



SASTRA

ENGINEERING · MANAGEMENT · LAW · SCIENCES · HUMANITIES · EDUCATION

DEEMED TO BE UNIVERSITY

(U/S 3 OF THE UGC ACT, 1956)

THINK MERIT | THINK TRANSPARENCY | THINK SASTRA

REPORT ON

“SOLVING PROBLEMS USING HUMAN CENTRIC DESIGN PROCESS WITH TECHNIQUES OF DESIGN THINKING”

Submitted For the partial fulfilment of requirement for
Human Centric Design [MEC 347M]

Done By:

ABHINAV P (126018035)

SHRIRAM S B (126010123)

SAMYUKTHA S (126013050)

RESHMA (126158043)

Course Coordinator:

Dr. Hariharan Sankara Subramanian
SASTRA DEEMED TO BE UNIVERSITY

In the perspective of solving real life, day to day challenges around us for the purpose of the course, we have embarked on a journey of noticing and brainstorming about various problems that we, as students have routinely faced. And in that journey, we have identified many problems that we could solve but in the constraint of the time and resources, we have decided to choose the 'one' problem that could make a meaningful contribution to the peers around us in this college. Which in conclusion lead us to the problem where “Students face difficulties in finding details of the ongoing projects in the university website.”

CUSTOMER JOURNEY MAP

Persona 1

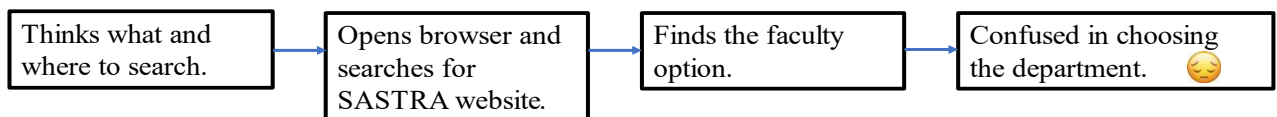
Name: Tejasree

Age: 19

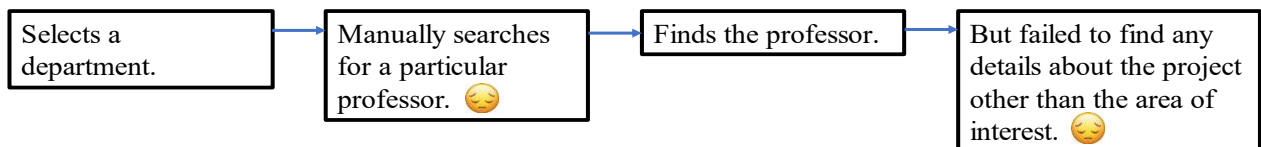
Gender: Female

Geographic location: Thanjavur

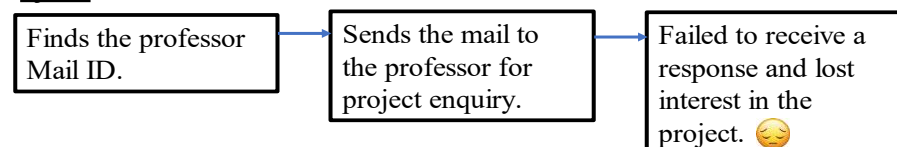
Before:



During:



After:



Persona 2

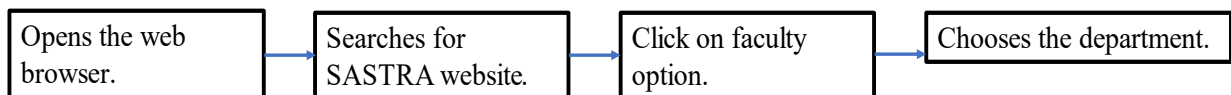
Name: Nagammai

Age: 19

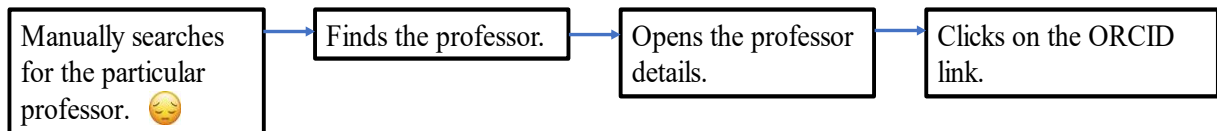
Gender: Female

Geographic location: Thanjavur

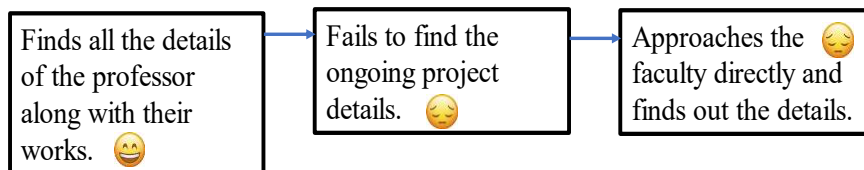
Before:



During:



After:



Persona 3

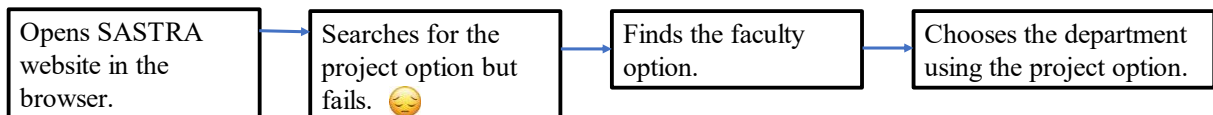
Name: Srinivas

Age: 20

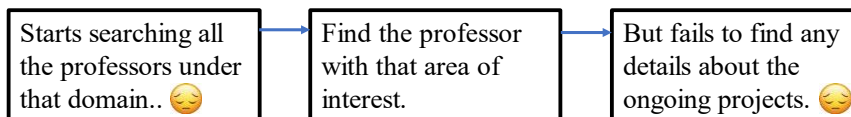
Gender: Male

Geographic location: Thanjavur

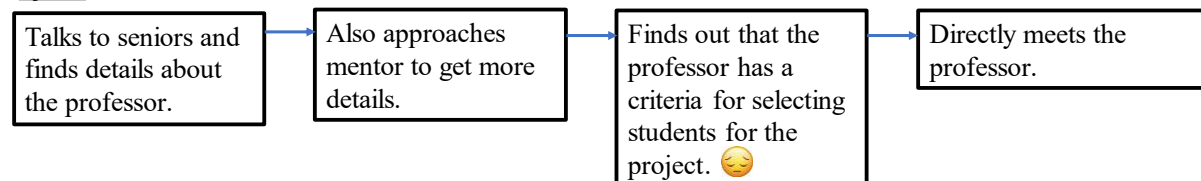
Before:



During:



After:



“Why” analysis for identifying root cause

How Might We (HMW) Question:

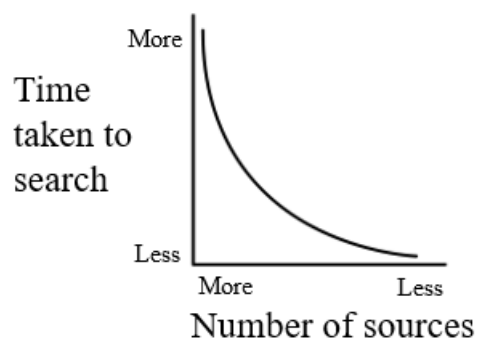
How might we help the students to find all the details of the ongoing projects in less time?

“WHY’S”

Question 1: Why does it take more time to get the ongoing project details?

Assumption: If the information is available in one place, then it might take less time.

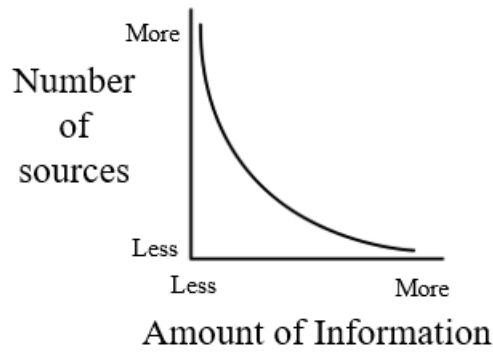
Answer: As the students need to get information from multiple sources it takes more time.



Question 2: Why do the students reach out to multiple sources?

