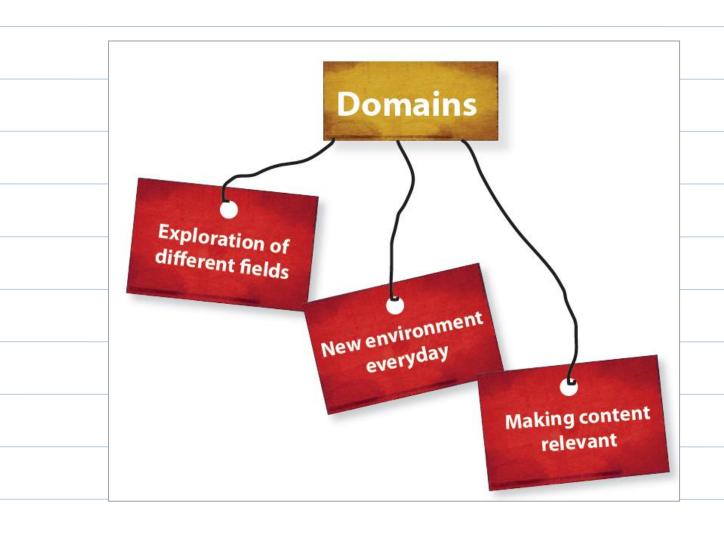
Brainstorming:



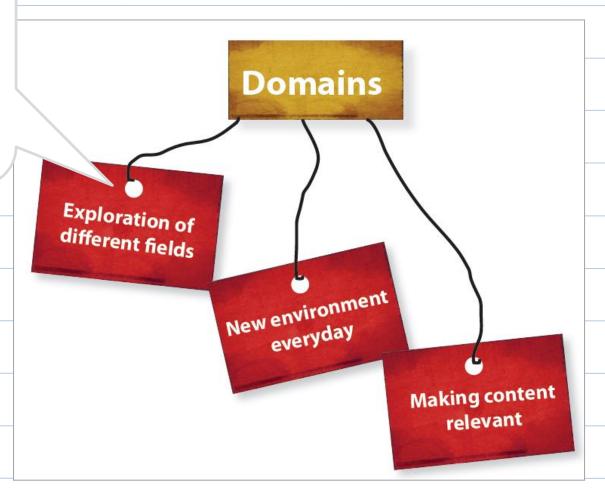
Ref: http://www.moodleforteachers.com/file.php/1/images/

Initial Doodling:

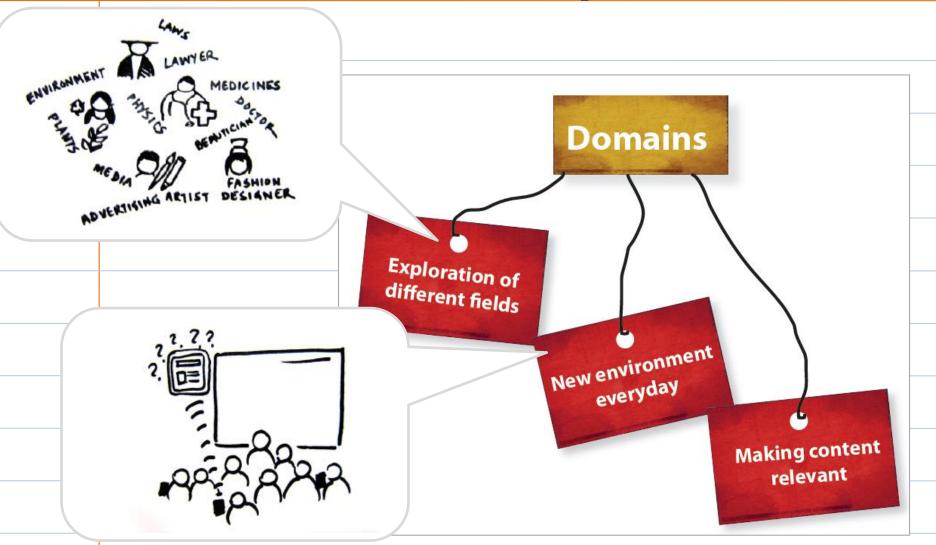




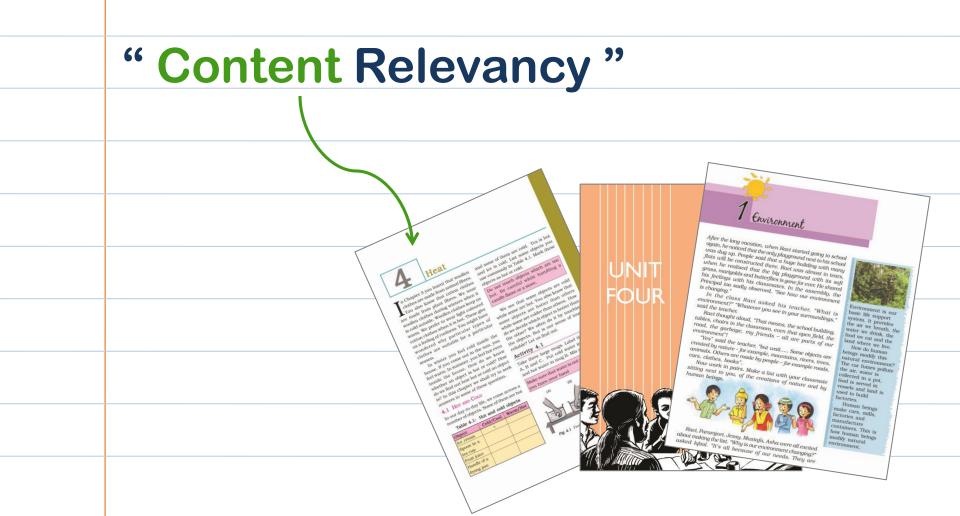




Ch 7. Initial Concepts



"Content Relevancy"



"Content Relevancy"



making it current,

which is happening now



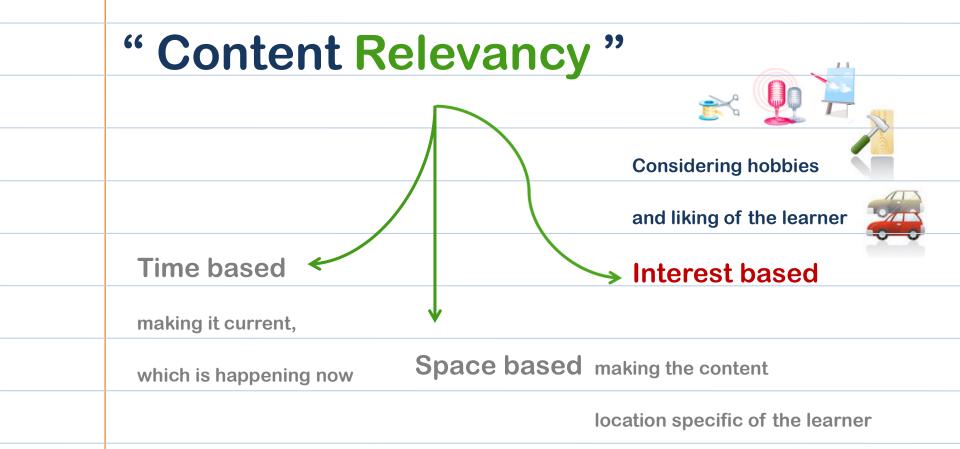
Time based

making it current,

which is happening now

Space based making the content

location specific of the learner



Product Profile:

Product is a Website called 'My Textbook'



Product Profile:

- Product is a Website called 'My Textbook'
- Main user Students



Product Profile:

- Product is a Website called 'My Textbook'
- Main user Students

Secondary users - Teachers







Product Profile:

- Product is a Website called 'My Textbook'
- Main user Students | Secondary users Teachers
- Complexity of the website is expected to be moderate

Product Profile:

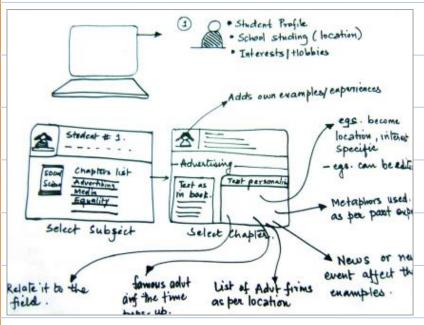
- Product is a Website called 'My Textbook'
- Main user Students | Secondary users Teachers
- Complexity of the website is expected to be moderate
- Goal Oriented

