

Platform to show & exhibit students' work explorations at IDC

Interaction Design | Project 3 | Report

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Guide
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2016

Declaration

I declare that this written document represents my ideas in my own words and where others' ideas or words have been included, I have adequately cited and referenced the original sources.

I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/ source in my submission.

I understand that any violation of the above will be cause for disciplinary action by the Institute and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed.



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Approval Sheet

The project titled 'Platform to show & exhibit students' work explorations at IDC' by Sagar Sadashiv Yende, is approved for partial fulfillment of the requirement for the degree of 'Master of Design' in Interaction Design.

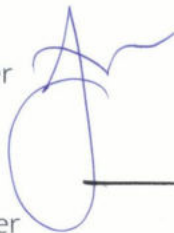
Guide



Chairperson



Internal Examiner



External Examiner



Date

28/07/16

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Thanks to Prof. Anirudha Joshi, Prof. Venkat R , Prof. Girish Dalvi and Prof. Jayesh Pillai for their valuable inputs during the stage presentations and guidance
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My classmates at IDC Prasad Ghone, Indrajeet Roy, Jayati B., Akshay Kore, Sitara Shah, Dileep M. Sanket Kulkarni, Jui Pandya, Ashwini Hiremath for their suggestions and comments during various discussions. Spriha Biswas for her help in development and junior M.des batch for their involvement in evaluation.

Most importantly, my family for their constant support, motivation and inspiration.

A handwritten signature in black ink, appearing to read 'Sagar Yende', with a stylized flourish at the end.

Sagar Yende

Abstract

At any design institute like IDC, sharing of work in progress with in peers and all faculty can help students to improve their quality of work. Constructive feedback from faculty and other students on ongoing work/projects will insure better results through iterations.

IDC lacks a public platform to exhibit students work and projects at one place. Many of IDC students don't have their portfolios online, and no single platform where one can have a look at all projects in IDC. Portfolio creation and putting all work online needs time investment while working on current projects/assignments. Unpolished work and hesitation are some of other reasons why students don't share projects publically. Currently all assignments and projects are documented using various platforms.

Documenting these project on IDCs' own platform will create digital repository of

all work done by students at IDC. Need for both documentation and presentation of students work at IDC can be addressed by combining both these processes. It will built a student's' portfolio simultaneously with his/her ongoing assignments and projects.

This project is to create a platform for sharing ongoing work within IDC community and It will also serve as place to exhibit projects at IDC. Considering these needs of having a platform to share ongoing work internally, importance of feedback and difficulties in getting one, need for documentation of work and course management on both faculty and students end. This platform tries to address all these issues with different levels of sharing projects, documentation of iterations, internal feedback and giving a public platform to showcase completed work. Platform will help in better management and documentation of courses for faculty and for

students, it will give platform for assignment submission, getting feedback, showcase of their work at IDC, access to resources and being updated on current projects at IDC.

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Introduction

At IDC exposure of student's designs and its iterations is limited to the concerned faculty and peers in class. Even though IDC have community of experts in various design fields, seeking feedback from other than guide and peers is difficult. Constructive feedbacks in plays an important role in creative process of design. Sharing ongoing work with design community can help in getting such feedback to iterate and improve on final design.

Academic projects and class assignments makes a major part of students design portfolio. Therefore after completing these assignments and projects most of students rework on it to make it presentable and appropriate for portfolio hosting sites like Behance. These portfolio sites are basically to showcase finished and polished work

and it barely helps in getting constructive feedback and improving on design. Documentation of students work at IDC is done in various ways such as uploading them on Drive or Dropbox, IDC library, faculty websites etc. This documentation is mainly for purpose of evaluation and future reference. Course work documentation is mostly done by teaching assistants to related faculty. Access to previous projects and reports is only through IDC library. A combined need for sharing design projects, feedback on design, students portfolio and a platform to exhibit all IDC students work at one place leads to the idea of this project.

A platform that can enable sharing of ongoing work within IDC, host students portfolios and exhibit projects at IDC at

one place is basic idea behind this projects. It serves to students and faculty at IDC, employers and IDC aspirants. A process academic management and portfolio creation is combined to create a tool to share, document and exhibit the work at IDC.

Need

The number of students at IDC is increased as new courses are introduced, even now interaction between faculty and students is very less and it's not possible for every student to personally interact with faculty and other students to discuss their current projects or assignments. This communication gap will increase with increasing number of students, Or it can increase chances of interaction with person of similar interests but because of lack of awareness about current students projects, students come to know about many of the projects in their interest area once it's completed and showcased (DDS). Awareness about ongoing assignments, course, projects, can help in getting to know about current work related to one's interest area, suggestions and help from expertise of each other can help to improve overall outcome of work. There was need to ease the process of getting feedback from anyone without waiting for long. It can give a

starting point for discussion on some project or assignment that lies in common interests. There is no way to get glimpse of all projects going on at IDC at one place, other than interacting with individual student and faculty.

In primary research it is observed that many of IDC students don't have their online portfolios even at the last semester of their course. If portfolio building was simultaneous process along with submission of assignments they would have their portfolios ready without spending time on compilation of previous work.

The resources from previous projects and their documentation can be helpful in many current projects. To get to such resources student on dependent on IDC library which is not available all the time, as there is no online repository of all these resources.

Secondary Research (Portfolio)

Portfolio.nid.edu

Portfolio.nid.edu holds portfolios of NID students. Actually site only holds a thumbnails for every students and these thumbnails are linked to their individual portfolios hosted on other platforms. Each thumbnail on home screen contains a image, student's name, specialization and keywords. Images used for thumbnails can be anything from students photo, sketch, illustrations to a logo. Filter are given to search for desired students profile. Profiles shown on homepage are randomly selected and changes every time user reloads the page.

Classification/Filters

Graduation Year

Discipline

Student name

Creative field (tags)

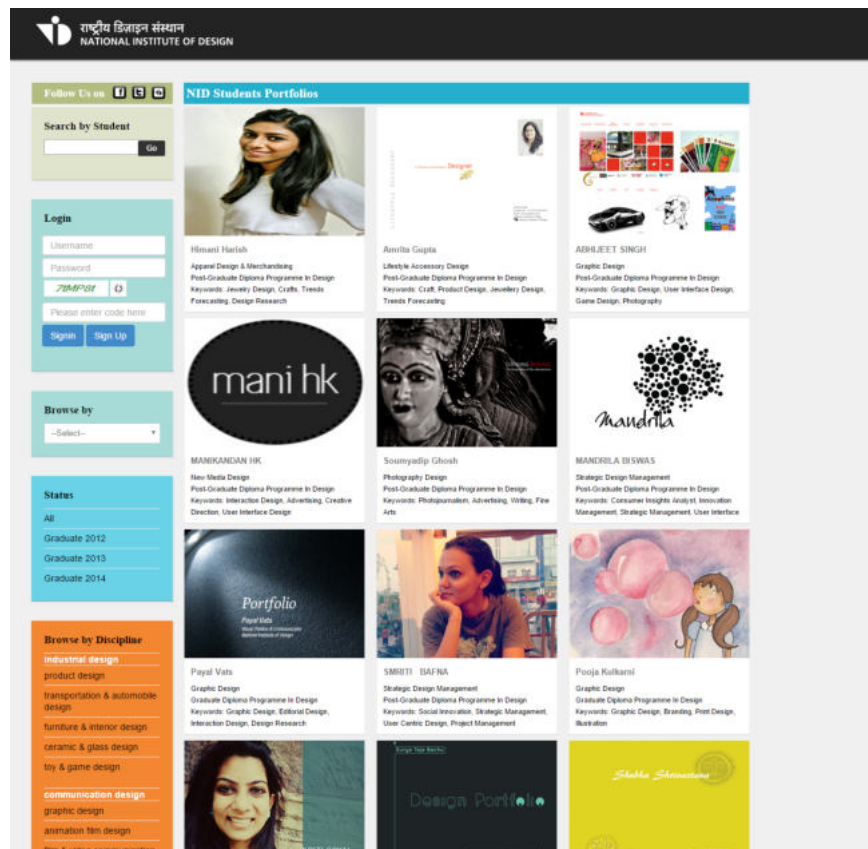


Figure 1. Portfolio.nid.edu

Secondary Research (Portfolio)

Fluid.media.mit.edu

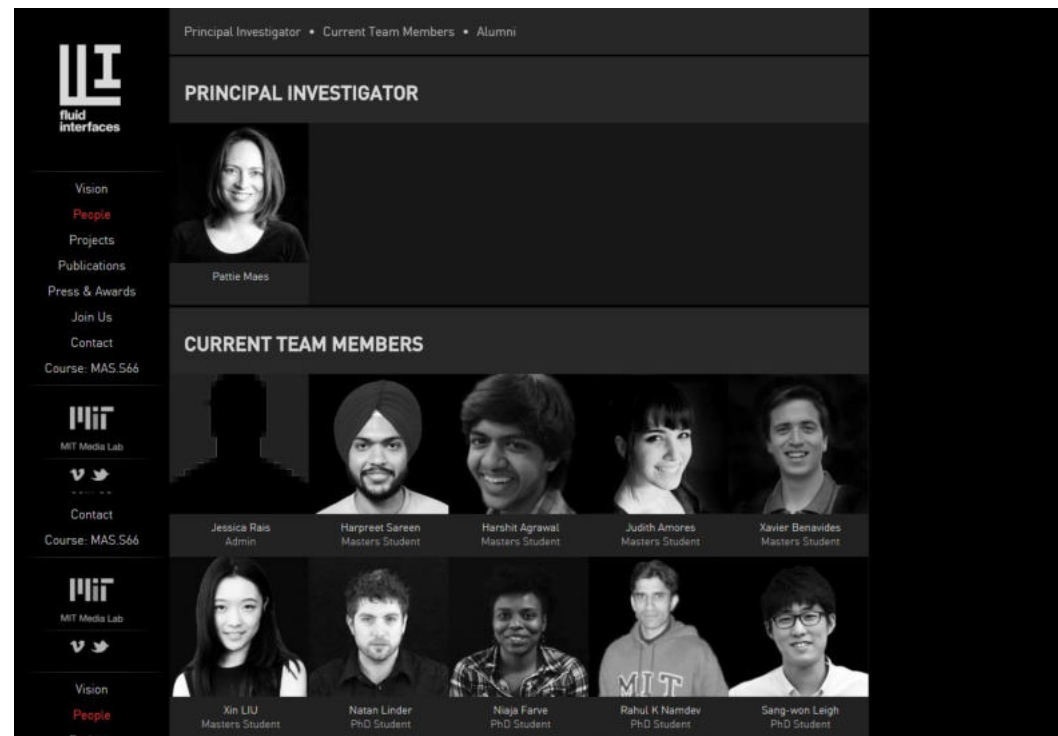
Fluid.media.mit.edu showcase projects, peoples and publications from MIT fluid media labs. Featured Projects and publications are grouped by year. Each project include people involve in it, media (images/video) and resources related to project.

Classification

People - Principal investigator, Current team, Alumni

Projects - year

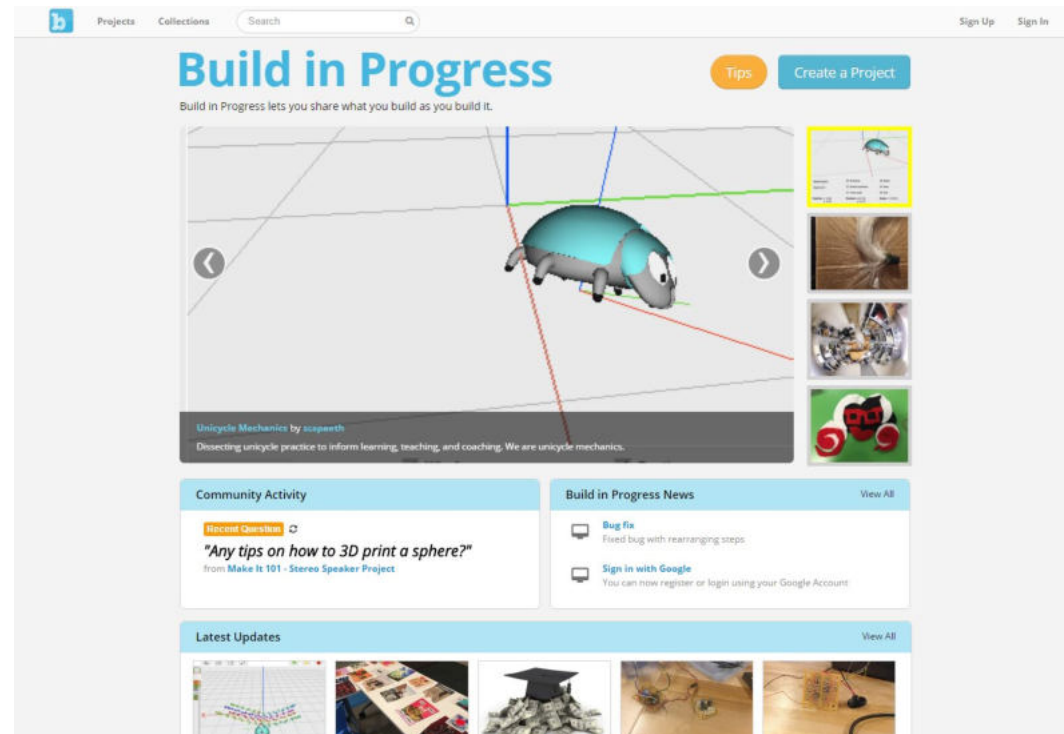
Publications - year



Secondary Research (Portfolio)

builtinprogress.media.mit.edu

Built in progress is a Platform by MIT media labs it is basically to share incomplete work and call for collaboration to complete. A project is divided into its subparts and flow is explained with its requirements.

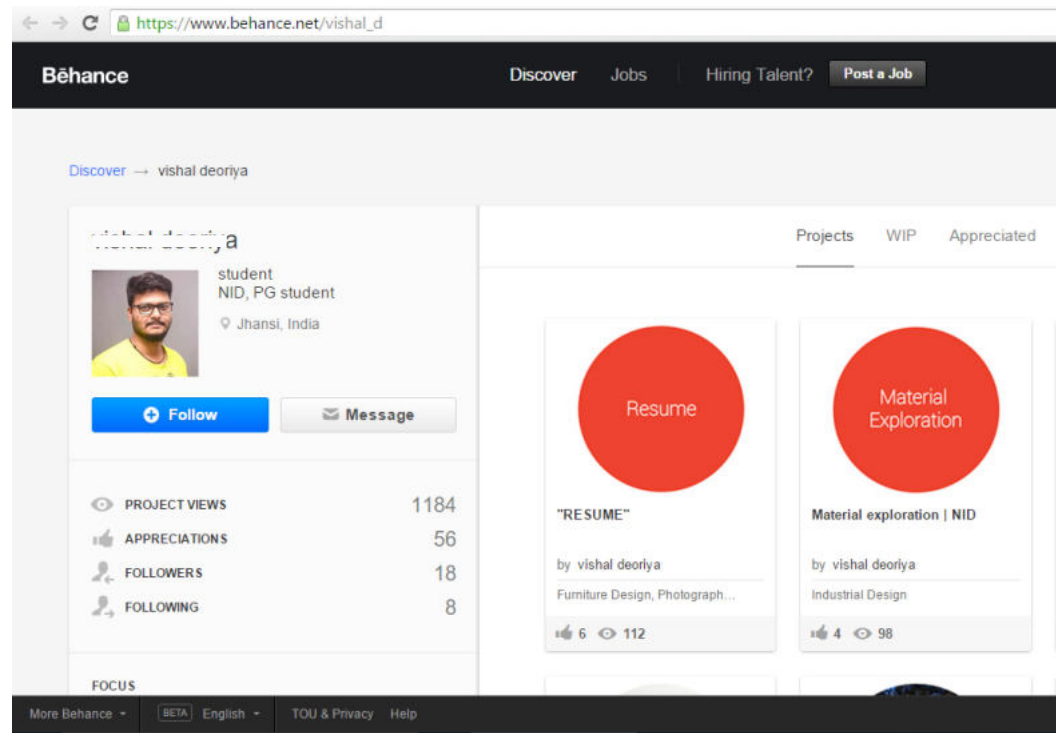


Secondary Research (Portfolio)

Behance and Coroflot

Behance and Coroflot showcases design works and portfolios. These sites are primarily for the users seeking jobs or work. Only polished work goes to these sites. Adding WIP (Work in Progress) in Behance is not very intuitive. Behance allows users to add version to their designs and there is no way to connect a WIP with a published project.

Feedback and comments on these sites contain mostly admiration and are done in the hope of getting admiration to their projects in return. Project presentation focused on prettiness and not on design process or problem solving part of it.