Assumption: If the SASTRA website contains all the information there is no need of other sources.

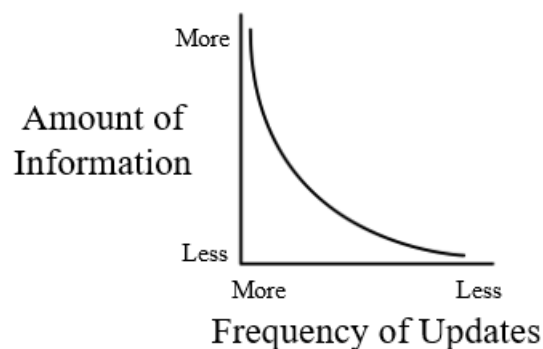
Answer: As there is insufficient information on the SASTRA website, they need to look for other sources.



Question 3: Why the SASTRA website cannot provide all the details of ongoing projects?

Assumption: If there was an option to easily update the details then the information could be available.

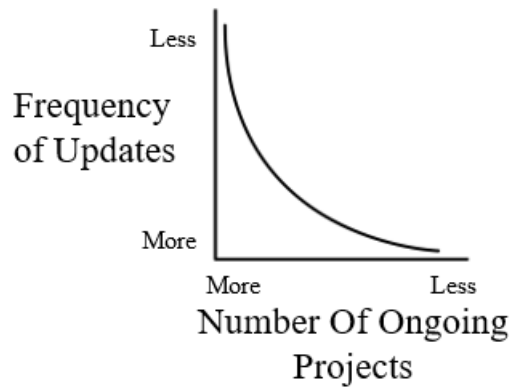
Answer: Because it is hard to constantly update the details of the ongoing projects.



Question 4: Why is it not possible to update the details?

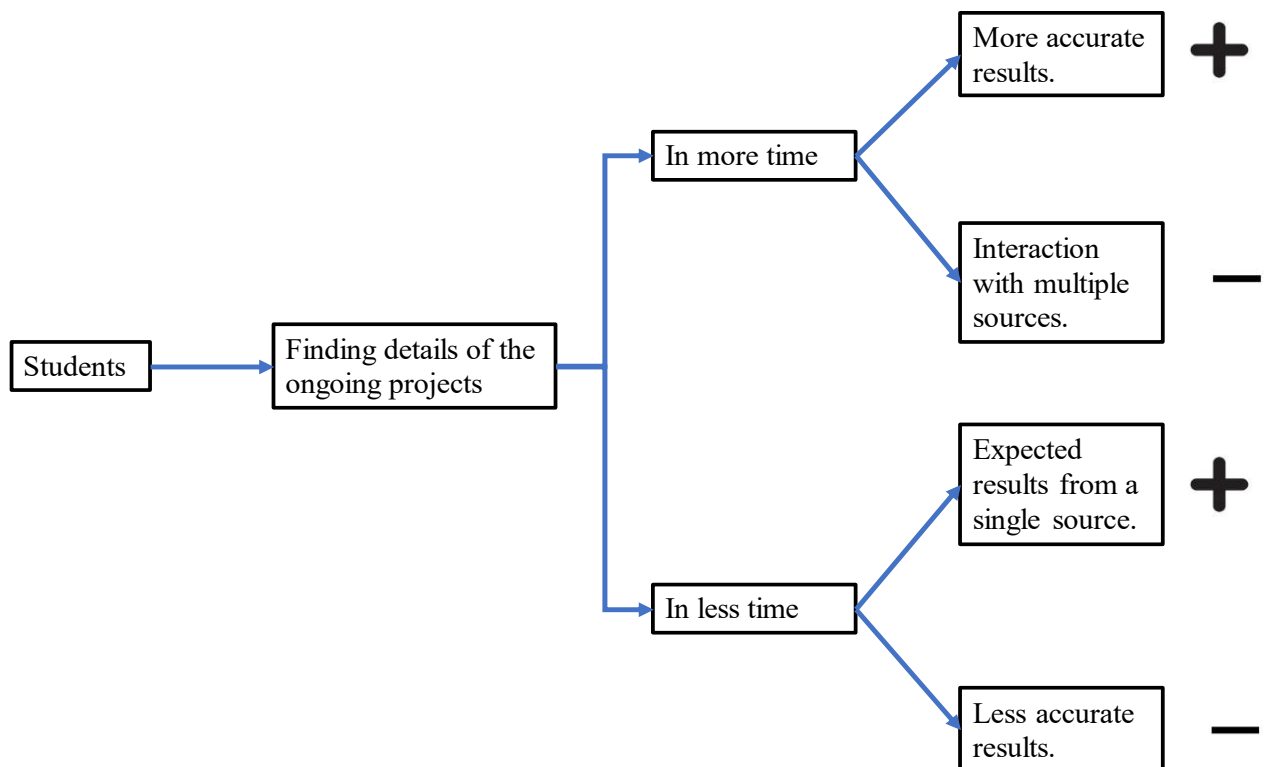
Assumption: If the details could be updated by the professor themselves it could be easy and all the details would be available.