Learn
Enjoy Explore
Experience

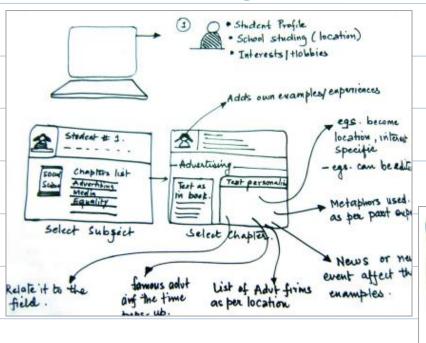
Product Profile:

- Product is a Website called 'My Textbook'
- Main user Students | Secondary users Teachers
- Complexity of the website is expected to be moderate
- Goal Oriented
- Provides 'Options' other than the textbook

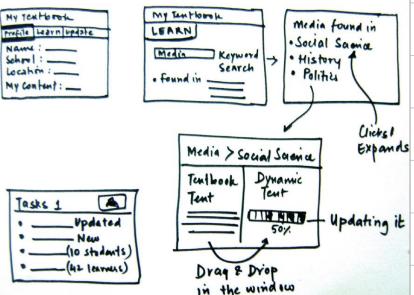
Interface Detailing:



Interface Detailing:



Interface Wireframe:



Cir o. Finai Concept
Final Interface
Lets understand 'MY TEXTBOOK' through a scenario



learning is now so much fun with....

my Textbook



New users make your profile for free!!

Make new profile

Existing users sign in :

USERNAME

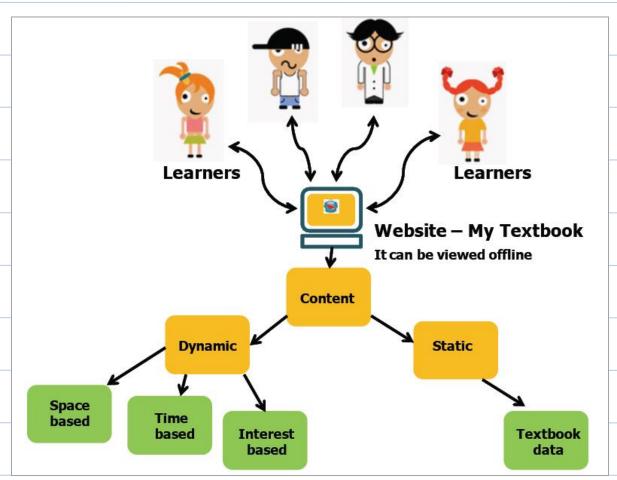
PASSWORD

Sign in

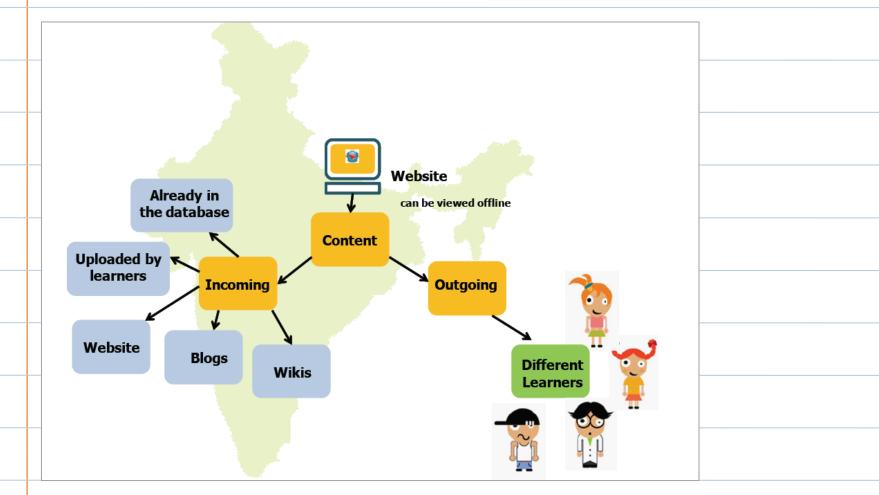




Concept Map



Content Flow



Some points about: My Textbook.com

To make sure that the tasks uploaded are valid and genuine,
 the teacher profile is paid/registered

 Content uploaded by student is free but the content uploaded by them can be scrutinized before it is shown in students search results

Acknowledgement

- Ms.Punam Medh (Instructional Designer)
- Kendriya Vidyala,IIT Powai
- NCERT

Thank You. **Shreyasi Roy** | Interaction Design | 07633002 **IDC**, **IIT** Bombay