Secondary Research (Portfolio)

Behance.net/galleries/schools

Design schools' authenticated pages on Behance have galleries of projects done in the listed design schools. Its collaboration between design schools and Behance. Project view is same as Behance and it uses students Behance profiles. Only domain name and visual appearance of site is customized according to design school

Filters

Status

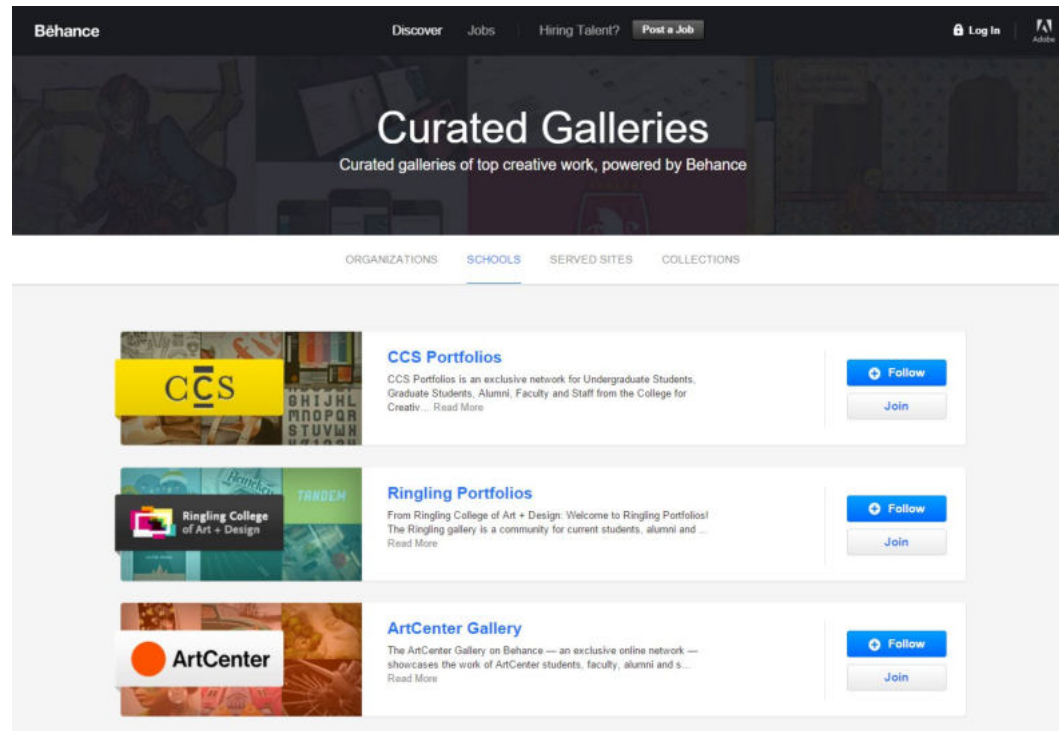
Degree

Department

Creative field

Most Viewed

Time

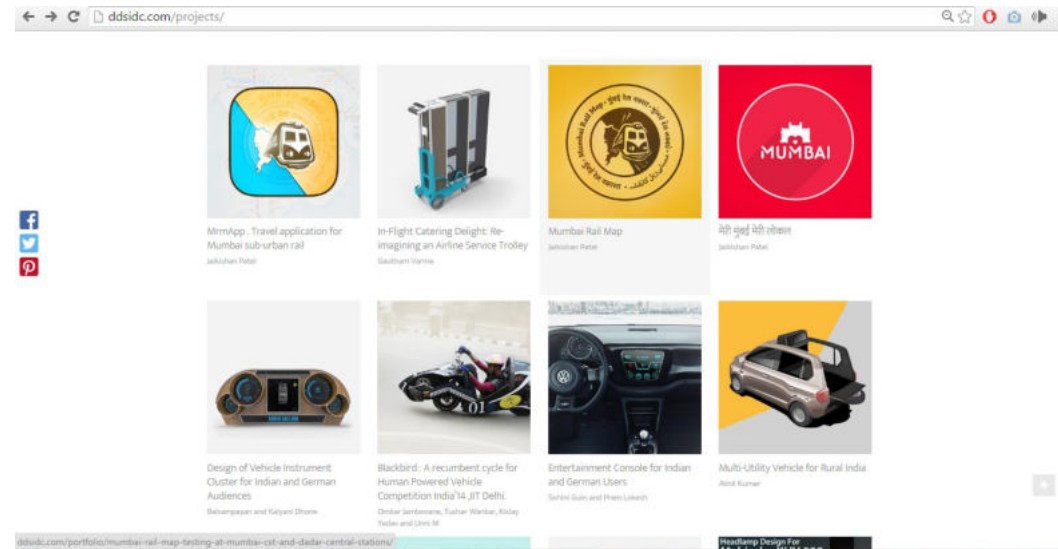


Secondary Research (Portfolio)

Idc.iitb.ac.in and ddsidc.com

Idc.iitb.ac.in holds links for DDS(Design Degree Show at IDC) each year. For each DDS students create a new website the event and to showcase their projects. It contain only fished projects and that to from the final year students. All IDC projects can be shown at one place instead of creating new website each DDS.

Classification
Year
Specialization



Secondary Research (internal sharing platforms)

Blackboard

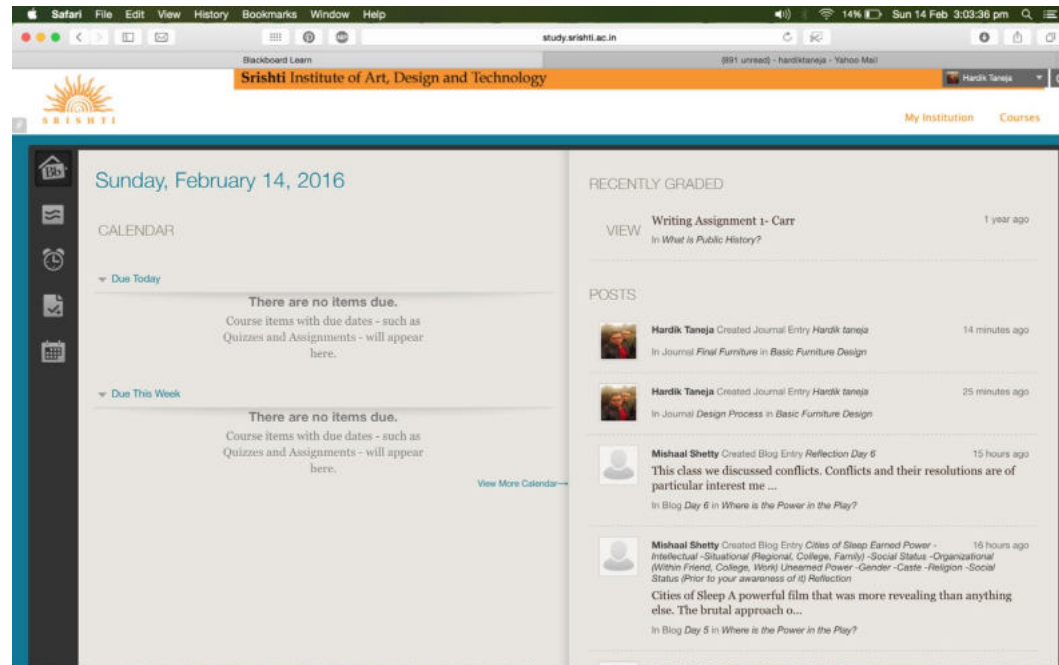
Blackboard is academic management tool provider. Any school can buy and use these services to maintain Online records of assignments, students dashboard, notifications and mailing system, academic calendar etc. It supports resources sharing, communication(mail), notifications, students personal dashboard. Sharing of work is not supported by the platform as access to assignments is restricted to user and concern professor.

Assignments

Calendar

Announcements

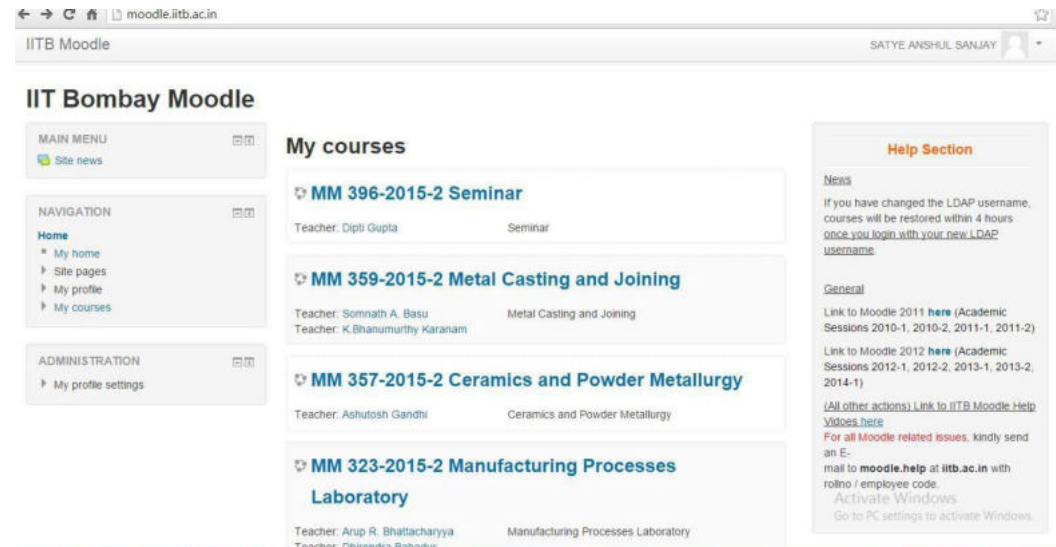
Posts and discussions



Secondary Research (internal sharing platforms)

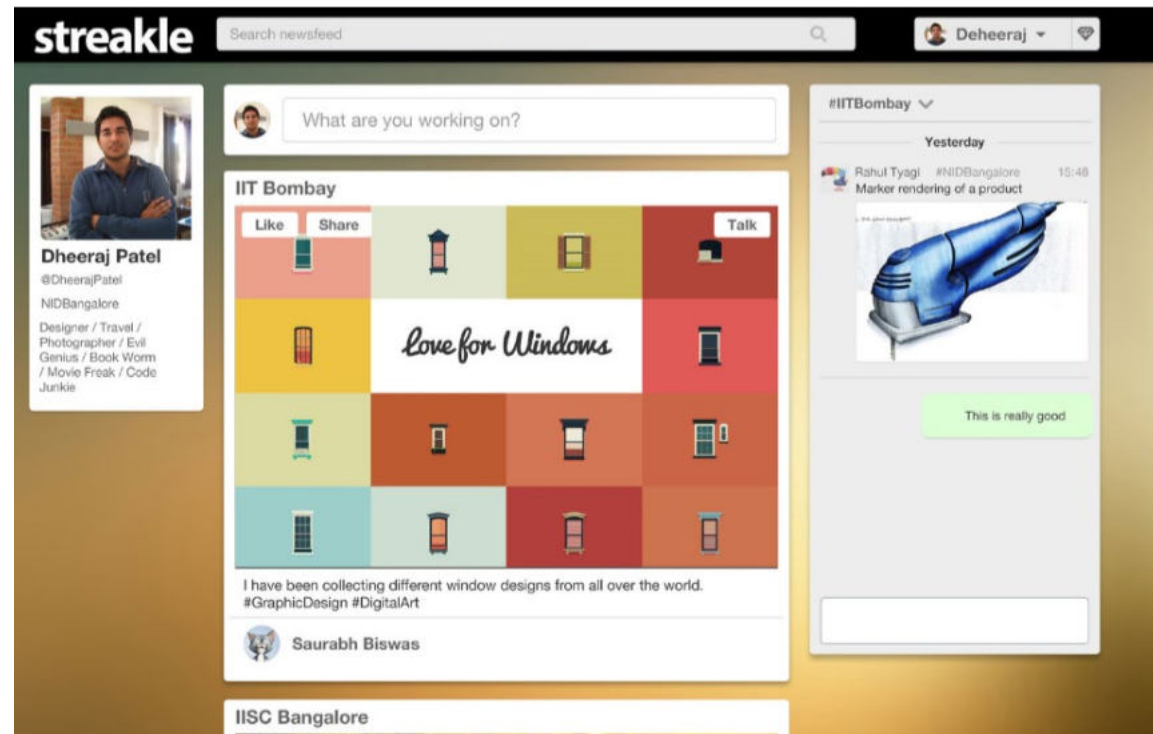
IITB Moodle is IITB's internal academic management platform where students get notification mails and have to submit their assignments for evaluation. Here also sharing of assignment and open feedback is not considered. Iteration and Work in progress is not an option for sharing and none of such academic management platforms include option to exhibit work publicly.

Managements of
Courses
Assignments
Calendar
Announcements
Posts and discussions
Mail system
Resources



Secondary Research (internal sharing platforms)

Streakle is a feedback and networking platform for design students. It works more as a feedback and suggestions community for projects or parts of them posted on the website. A Streakle feed of a designer's profile is a good indicator of process followed only if the designer is active enough on the community. However, it does not act as a portfolio website. It would be difficult for a user to use a Streakle profile as a his/her portfolio. It is good for showing the process, it would however be difficult to view the process followed for a particular project. The project is more like a microblogging platform for designers.

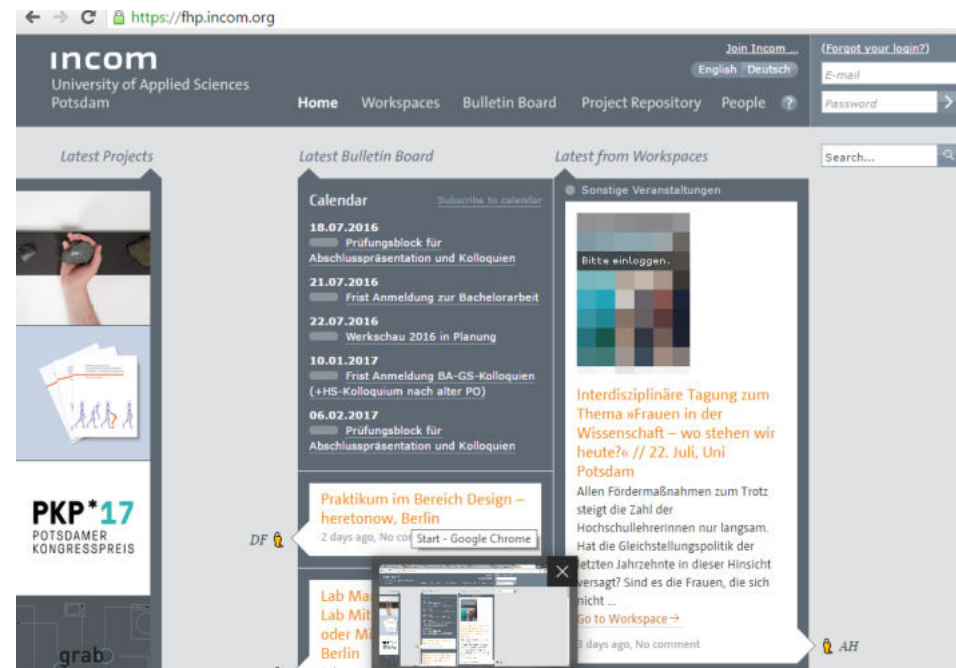


Secondary Research (internal sharing platforms)

Incom.org | Incom university of applied sciences.

It is a website created by the university to showcase students work with the world. Also, you can see people and their work from university. Only people from the university can view these profiles of people as to view profiles you need university's email id. It also consists of a bulletin board which shows updates of the things happening in university. If you're a guest visitor, you cannot see the images in projects. This website is open but the projects can viewed completely only after sign-up. Projects in the project repository cannot be filtered by different subjects which are there in bulletin tab. Workspaces consists of course related information. To find a course, you need to know the course id, you cannot find a course by it's name. The default view of workspaces shows courses,

there is no particular logic in which the courses are arranged. Tutorials, reviews and bulletin boards are present in bulletin board tab. It is difficult to find these sections as they are hidden in the bulletin board tab. All



the observations were made without signing up for the website as the sign up requires university mail id. Advanced features are available after signing up which are unseen.

Analysis of secondary research

Portfolio Websites

Behance and Coroflot are primarily focused on connecting recruiters to designers or help designers to get freelance work. Uploading work in progress on Behance is not intuitive and comments on it are mostly of appreciation. These comments are not helpful in improving on final product. Uploading project on Behance is made easy by giving variety of options on format of data to be uploaded, users can embed media from you-tube, issue and other sites, upload images and include files from adobe cloud.