Answer: As there are multiple projects going on it is not possible for the website handler to update each one of them.



Conflict Of Interest and Revised Problem

ENV MODEL



Problem Statement

Students are unable to find the accurate details about the ongoing projects in less time from a single source.

Solution for the identified problem

The mode of solution is a website.

WEBSITE OVERVIEW:

Our website serves as a centralized hub where students can discover ongoing projects and professors can showcase their research initiatives. The platform offers a range of features, including project search functionality based on domain, department, and professor with separate login pages for students and professors. Also provides dedicated dashboards for managing project details.

OBJECTIVES:

Our primary objectives in developing this website are:

1. Streamlining Project Discovery: To provide students with easy access to a diverse range of project opportunities relevant to their interests and academic pursuits.
2. Facilitating Collaboration: To create a platform where professors can effectively showcase their projects and recruit talented individuals to contribute to their research initiatives.
3. Enhancing the University Experience: To foster a vibrant culture of collaboration, innovation, and knowledge-sharing within the university community.

Prototyping and User reviews

Version 1:

[Close Overlay](#) [About-Team](#) [Project](#)



Register

as student

as teacher

Login

as student

as teacher

Department Selection Form

Department:

Computer Science



Submit

Student Registration Form

Name:

Registration Number:

Branch:

Year:

CGPA:

Certifications:

Projects Previously Worked On:

Domain of Interest:

About Yourself (100 words max):

Phone Number:

teacher Registration Form

Name:

Branch:

Certifications:

Projects Previously Worked On:

Domain of Interest:

About Yourself (100 words max):

Phone Number:

Email:

LinkedIn Profile Link:

Submit

Project Details Form

Department:

Computer Science ▼

Project Name:

Project Details:

Status:

Name of Faculty:

Email ID:

Contact:

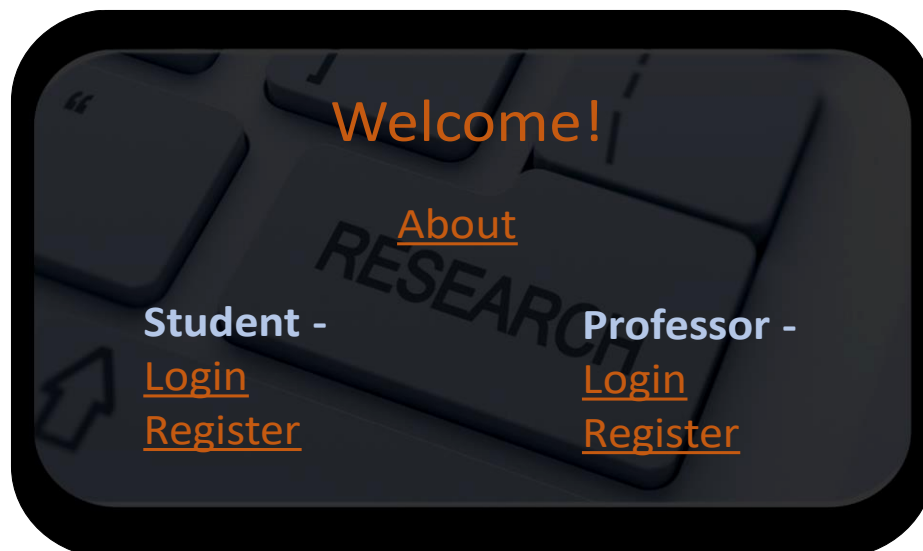
Cabin:

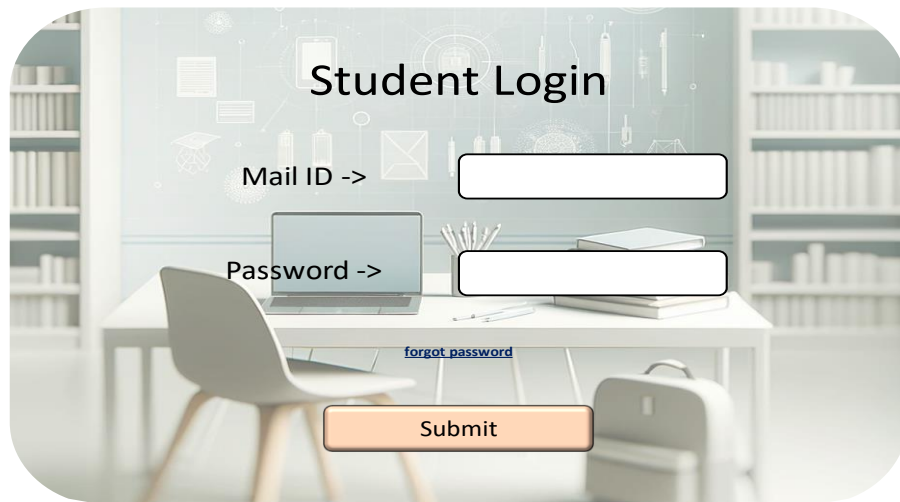
Submit

User reviews:

- The Overlay in the 'About' section (when open) is blocking the to select other inputs.
- The Register and login pages, though functional, are very bland.
- The use-case and the detailing of the website is pretty good but the design (UI) is unfriendly. Furthermore, the overall design aesthetic of the website is quite bland.
- There is no colour scheme and gives a bad visual experience. In technical aspects, the inability to effectively send and receive the entries from and to the Database is very bothersome. Also, it is hard to navigate from one page to another within the interface.
- The purpose of the website is quite appealing and I feel is beneficial to both teachers and students but the UI and Database integration have to be improved.

Version 2:



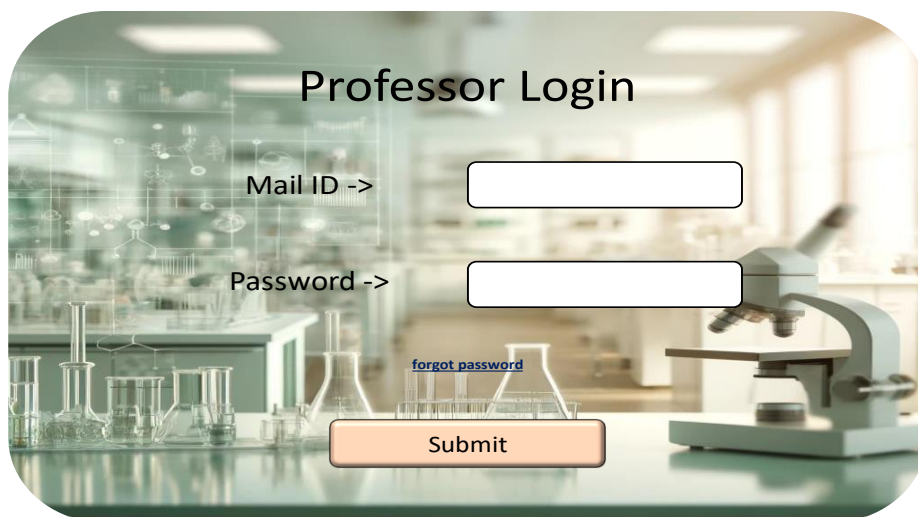


Student Login

Mail ID ->

Password ->

[forgot password](#)