These websites are not helpful in getting critical comments on ongoing work because of limited reach of every user and it's not possible to validate expertise of the reviewer. Giving a bad feedback publicly is awkward for many users.[1]

Fluid.media.mit.edu and Portfolio.nid.edu both are the websites of design institutes. These sites holds the public display of their work at one place and profiles of people in institute. As MIT is research oriented institution they have publications and resources related to every project. List of publications sums up their contribution in design research. Its helps to understand major research domains in institute and find out expertise of people in it. NID portfolio site holds nothing but the thumbnails of students profiles which are directed to their individual portfolios on Behance and other mediums. Just collecting links for portfolios of all present and past students also helpful in creating a common platform to exhibit students work at NID. Interface is made such that, it is easy to find profile of any particular student at NID. Platform is targeted to industry and recruiters to go through students profile.

Behance design school pages provides limited customization to create any design schools' page on it. Its core functions remains same as Behance. School pages are just a gallery of all students Behance profiles from particular design school. These pages does not play any role in academic management of courses and its documentation of design schools. DDS website of IDC is limited to graduating students and their major projects. The event is mostly at end of the academic year and after placements, so students profiles on this site is not meant to be sent to recruiters for review. All the projects showed on DDS website are complete, no 'work in progress' is shared there. Students have their portfolios on other platforms by the time of DDS and additional efforts to create yet another portfolio for DDS.

Blackboard and IITB Moodle

These platforms are basically made for online management of academics courses and sharing of resources. These platforms are made to submit assignments to concern faculty only. It is not designed considering intermediate stages of projects and feedback on it by faculty or other people. For any platform to manage these things for design assignments it should accommodate feedback on intermediate levels of project/assignment and iterations of the same.

Background and User studies

In process to create a platform from combination of academic management and portfolio creation, major user and stakeholder is students at IDC. To understand students requirements and pain points. I conducted interviews and discussion sessions with IDC students involving B.Des, M.Des first year and M.Des second year students across all streams in IDC.

Objective of interviews and discussions was to know if they have online portfolio already if yes when it was updated last time, when it was created and for what purpose ? and for those who don't have presence of their work online , why they didn't create it yet and how they are planning to document their work at IDC. Question also involved if there is IDCs' own platform to exhibit their work will it be useful and will they use it as place to hold their portfolios.

Most of M.Des students don't have their online portfolios, and majority of them are from non-design background. Common reasons for not having online portfolios are

Lack of presentable work - Students from non design background have only projects and assignments at IDC to showcases in their portfolio, these assignments are not properly finished and polished and fit to upload on Behance or other sites.

Hesitation - B.Des and M.Des first year students feel that their designs are up to the mark to post in public and they hesitate to put it online, there is a fear of comparison of their work with others outside IDC.

Lack of time - Making portfolio means to clean and polish all previous projects and make it compatible with existing platforms, it requires time that students can do

because of ongoing courses and projects, B.Des first year students were planning to compile their work in entire year and create design portfolio in summers vacations.

Outputs of assignments - All portfolio sites are good to present designs in graphic format but outcomes of assignments at IDC differs for different modules, sometime it can be a physical prototype, a book, video, screens or a clay models. These outcomes are then need to be presented in formats suitable for portfolio hosting site. Sites like Behance and Coroflot are centered on visuals of projects and not design process part of it. It is one of the reasons why students don't put their design solution online as they are well conceptualized but poorly visualized

Documentation of coursework is necessary for evaluation and is managed by concern faculty. Faculty might collect all assignments

on Drive or Dropbox or any other place. For some students their Teaching assistantship job is to collect and document coursework for particular faculty and showcases it on website or just document well.

Most of students and faculty are unaware of many projects going on in IDC across various streams, some of the students were not even aware about their batch-mates project topics.

In this situation seeking feedback and suggestion from faculty or students from other streams is difficult for student.

Meeting faculty for feedback on projects takes a time in waiting for availability of faculty. A platform to share ongoing projects within IDC can help faculty and students to be aware of current projects and to be get involved, critique and comment.

i asked for feedback on idea of having IDCs' own portfolio website and connecting it to academic management. Student were excited it can be seen from these user statements " if it was there before i would have created my portfolio on it first." " I wonder why such platform is not there yet" " it would be pride to send IDC portfolio link to recruiters than sending Behance link". Doubt raised in these discussions about this platform helped in taking various design decisions.

Response to an idea - At end of discussion

Insights & Design Opportunities

A project need to be documented for submission/presentation at IDC and same again need to formatted to a content suitable to upload on portfolio sites mainly Behance.

Every assignment is uploaded/submitted to respective faculty using different mediums usually G-drive, Dropbox or mail.

TA work for many students at IDC is to document course work of respective faculty.

Students are unaware about many of projects undertaken by their batch-mates in IDC.

Students usually don't get feedback on their project by faculty other than Guide and seeking feedback from faculty other than guide is time consuming activity.

Even though feedback in intermediate stages of project helps to improve outcome of projects there is no platform to share your ongoing work with in IDC community.

Expertise and advice of faculty other than guide may be helpful in many of the projects.

All students work and portfolios hosted on IDCs' official platform will be useful to go through all work at IDC and students profiles for recruiters, IDC aspirants, design enthusiasts etc.

Hosting portfolio on IDCs' own platform can motivate students to create and update their profile on such platform.

Chances of collaborative projects can be more if students are aware of all ongoing projects at IDC.

Combining the academic management and portfolio will save the time of creating portfolio and again a motivation to complete assignments to presentable level where they can add it to portfolio.

Documentation of projects and resources related it will ease the browsing through previous projects at IDC related to any topic or domain.

Project brief

Design a platform to document and exhibit students' work at IDC, which will enable Internal and external sharing of in-progress and completed work and projects and simultaneously creates and maintain students' portfolio.

Basic idea

From primary and secondary research i concluded the basic functions or targets that design solution should achieve in this case, a platform which meant only for sharing work won't achieve documentation needs. Platforms studied in secondary research archives different parts of the goals for the this proposed platform. So i decided to combine functions of the academic management and design showcase platforms. Behance and other platforms are all public and if you want to save incomplete work as draft it is not visible to anyone. Academic management websites are focused on just giving assignments and collecting responses online. Communication and visibility in these platforms is limited students and mentor only and there is no space for iterations and feedback on ongoing work. In design it is important to accommodate iterations and intermediate level feedbacks. Also four levels of sharing

will help user to share his/her work in steps and improve it and finally make it public. Sharing in intermediate levels like sharing with class or IDC will help to get actionable feedback. As found in primary research students are not hesitate to share work within IDC and they also welcomes feedback on incomplete work. Students are comfortable in sharing work within IDC because of limited members in community and users are aware of design process we follow and they believe in credibility of other user giving feedback on their work.

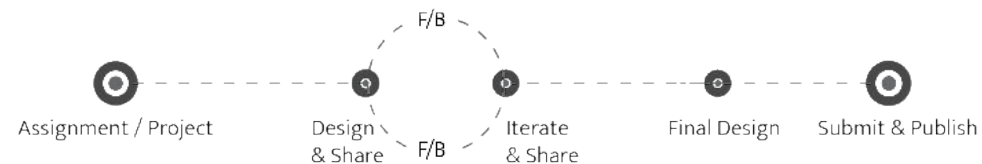
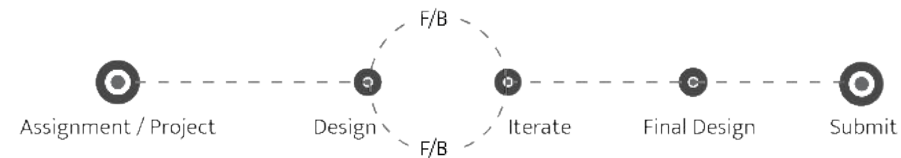
Basic idea

Stakeholders	Students at IDC	Faculty at IDC	Others (Recruiters, IDC aspirants, Design enthusiast)
Functions	Assignments Get reviews and Feedback Showcase completed work Official website to showcase portfolios help	Documentation Send Notifications Assignment brief Resources	Platform to see all IDC work at one place Search and browse through projects

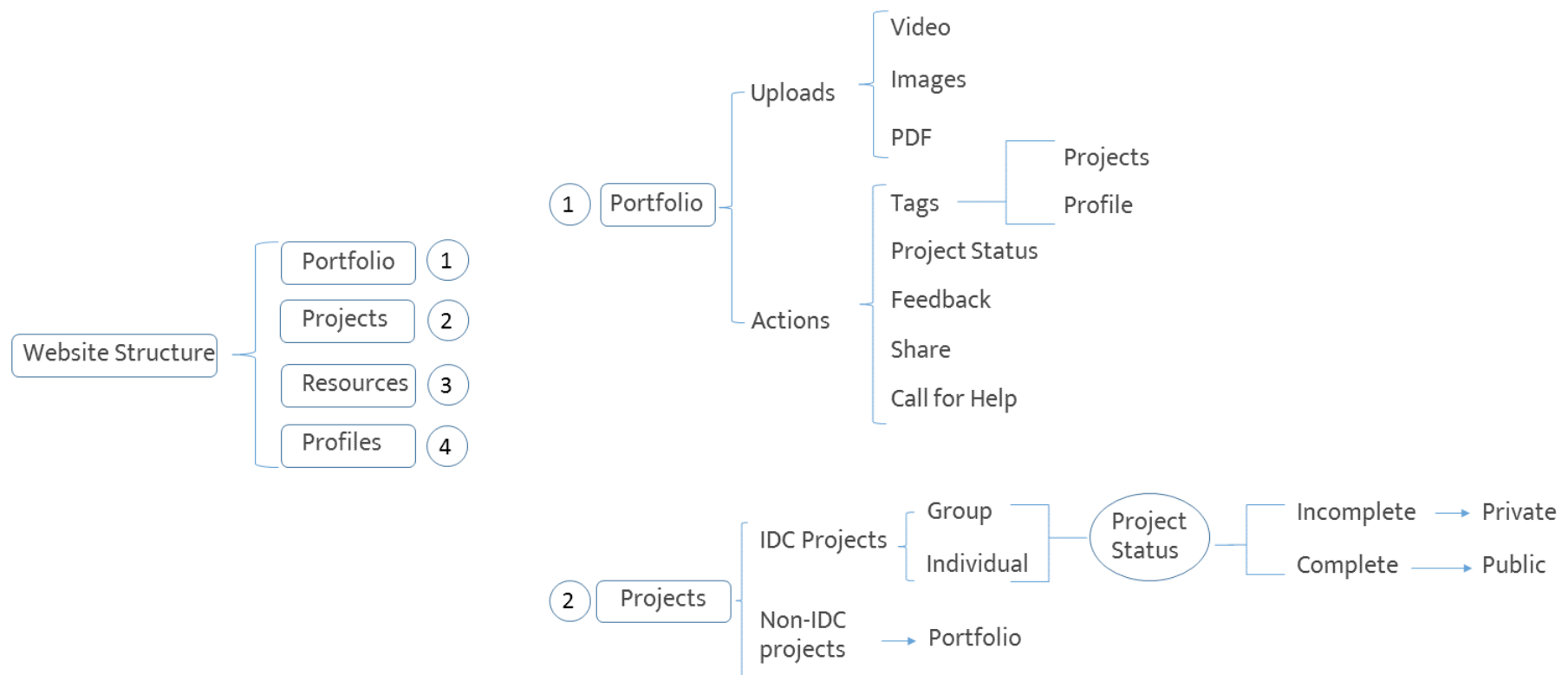
First and second diagram presents the current flow of working on any assignment/project and creating a portfolio respectively.

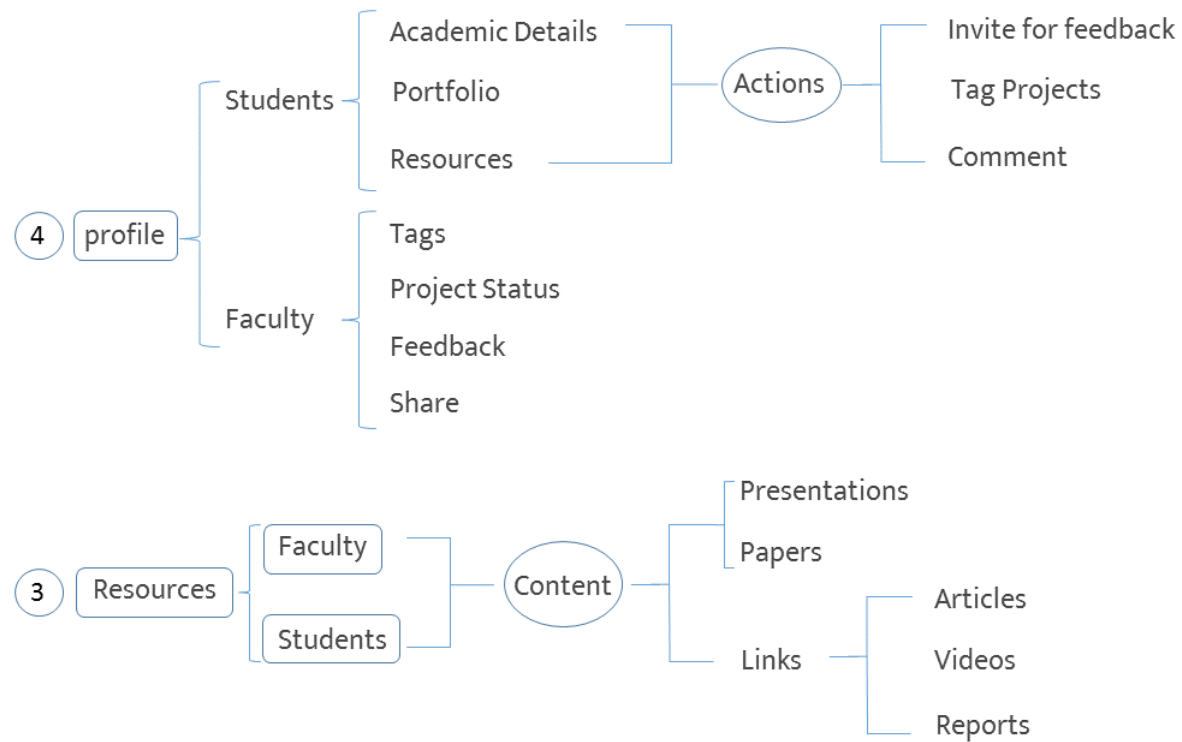
Third diagram is proposed flow which combines the output of design assignment/project to portfolio.

Adding intermediate levels of sharing facilitate publishing project or assignment step-by-step. Positive comments and feedback on these stages can encourage students to publish it while critiques and actionable feedback will eventually helps in improving the quality of final output which can be published after some iterations.



Information Architecture (initial)





Card sorting

To come up with appropriate information architecture a card sorting is done with 5 IDC students including 1 B.Des, 2 M.Des first year and 2 M.Des second year students. Open card sort method is used for this activity students were free to add or remove cards. Initial card are made up of categories in previous IA and users included additional cards they required

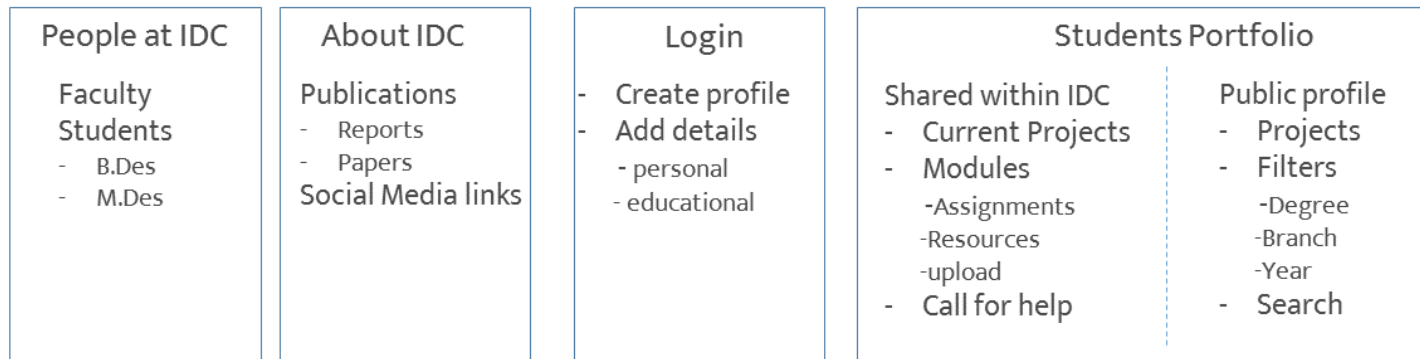
Results of card sorting activity then analyzed to find common pattern and final information architecture is based on categorization found in the analysis of this card certain activity.

Cards	Filter	Batch	Notifications
Home page	Name	Specialization	Call for help
Student dashboard	Keywords	Interest	Create profile
Faculty dashboard	Login	Add module	Work in progress
Publications	Vision	Assignments brief	Portfolio
People	Images	Faculty name	Finished project
Students	Video	Upload assignment	Incomplete project
Faculty	About IDC	List of assignments	Ask for feedback
Links to the social	Publication	Resources	Feedback
Media	Papers	Module	Add module
Faculty	Create profile	Media	Download
Degree	Name	Add project	assignments
Batch	Photo	Description	List of students
Department	Roll number	Add people to	Resources
Creative field	Ldap ID	project	Assignment brief
Search	Ldap password	Feedback	
	Degree	View my profile	

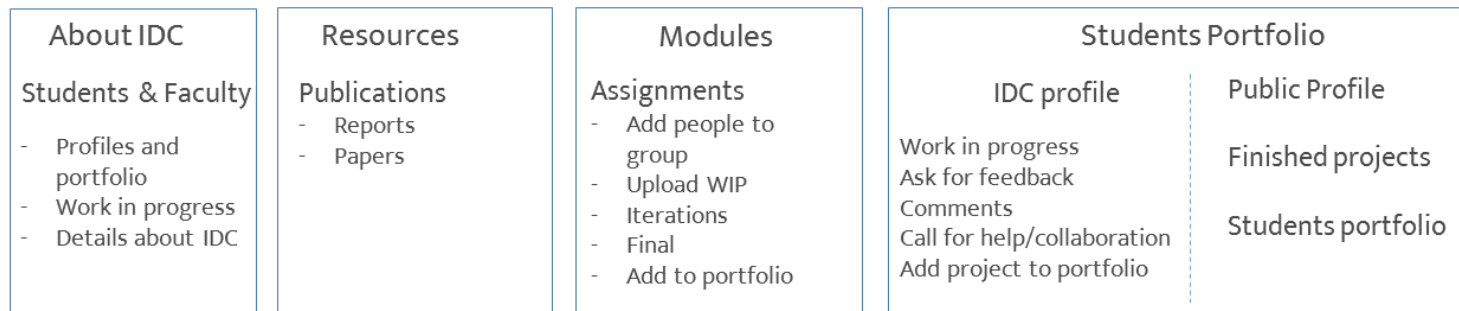


Card sorting

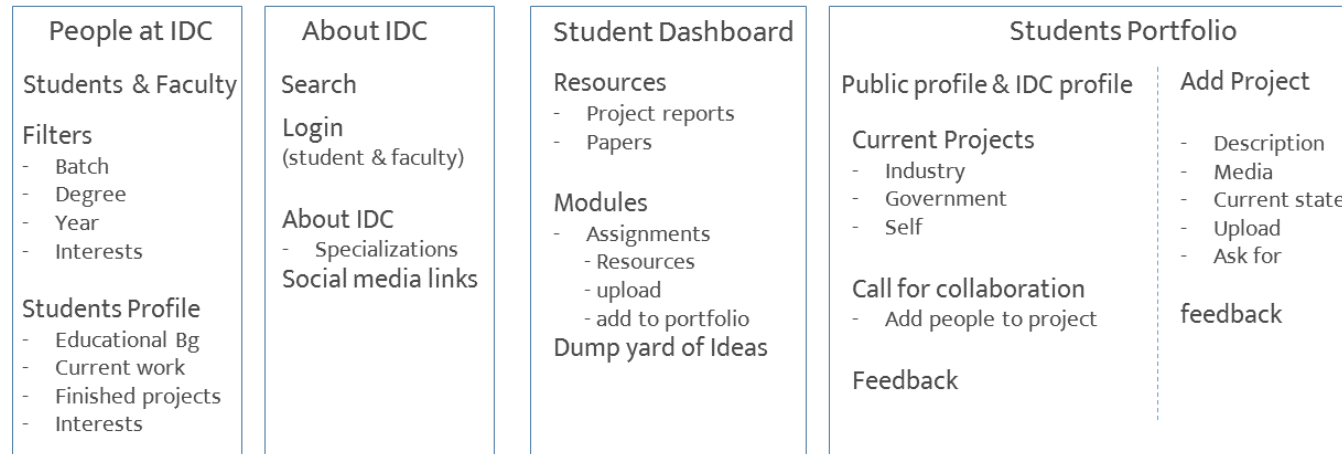
Card sorting, User 1



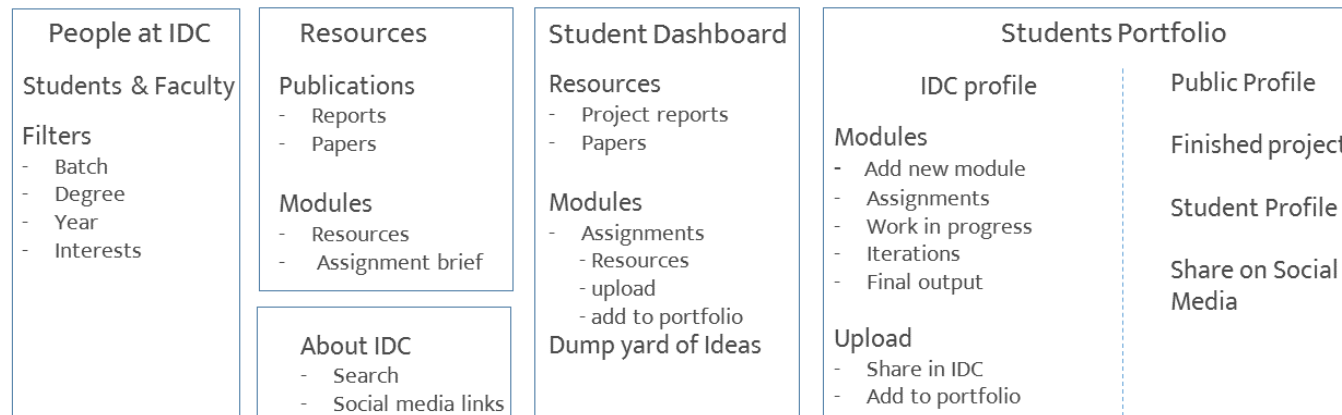
Card sorting, User 4



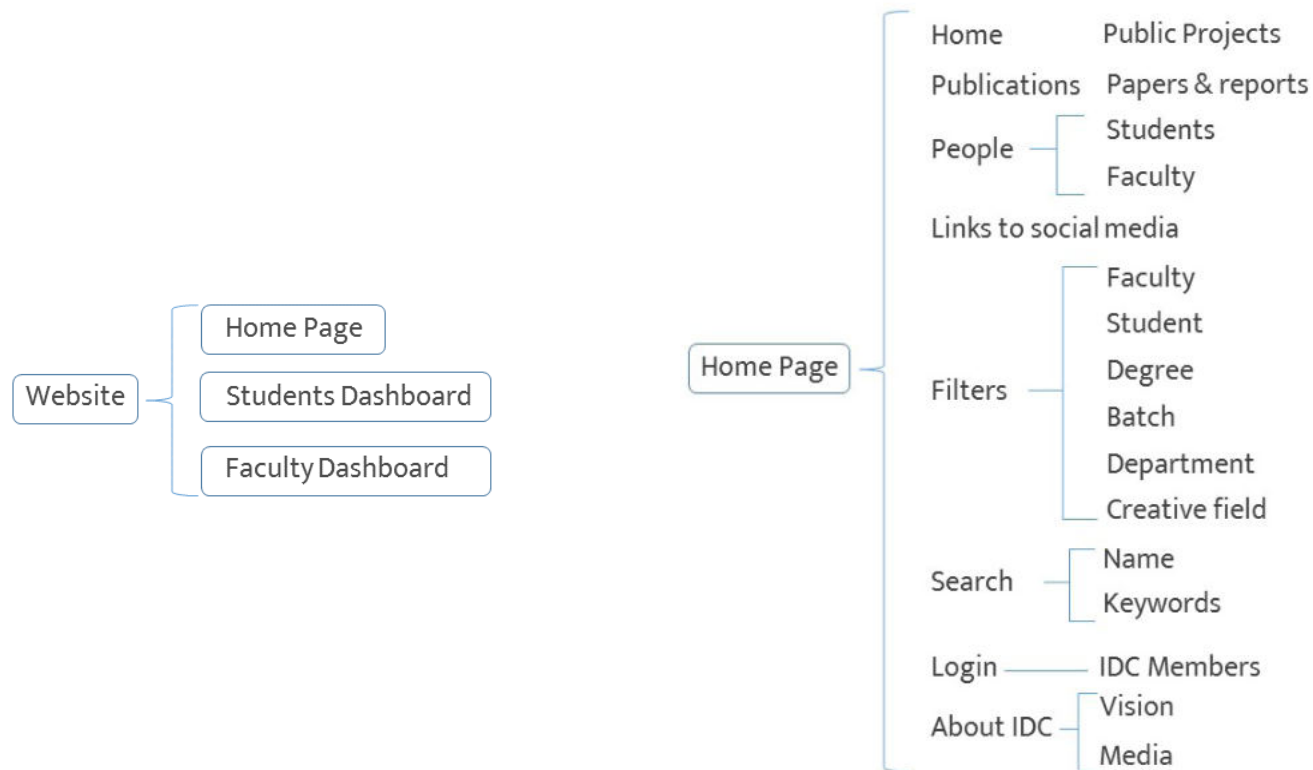
Card sorting, User 2



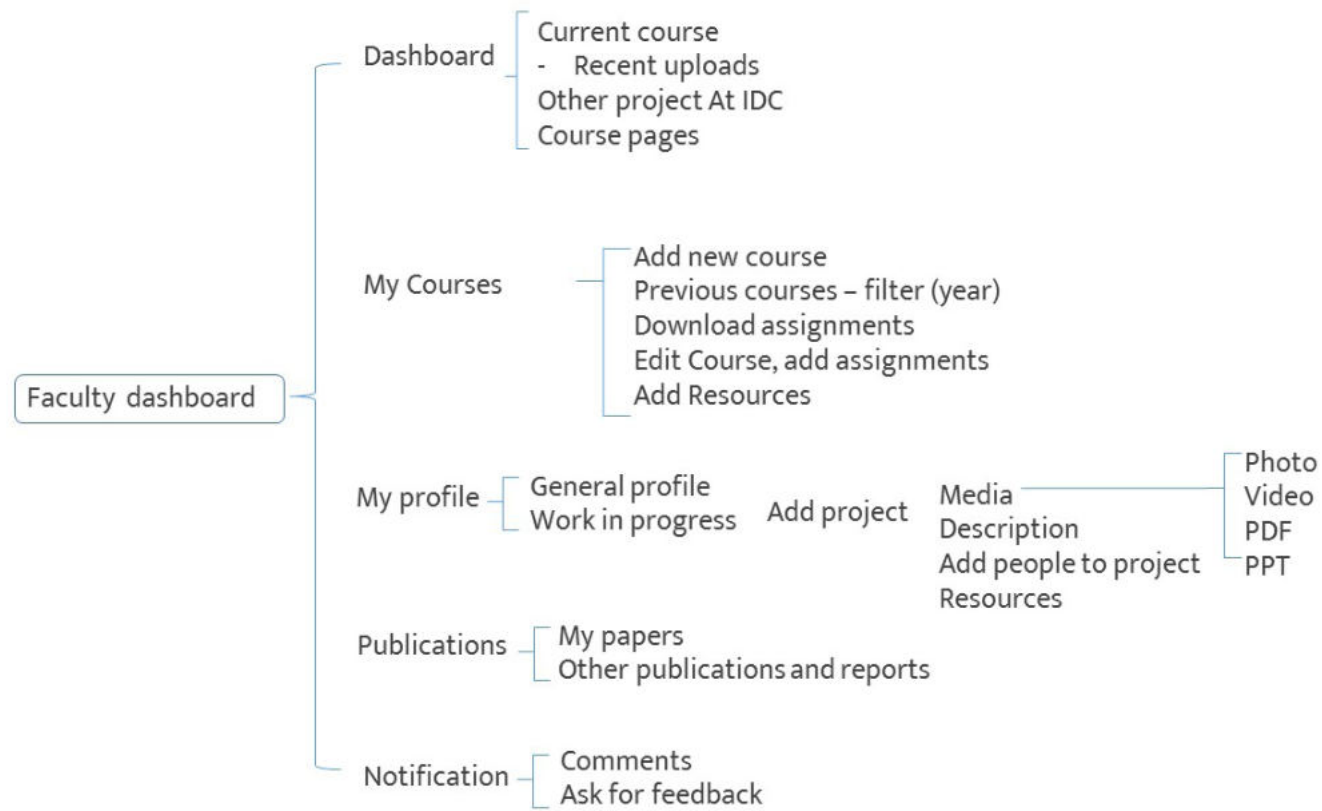
Card sorting, User 3



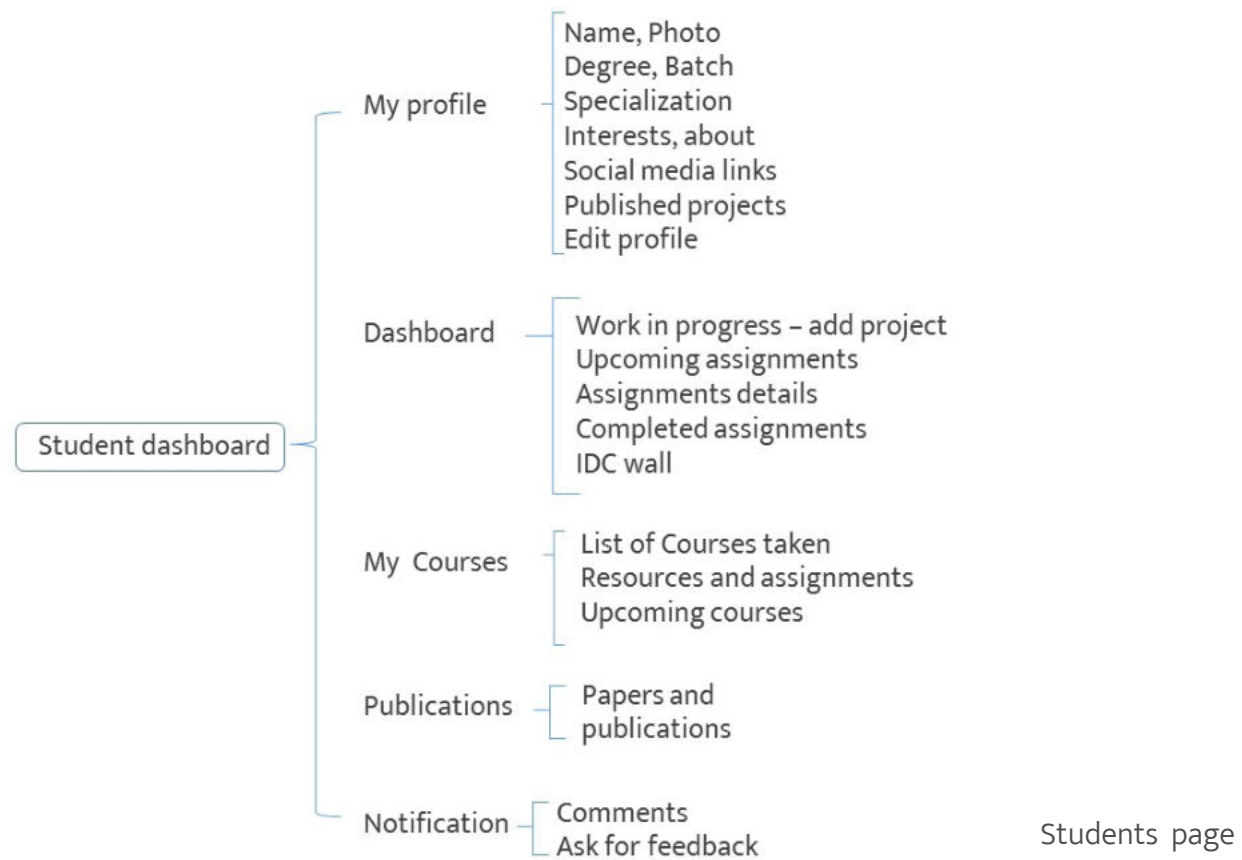
Information Architecture (Final)