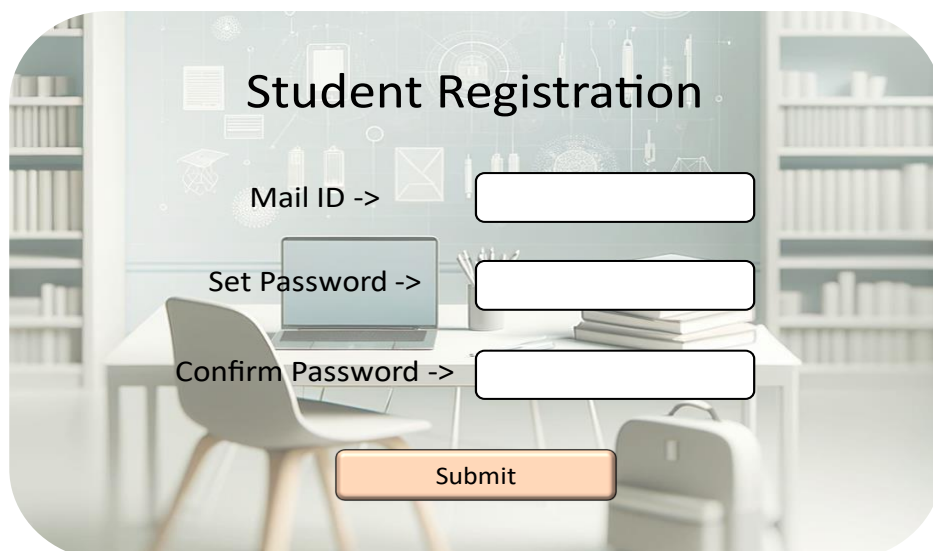


Professor Login

Mail ID ->

Password ->

[forgot password](#)



Student Registration

Mail ID ->

Set Password ->

Confirm Password ->

Professor Registration


Name ->

Mail ID ->

Set Password ->

Confirm Password ->


Hello User! 🎓

 Notifications

Enter Personal Details -

Show Research Projects -

User's Profile



No file chosen

Enter Details

Name*

Reg No*

Branch*

Year*

CGPA

Certifications

Previous Projects

Domain of Interest*

About Yourself*
(About 100 words)

Phone Number*

Mail ID*

LinkedIn Profile

Search ongoing Projects

Select Department


Department	Project-Name	Project_Details	Status	Name of Faculty	Email_id	Contact number	Location/Cabin details

Hello Prof1!