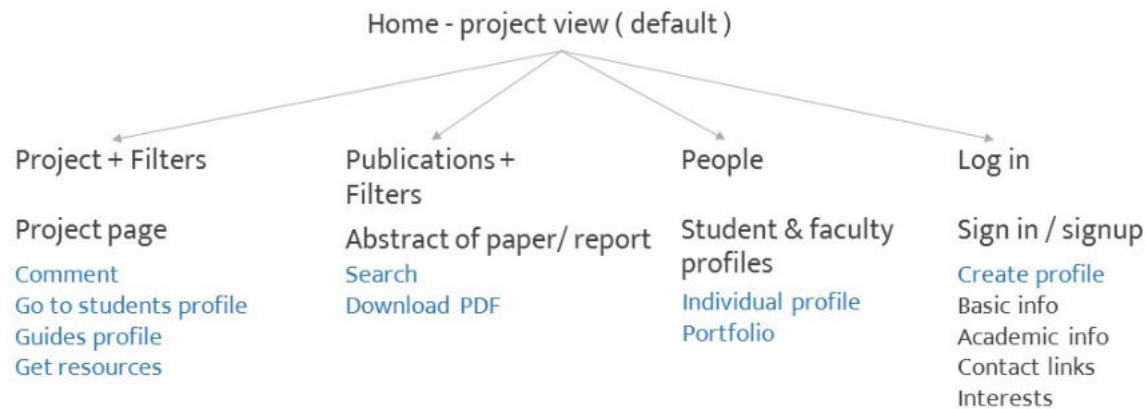
Public page



Faculty page



Web-flow



Project view

Description
Media
Resources
Project by
Guided by

Go to Students profile
Faculty profile
Comment
Get resources

Modules page (faculty)

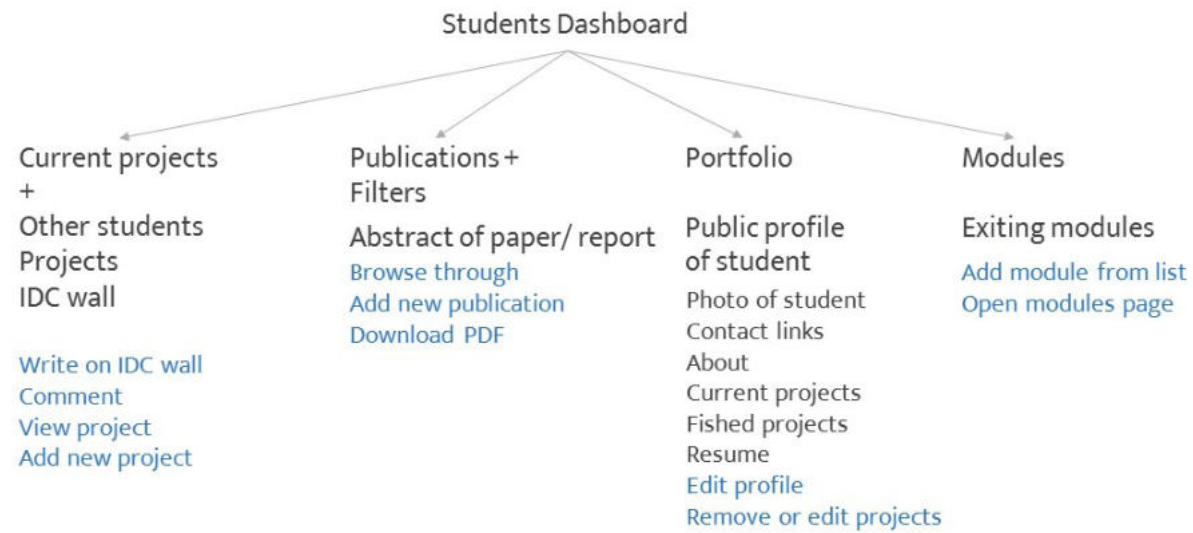
Resent uploads
Assignment wise
Updates/ uploads

Download
all assignments
Comment
Edit modules page.

Modules page (Student)

Details of module
Description
List of assignments
Resources

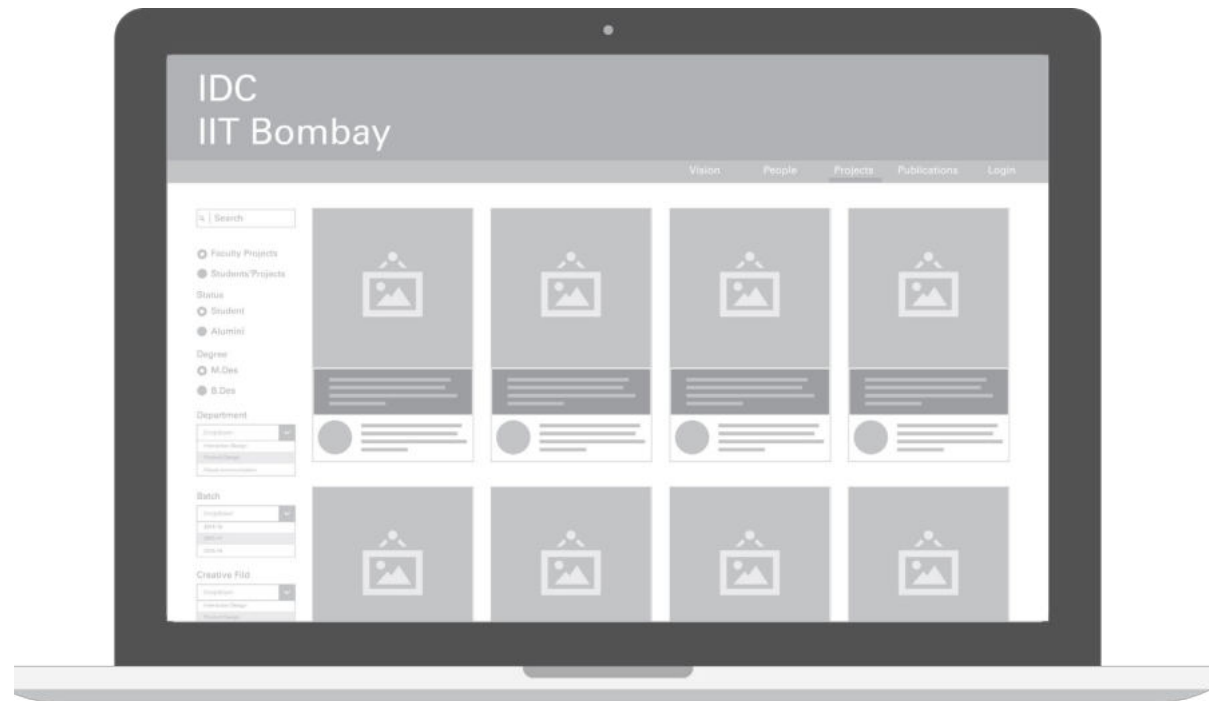
Download resources
Upload assignments
Edit existing submission
Publish it in portfolio



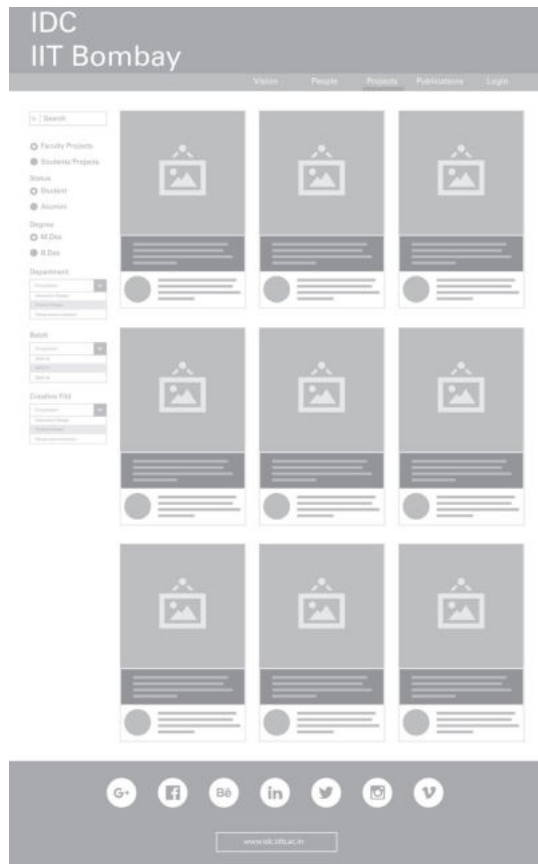


Wire-frames

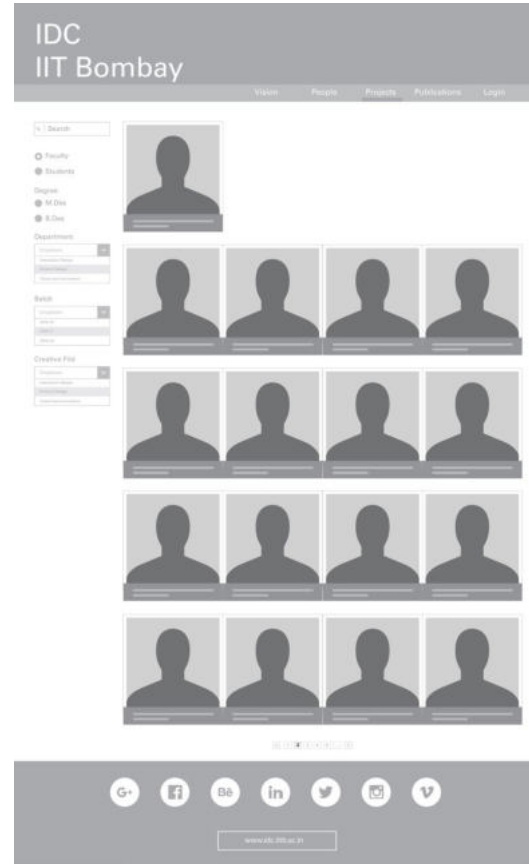
A low fidelity wire-frames are made to visualize the information architecture. Wire-frame shows the hierarchy and structuring of information on screen and how it should be presented. Interactions for filters to search desired projects and profiles. Basic idea of elements on screen and navigation through content helped in visual design of the website in later stage.



Homepage



People



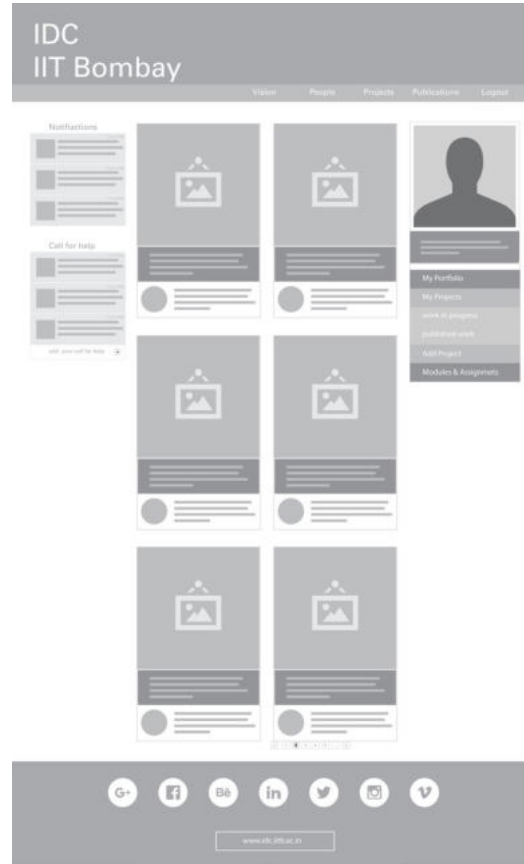
Publications



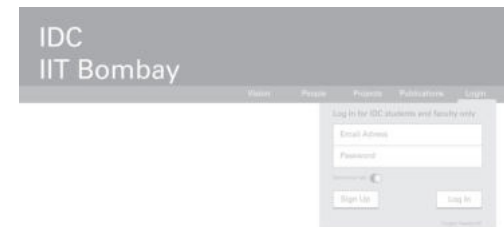
About IDC



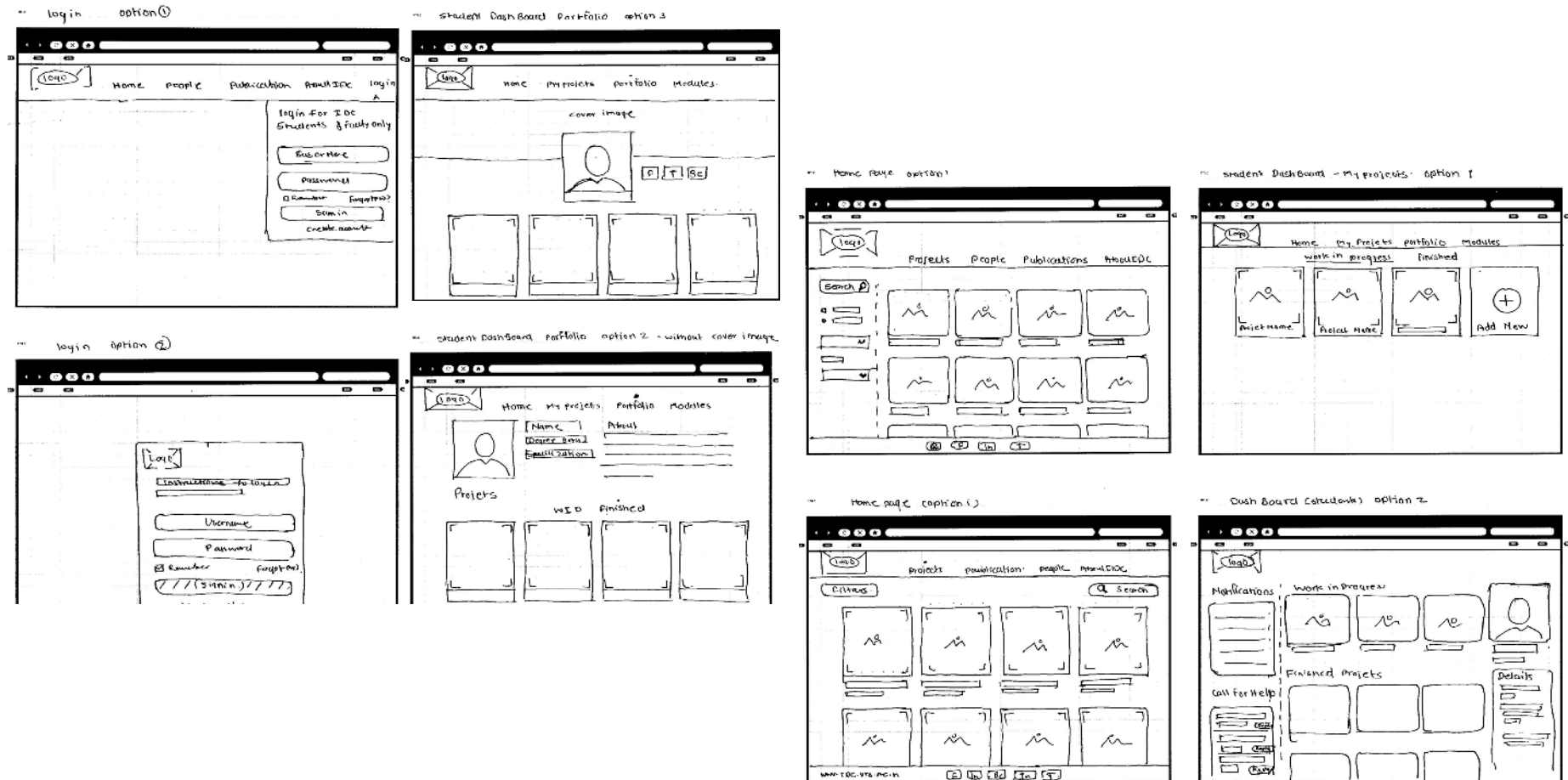
Student Dashboard



Log in

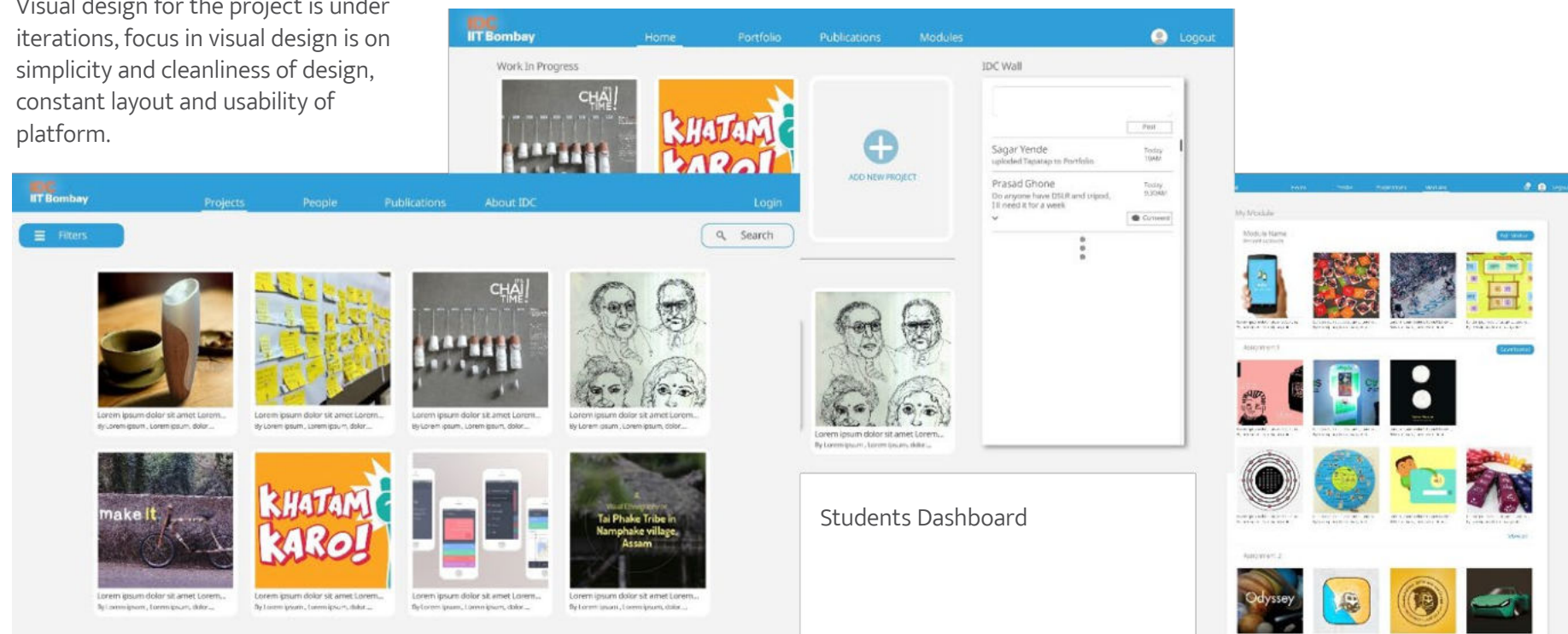


Paper wireframes



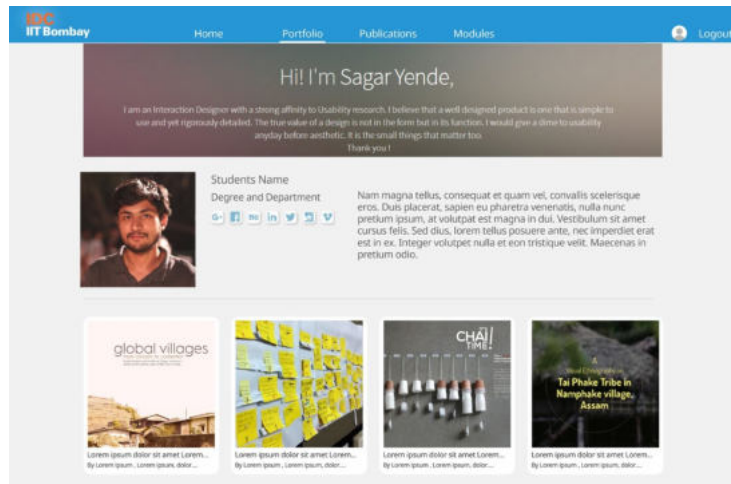
Visual design Iteration 1

Visual design for the project is under iterations, focus in visual design is on simplicity and cleanliness of design, constant layout and usability of platform.

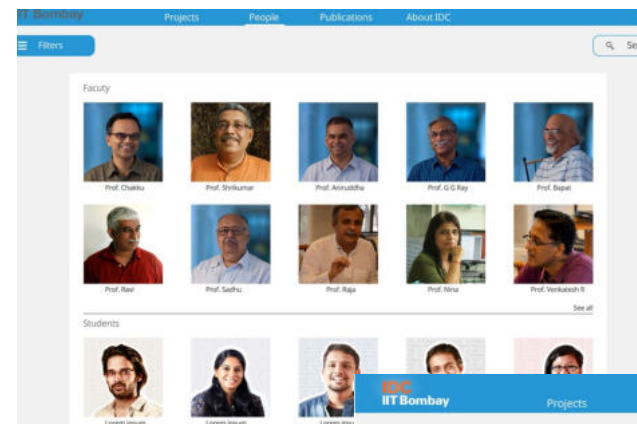


Homepage - Showcasing students projects

Faculty Dashboard

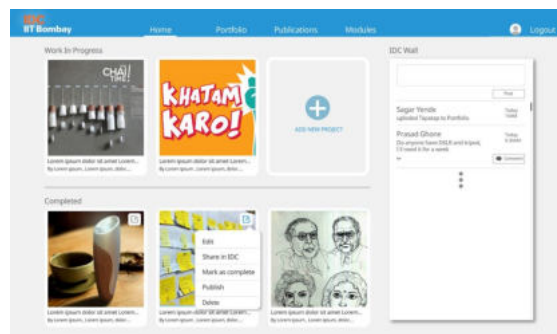


Student Public profile

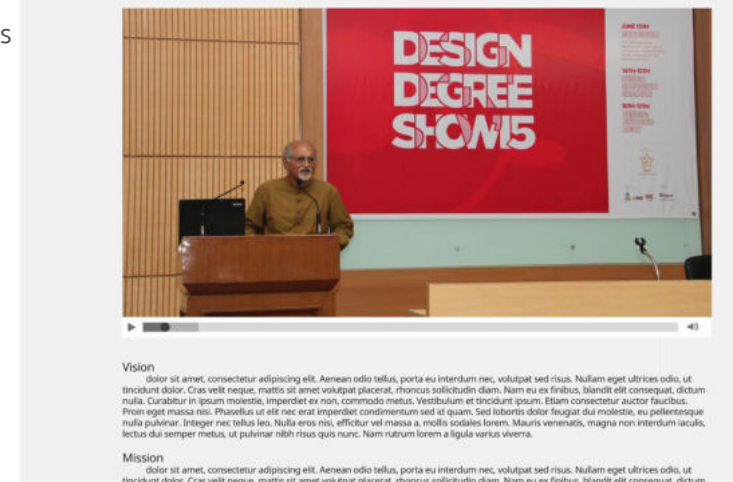


People in IDC -
Student and faculty profiles

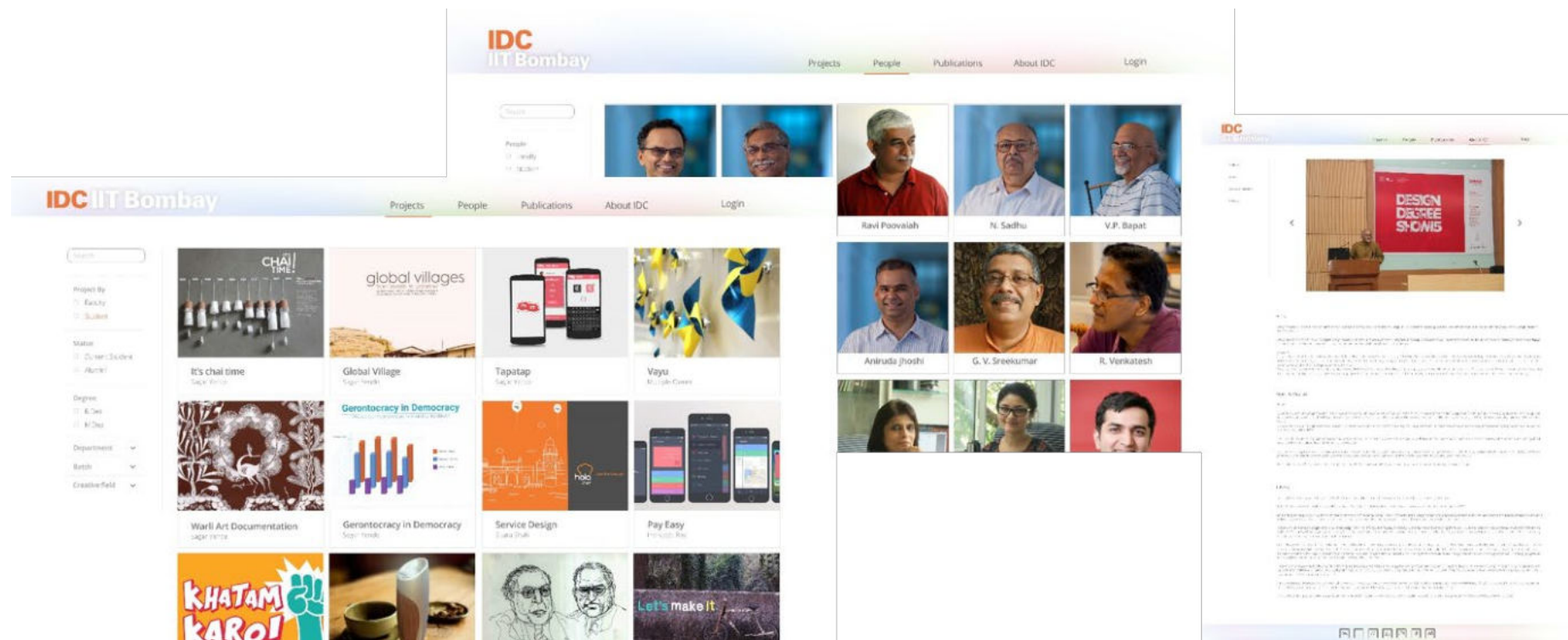
About IDC



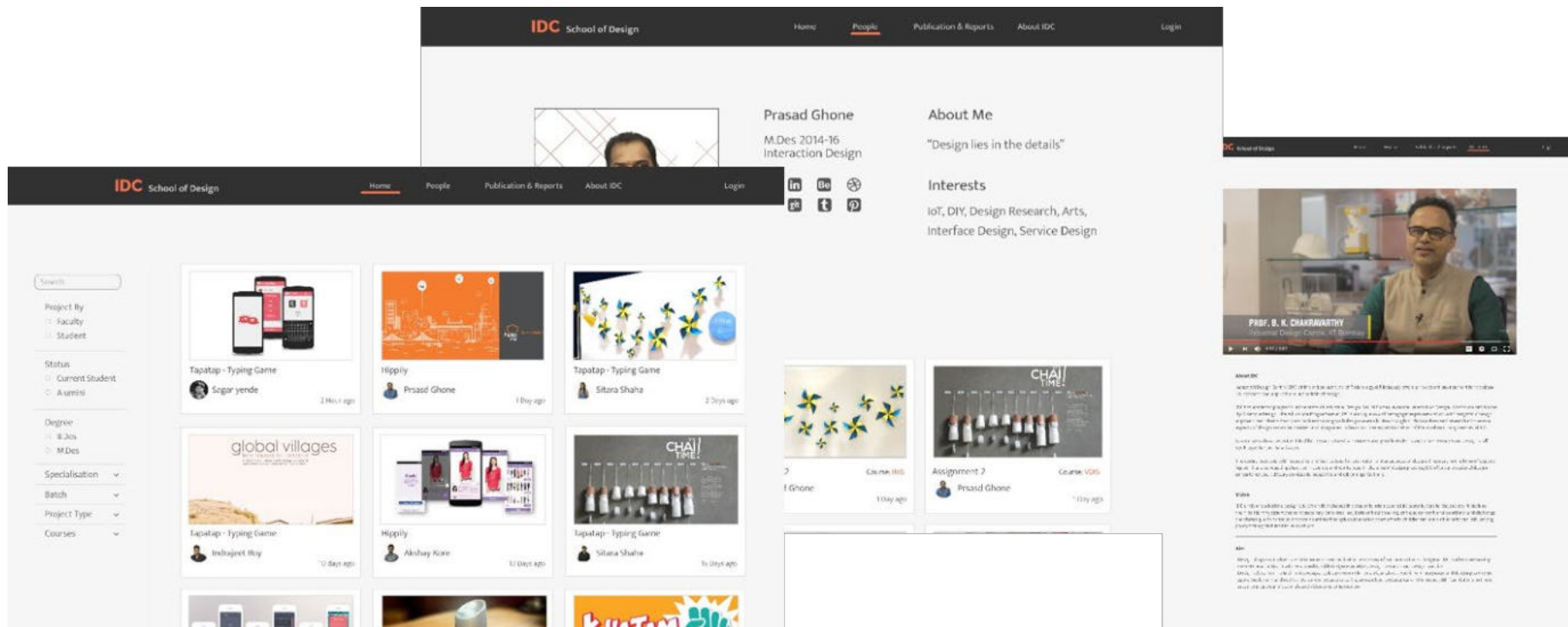
Student Dashboard



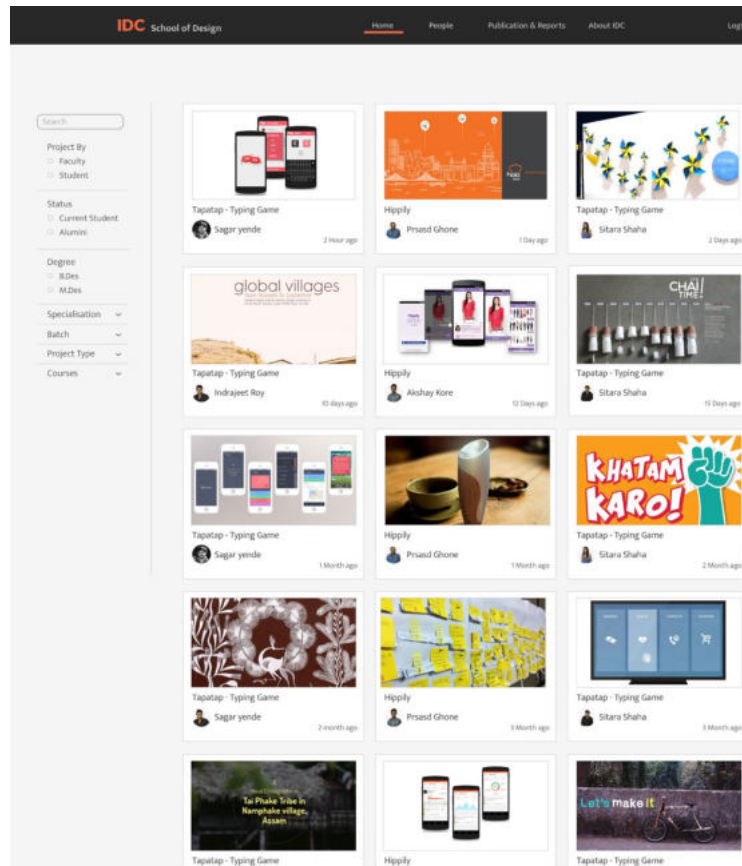
Visual design Iteration 2



Visual design Final

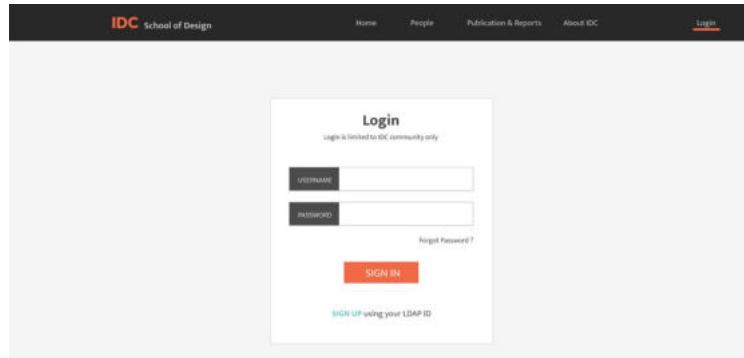


Scenario 1



Journey of new student uploading his first assignment of first module Visual Syntactics

On home page student can see public display projects recent ones on top. He can browse through the Projects of students shared in public without log in.



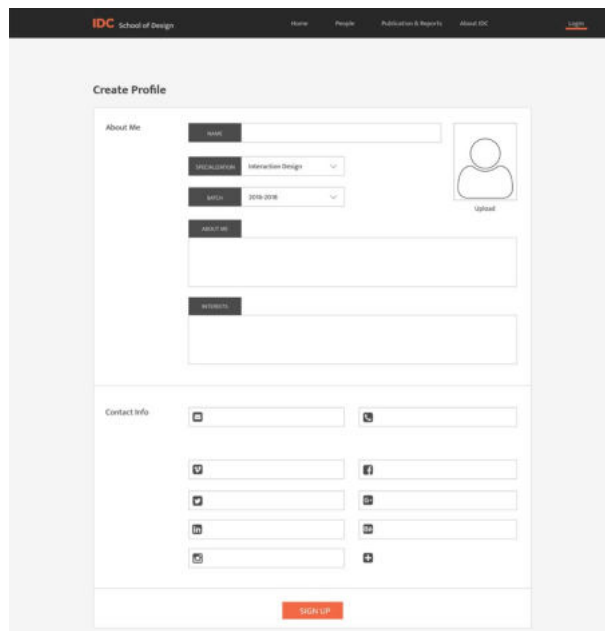
The login form is centered on a light gray background. It has a dark header bar with the IDC School of Design logo and navigation links. The form itself is white with a dark border. It contains fields for Username and Password, a 'SIGN IN' button, and a link to 'SIGN UP using your LDAP ID'.