List your Research Project -

Search for student apprentice -

User's Profile

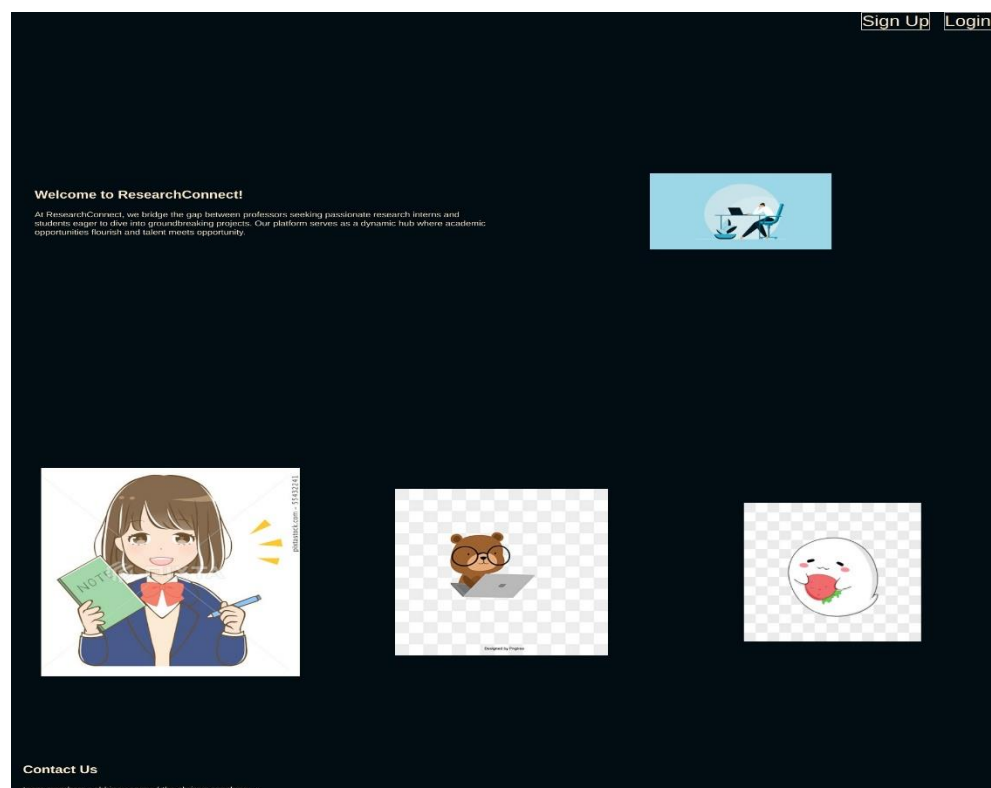


No file chosen

User Reviews:

- The UI is appealing. Better than version 1.
- The interface seems to be slow.
- There is no option to directly send requests to students or professors, and there is no notification or alert panel in version 2.
- Experience is not smooth. There is a lag in each step.
- Encountering overlaps of texts and search boxes when the website is opened in mobile phones.

Version 3:



User Login

Email	
Password	
Login	

User Registration

Email	
Password	
Confirm Password	
Select User Type: <input type="checkbox"/> Student <input type="checkbox"/> Teacher	
Register	

[Settings](#) [Search](#) [Notifications](#) [Log Out](#)

Load the content into this area.

SettingsSearchNotificationsLog Out

Department Selection Form

Department:

Computer Science

Submit

Listing Data

SettingsSearchNotificationsLog Out

Notifications

Department	Project Name	Project Details	Status	Name of Faculty	Email ID	Contact	Cabin
Chemical	sss	kol	on	jahs	s@gmail.com	ssss	ssss
Chemical	ijjsis	kol	on	jahs	s@gmail.com	ssss	ssss
Chemical	kokokokok	jsinsn	on	hisiid	thid	djmd	ddd
Computer Science	poo	sisjks	on	hey	123@gmail.com	knsks	ssss

Applied Settings listing Log Out								
Applied Projects								
Department	Project Name	Project Details	Status	Name of Faculty	Email ID	Contact	Cabin	Actions
Chemical	sss	kol	on	jahs	s@gmail.com	ssss	ssss	Approve
Chemical	jjsjs	kol	on	jahs	s@gmail.com	ssss	ssss	Approve
Chemical	kokokokok	jslnsn	on	hishid	lhid	djmd	ddd	Approve
Computer Science	poo	sisjks	on	hey	123@gmail.com	knsks	ssss	Approve
Refresh								

Applied Settings listing Log Out								
Upload Project Listing								
<div> <div>Select Department</div> <div>Project Name</div> <div>Project Details</div> <div>Status</div> <div>Faculty Name</div> <div>Email</div> <div>Contact</div> <div>Cabin</div> <div>Upload</div> </div>								

User reviews:

- Interactive and simple UI.
- Easy to surf and user friendly.
- Improved options like notification and customer support. Able to retrieve whatever desired.
- The website functions seamlessly, providing smooth user experience.

Business Model Canvas

KEY PARTNERS 1. University Departments 2. Professors 3. Students	KEY ACTIVITIES 1. Platform development 2. User management 3. Project management	VALUE PROPOSITIONS 1. Convenience: Easy access to ongoing projects. 2. Networking: Connect students with professors. 3. Opportunities: Helps students to gain experience. 4. Efficiency: Streamlines the process of finding and joining projects.	CUSTOMER RELATIONSHIPS 1. Online support 2. Feedback 3. Community building	CUSTOMER SEGMENTS 1. University Students 2. University professors
	KEY RESOURCES 1. Tech/ Infra: Databases, servers 2. Human resources: Customer support and marketing.		CHANNELS 1. Website 2. Social media 3. Word of mouth	
COST STRUCTURE 1. Developmental cost 2. Marketing 3. Service cost			REVENUE STREAMS 1. Platform fees for promoting sponsored research	

Acknowledgement

We would like to express our sincere gratitude to **Dr. Hariharan Sankara Subramanian** for his invaluable guidance, insightful suggestion, and unwavering support throughout this course as well as project. His expertise and encouragement have truly helped in elevating the quality of our work and we are deeply appreciative of his contributions.