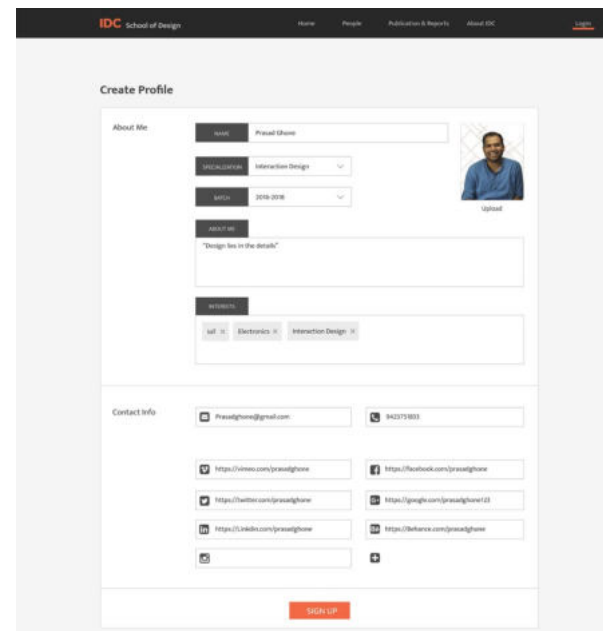
This is a 'Sign up' form with a dark header bar. It contains fields for LDAP ID and Password, a 'NEXT' button, and a link to 'SIGN UP using your LDAP ID'.



This is another 'Sign up' form, identical to the previous one, showing the same fields and layout.



The 'Create Profile' form is a complex form with a dark header bar. It includes sections for 'About Me' (Name, Email, Phone, Address, Bio, Photo) and 'Contact Info' (Email, Phone, Social Media links). It has a 'SIGN UP' button at the bottom.



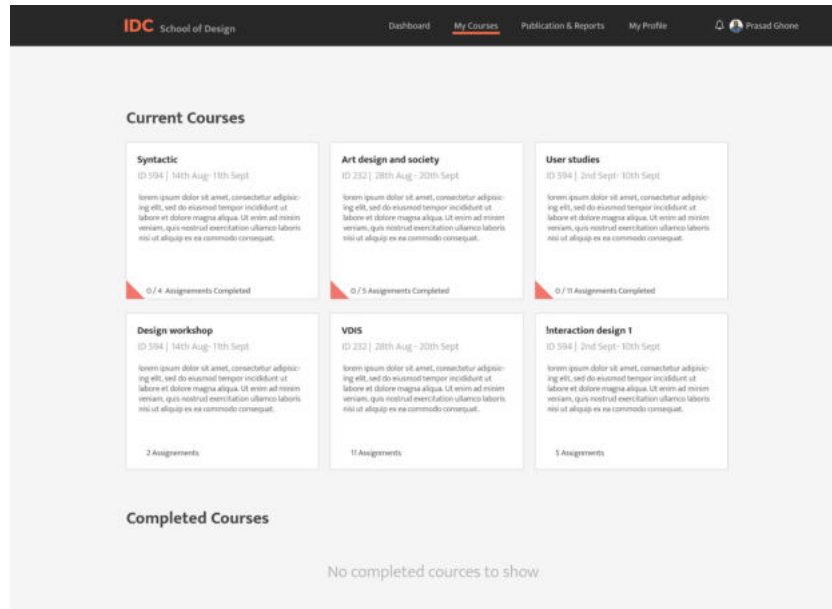
This is the 'Create Profile' form with sample data filled in. The 'About Me' section includes a profile picture of a man. The 'Contact Info' section includes a phone number and social media links.

User can sign up with LDAP ID and password. System will verify the ID and Password and update the information about courses and profile from ASC account of student. Student have to fill the miscellaneous information like profile picture, Interest areas, social media and other links to create account.

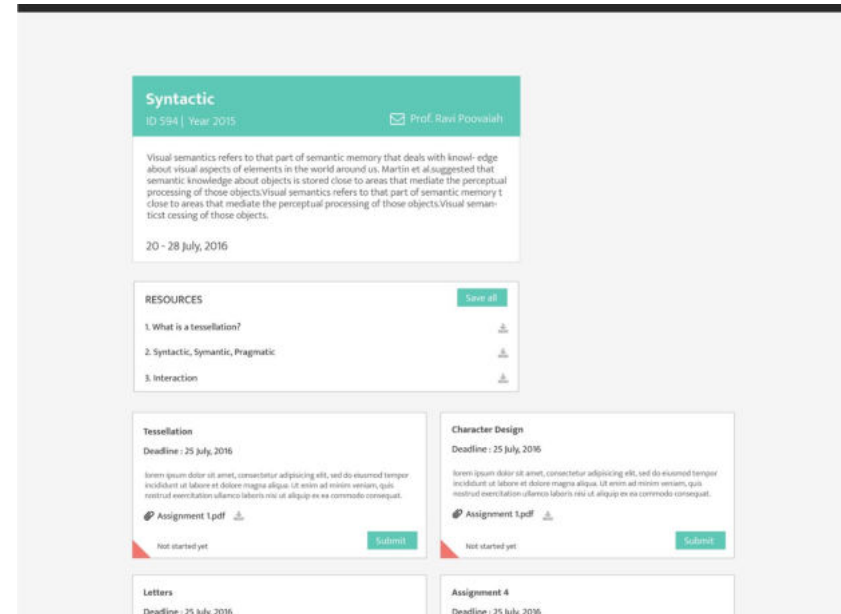
The screenshot shows the IDC School of Design dashboard for a user named Prasad Ghone. The dashboard is divided into several sections:

- Upcoming Deadlines:** A green box on the left lists two assignments:
 - Syntactics | Assignment 1** (July 12 - 3 Days Remaining)
 - ADS | Assignment 1** (July 18 - 9 Days Remaining)
- Work in Progress:** A section titled "No work on progress to show" with a "New Project" button.
- Completed:** A section titled "No projects to show".
- IDC Wall:** A social feed on the left showing updates from other users:
 - Sagar Yende updated Tapaatap to his profile (11:29 am, Today)
 - Indrajeet Roy asked for a DSLR and Tripod (11:23 am, Yesterday)
 - Sitara Shah shared a project on "Interest bades Ride Sharing" (11:23 am, 12 Jun)
 - Sagar Yende uploaded "Chai Time" to his profile (10:23 am, 11 Jun)

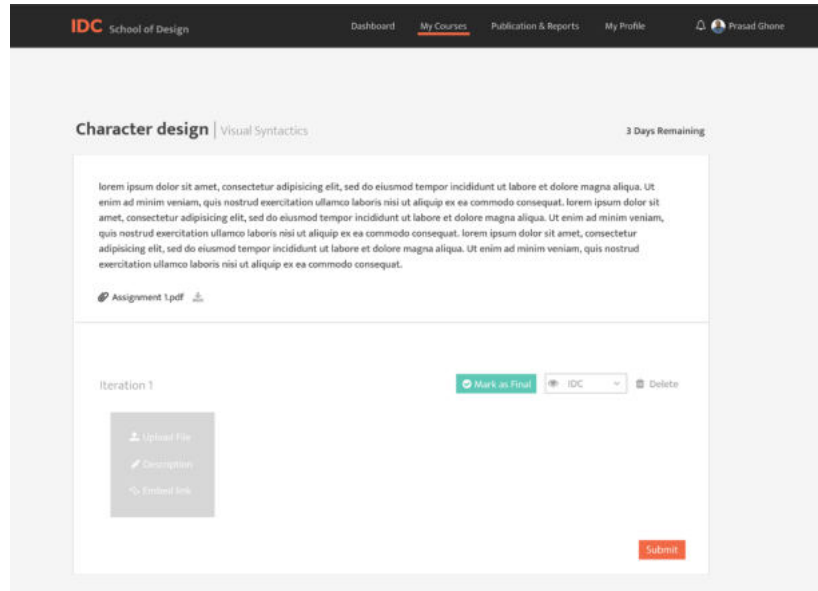
As user is new student there is nothing to show in WIP and completed work category on his dashboard but upcoming assignments from current module are visible with deadline in the form of how many days remaining for submission. He have to submit assignment 1st of visual syntactics before mentioned deadline.



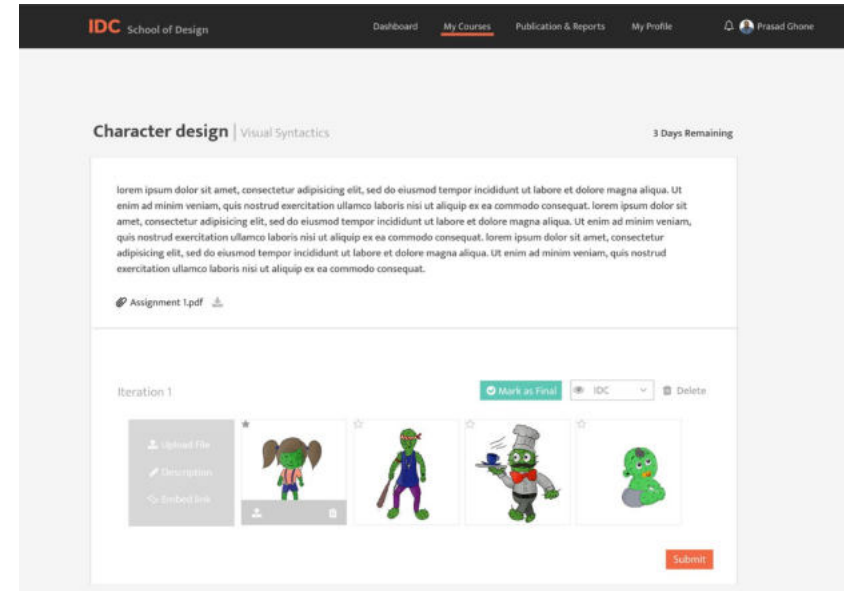
In my courses page students can see his ongoing courses and assignments submitted in each of it.



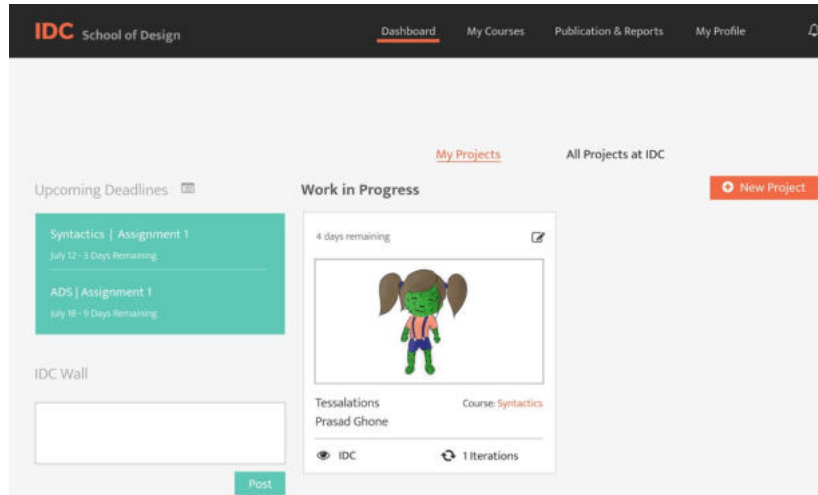
Inside every course profile there is description about course, faculty name and contact (mail), resources related that course and assignments with deadlines and attachments if any.



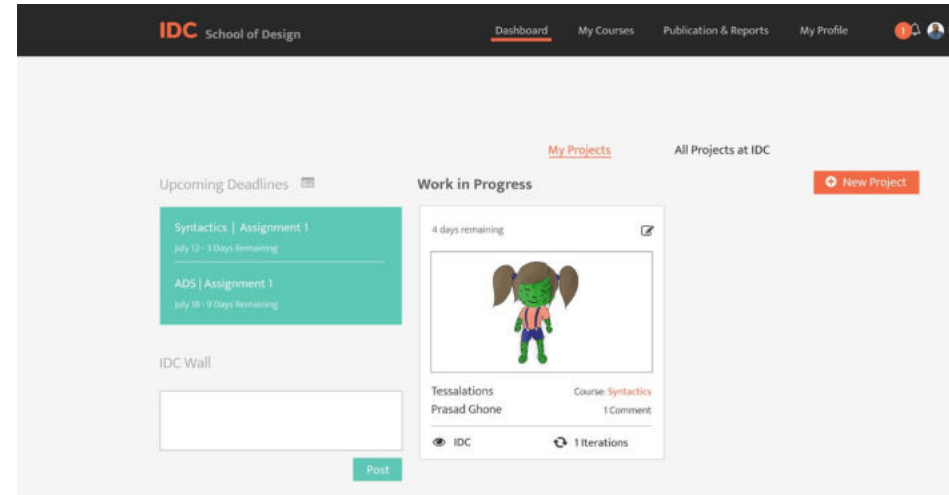
Notification on Dashboard or assignments card on course profile lead student to assignment page where student can upload assignments. Format of assignment can be image, PDF, embedded video link, PPT, embedded links from platforms like issue, Photoshop, illustrator or InDesign files. Students can upload a image for thumbnail or select a image as thumbnail from uploaded images.



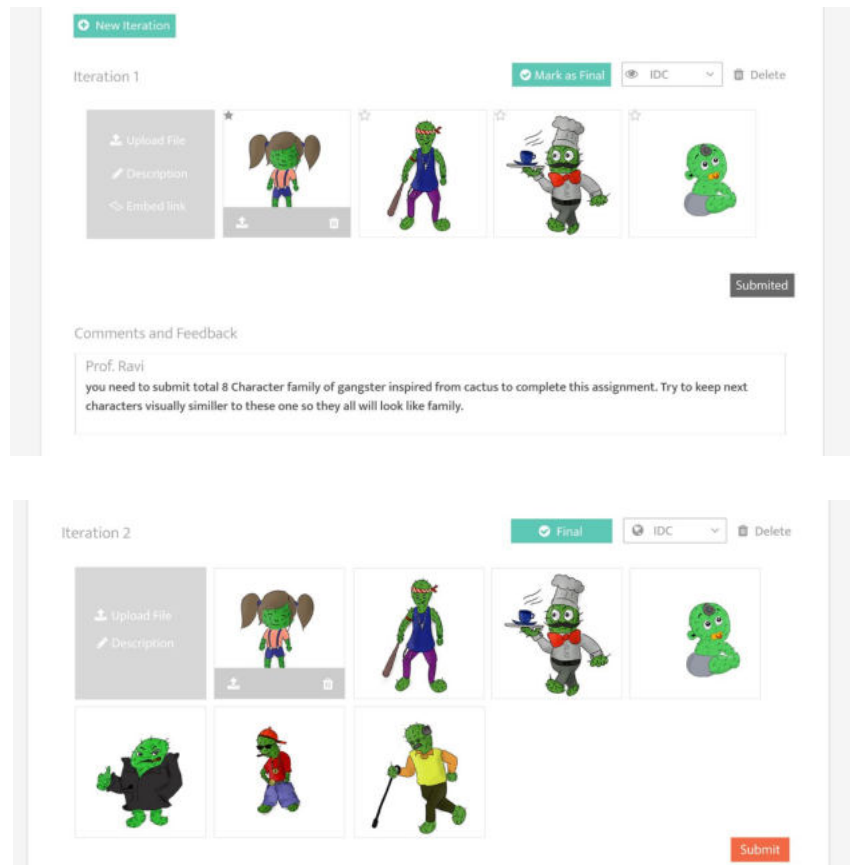
Before submitting assignment user can decide on Sharing setting from default option
 Private (user and concern faculty)
 Share in class (students of that particular course)
 Share in IDC (all IDC staff and students)
 Public (added to public profile of user)
 User can tag particular user asking for feedback. Marking assignment as iteration adds it WIP and if it is marked as complete it goes to completed assignments section.



Student marked assignment as iteration so it is saved in work in progress section of students and shared it within IDC on thumbnail it shows number of iterations, visibility level and course name.

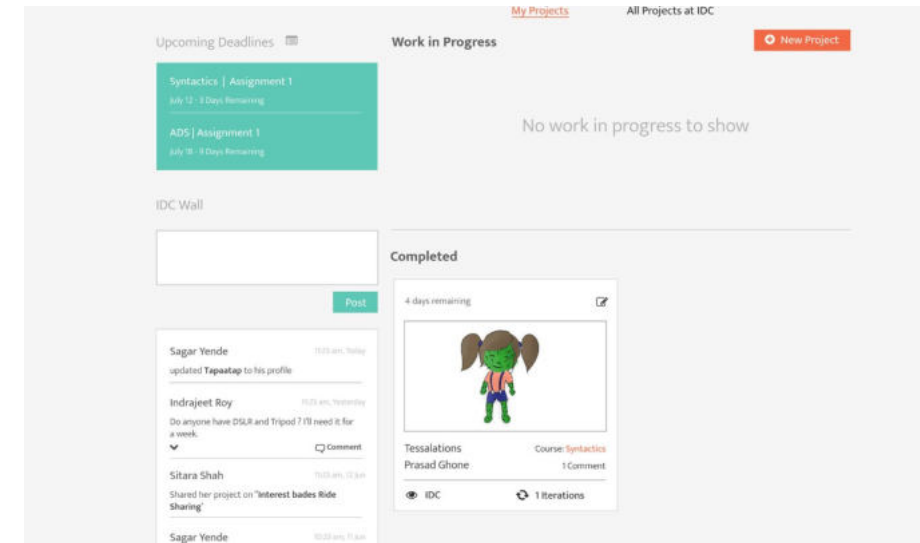


Meanwhile faculty reviewed assignment and commented on it so when students logged in net time he got notification about comment on his assignment

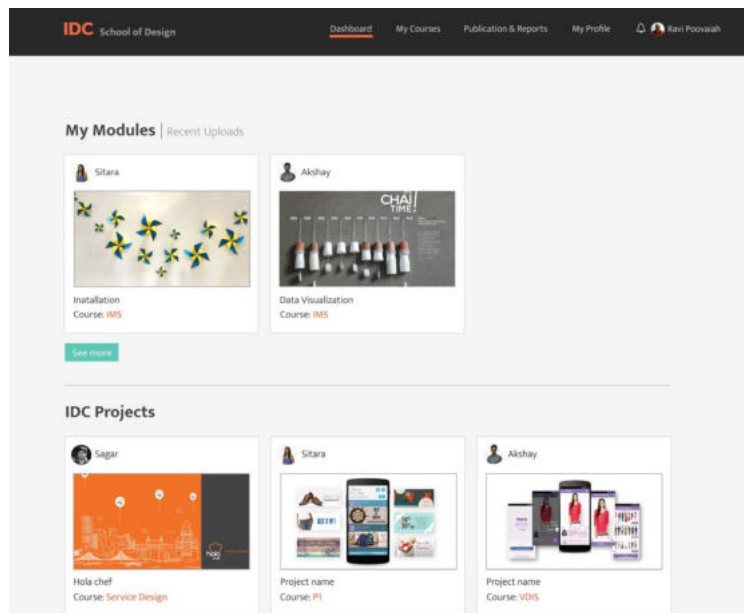


Student goes through comment and upload next iteration with complete assignment and mark it as finished assignment. Now it is saved in completed assignments section. Students can edit assignment even after it is submitted.

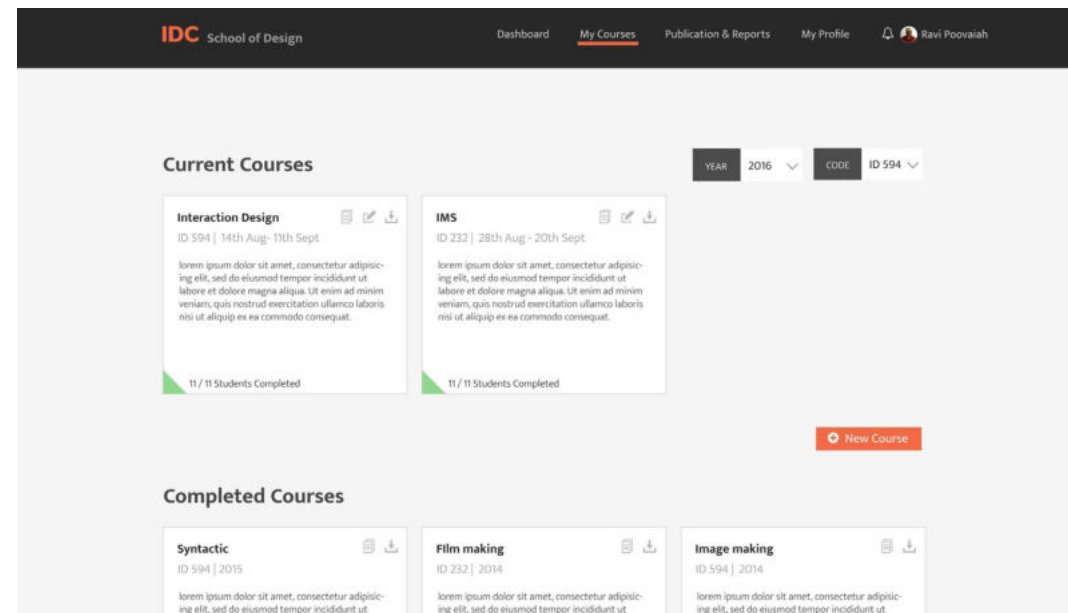
Link to click-able prototype: <https://marvelapp.com/6jb523g>



Scenario 2



Faculty logged in to their dashboard, It contain recent uploads from his/her own module and other ongoing projects shared by other students. To know updates in his/her courses faculty can go to the 'My courses' menu.



Courses are separated in current and completed courses. Filters for course ID and year are given. In this scenario faculty is creating New course , it can be done by simply adding whole new course by filling all details and adding resources to it or if the course is similar to previous course faculty can make a copy of previous course just by changing some essential details.

My Courses

TITLE

Syntactic

YEAR

2016

CODE

ID 594

ABOUT COURSE

Duration 30-08-16 to 30-08-16

This is an exercise in exploring Visual Transformations - how one can transform one visual to create another. There are three ways to do this - by Substitution, by Insertion and by Omission (also known as semantic operations). This means that we can substitute features from something else, insert a new feature or omit an existing feature in order to create a new visual image. And this seems to be the way a visual designer creates new visual images, signs and representations.

RESOURCES

Add Resource

1. What is a tessellation?

2. Syntactic, Semantic, Pragmatic

3. Interaction

ASSIGNMENT

Add Assignment

Tessellation

Deadline: 25 July, 2016

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Assignment 1.pdf

+ Add Attachment

Meta Pattern

Deadline: 25 July, 2016

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Assignment 1.pdf

+ Add Attachment

SAVE

IDC School of Design

DashboardMy CoursesPublication & ReportsMy Profile

Ravi Pooviah

Current Courses

YEAR2016CODEID 594

Interaction Design

ID 594 | 14th Aug - 19th Sept

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11 / 11 Students Completed

IMS

ID 232 | 28th Aug - 20th Sept

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11 / 11 Students Completed

Syntactic

ID 594 | 30th Aug - 22th Sept

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0 / 11 Students Completed

New Course

Here faculty makes a copy of ‘Syntactics’ course by changing dates for duration and deadlines of submission Assignment brief resources and other details can added or removed as per requirement. It is saved as new module and it gets added to ‘My Modules’ on his/her dashboard.

Each modules card contain short description of course, duration, status of assignments and options for copy, download & edit options. When the assignments gets uploaded to that modules it is viewed on recent uploads category of faculty profile.

IDC School of Design

Dashboard **My Courses** Publication & Reports My Profile Ravi Pooviah

Course Details **Submissions**

Syntactic

ID 594 | Year 2015 11 Students

Download all responses

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20 - 28 July, 2016

Tessellations

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Download All



Nagar

2 days ago 4 Iterations



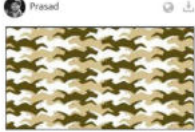
Sitara

15 July 3 Iterations



Akshay

18 July 3 Iterations



Prasad

2 days ago 4 Iterations



Jayeti

15 July 3 Iterations

Character design

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IDC School of Design

Dashboard **My Courses** Publication & Reports My Profile Ravi Pooviah

Course Details **Submissions**

Syntactic

ID 594 | Year 2015 11 Students

Download all responses

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20 - 28 July, 2016

RESOURCES

Add resources

1. What is a tessellation?
2. Syntactic, Symantic, Pragmatic
3. Interaction

Assignment Name

Deadline : 25 July, 2016

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Assignment 1.pdf + Add Attachment

10/11 Students Completed

Assignment Name

Deadline : 25 July, 2016

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Assignment 1.pdf + Add Attachment

8/11 students Completed

Course profile of faculty dashboard have two tabs for course details & submissions. Faculty can download all submissions for individual student's, assignment wise or all course submissions. Course details tab have all resources, list of assignments Mailing list of students and status and visibility of assignments.

Style-sheet

STYLE GUIDE IDC School of Design

Colors.



Typography.

My Modules Bold 25

Ek Mukta Regular 18

Ek Mukta light 18

EK MUKTA REGULAR 17

Ek Mukta bold 15

Ek Mukta Regular 15

Ek Mukta light 15

Ek Mukta Regular 13.5

Ek Mukta Light 15

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Ek Mukta Light 12

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Buttons

Mouse down

SAVE

Add Assignment

Mouse over

SAVE

Add Assignment

Mouse click

SAVE

Add Assignment

Mouse down



Tapatap - Typing Game



Sitara Shaha

2 Days ago

Mouse over



Tapatap - Typing Game



Sitara Shaha

2 Days ago

Mouse click



Tapatap - Typing Game



Sitara Shaha

2 Days ago

Prototype (Links)

Public Profile

<https://marvelapp.com/jieh9j>

Faculty Dashboard

<https://marvelapp.com/26a74ha>

Student Dashboard

<https://marvelapp.com/1ehfg0i>

Student Scenario

<https://marvelapp.com/6jb523g>

Faculty Scenario

<https://marvelapp.com/26a9284>

Main features

Academic management

Academic management is one of the objectives of this platform. Platform will assist students and faculty in communication and Documentation of each course/module.

Faculty have to create modules page that they are going to conduct in class, this page contains the list of assignments, resources to that particular course, list of students involved and a place to upload assignments. Faculty can download all students assignments for documentation and grading purposes, as can improve on their assignments and re-upload it at any point of time

Faculty can have a look at all assignments by students in their module on faculty dashboard. Platform facilitate

communication between students and faculty. Faculty can send notifications and group messages to students participated in particular module. As students can also upload intermediate stages of assignments which can be over-viewed by related faculty and they can give suggestions to improve on final output.

Students have to add modules created by faculty registered to their profile. Through this modules students get access to list of assignments and resources for that module. Assignments and deadlines are clearly mentioned in modules page so students can finish work and upload it to module and at same time they can add work to their own portfolio. All module related activities and notifications are shown on the modules page.

Create and maintain students portfolio

Students public profile/portfolio is created with his/her sign-up on the platform. Regular assignments and project work uploaded on platform can be added to student's public profile by just one click. Completed projects can be shared on public of students. It will build students portfolio simultaneously with coursework. This can a motivation for students to come up with fully finished work as output of assignments as it can directly go their portfolio.

Documentation

All projects at IDC on place with its resources related it would be great place to go through current and past work at IDC. Platform takes care of coursework documentation for faculty. It will create a digital and accessible repository of all IDC projects. It would be easy to find previous projects using keywords, student's name, year etc. Publications section of platform holds all papers and projects published by IDC students and faculty in any conference. This will ease access to papers and highlights IDCs ' contribution in design field. It can also motivate students to publish their work and participate in such conferences.

Internal sharing and feedback

Every project and assignment on platform have basically three levels of privacy or sharing.

By default students project and assignments are shared with related faculty/ guide. To seek feedback on work from other faculty members and students at IDC it can be shared within IDC. Project can be seen by IDC students and faculty only so even incomplete work can be uploaded and shared. To seek feedback from particular faculty, student can tag faculty in that project. Thus faculty will be notified about it and can go through work to give feedback/comment.

Through dashboard students and faculty can go through current projects in IDC and intermediate stages of it. If students and faculty is aware everyones projects they can

involved in it. This platform can also provide a trigger for interaction between students-student and student-faculty.

If interests and current projects of other student at IDC are known to each student, there will be chances to collaborate and work on various projects.

Public display of work at IDC Internal sharing and feedback

A platform hosts students public portfolios and publications of IDC, anyone can go through list of projects at IDC on home page of it. Students and faculty profiles are also their. Recruiters, IDC aspirants, and Design enthusiast can go through overall work done within IDC at one place.

Evaluation Plan

Evaluation 1

A working prototype will be given to users (IDC students) to upload their projects on the platform, comment, share project etc. A list of tasks to be performed will be given which includes Uploading assignments to the profile and decide its privacy level. It will be observed that if student use sharing setting and do people tag other users for feedback, adding iteration of same assignments and adding it to public profile.

Students will use platform for two days followed by short interview to know their experience and get feedback on solution. Questions for interview includes Platforms comparison with other portfolio website?, What this platform is lacking in terms of functionality ?, Will this solution save time and make students life easy?

Evaluation 2

A heuristic usability evaluation of the solution by a team of senior interaction design students at IDC, As interaction design students they are aware heuristics principles. Solution is related design domain and students are aware of common practices, domain and platform standards.

Evaluation

Results of Initial Heuristic Evaluation

Click-able prototype of first Visual design iteration was given to group of Interaction design students for heuristic evaluation and feedback, following were the problems identified in first evaluation. These problems were taken care of in the next iterations of visual design.

1. Conceptual model of Information architecture is not clear because public home page and Dashboards are visually similar with same main menu.
2. Indicators of visibility level for each project/ assignment can be helpful to understand its sharing level from thumbnail.
3. Repetition of my modules on dashboard and 'My Modules' section
4. Lack of flexibility in creating , editing and changing visibility of assignments within ongoing courses.

5. Ordering of students and faculty in people's page w.r.t. Streams for easy of access
6. Summary of submissions or status of assignments uploaded should be shown on faculty dashboard .

Evaluation

User Testing

8 Users Participated (M.Des students)
28 Total assignments uploaded

Selected sharing settings

19 Public
4 Shared with in IDC
4 Shared with class
1 Privet

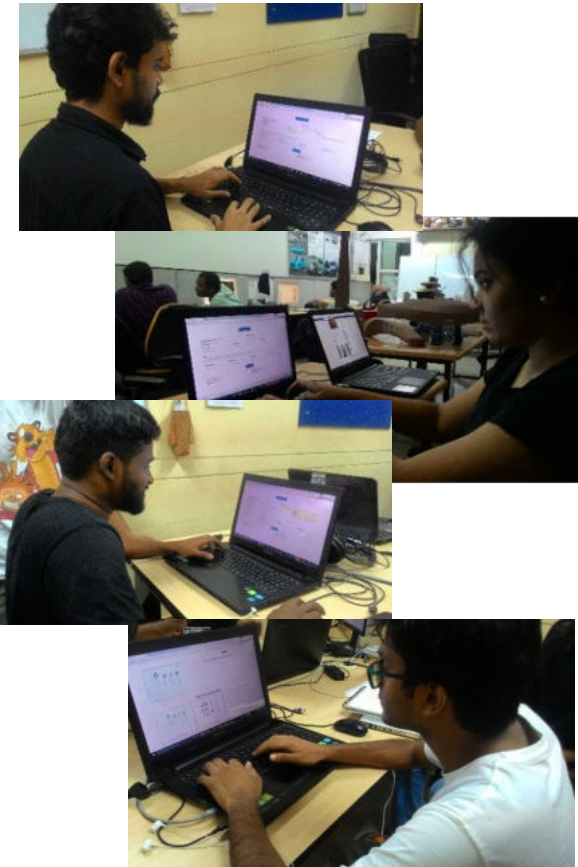
Feedback

17 Times People were Tagged for feedback
(4 Student + 13 faculty)

Observations and inferences

19 out of 28 projects/assignments were given a public tag and almost all projects were shared with some group except for one which was made private. The major reasons for sharing a project with a limited group were incomplete projects was lack of satisfaction with the work done and in some cases the student would not like a prospective employer to see the projects. Internally shared projects are intended to get feedback from class and faculty.

Feedback was mainly asked from professors and students from whom feedback was not received in a physical interaction. One student uploaded a assignment because a friend had done the same. There were traces of a network effect being created or peer pressure that will motivate students to upload.



References

1. Streakle: A Discovery, Discussion and Networking Platform for Design Students, Semester IV Project Report, Abhishek Chakraborty, Guided by Prof. Girish Dalvi Industrial Design Centre, Indian Institute of Technology Bombay, 2015
2. Does This JC Penney Tea Kettle Look Like Hitler?, NBC's Today. com, <http://www.today.com/news/does-j-c-penney-teakettle-look-hitler6C10100642>, Retrieved on May 28 2013.
3. Dow, S.P., Heddleston, K., & Klemmer, S.R., The Efficacy of Prototyping Under Time Constraints. In Creativity & Cognition, (2009), 165-174.
4. Feldman, E.B. Varieties of Visual Experience: Art as Image and Idea. Prentice-Hall, Englewood Cliffs, N.J., 1981.