

EXPERTIRE - Connecting Institute and Expert

PROTOTYPE REPORT

Prepared for



CSCI5193 – Technology Innovation

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Prepared by

Team Titanium

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Project Overview

Challenge:

“Ensure inclusive and equitable **quality education** and promote lifelong learning opportunities for all” [1]

Solution:

The project aims to connect institutes with experts who are willing to share knowledge. Institutes post their requirements for talks, workshops, lectures, etc. in response willing experts can then show their interest and later institutes can contact them.

Prototype:

We use a simple and user-friendly UI to completed different tasks in our system. The system is built with modern and reliable technology.

The tech stack used are:

Frontend: ReactJS with Bootstrap

Backend: NodeJS with ExpressJS

Database: MongoDB

We also observe a minimal CI/CD using Heroku deployment flow.

Git Repository: <https://git.cs.dal.ca/sancheti/csci5193-group-project>

Demo Link: <https://expertire.herokuapp.com/>

REFERENCES / Code Sources Used:

- React Bootstrap Starter Template by Chris Achinga
 - GitHub URL - Available: <https://github.com/ChrisAchinga/react-bootstrap-starter>
 - Blog URL - <https://reactjsexample.com/a-react-bootstrap-starter-template-with-react-router/>
- Bootstrap Components - <https://getbootstrap.com/docs/5.0/examples/carousel/>

Self-Evaluation

Site Map

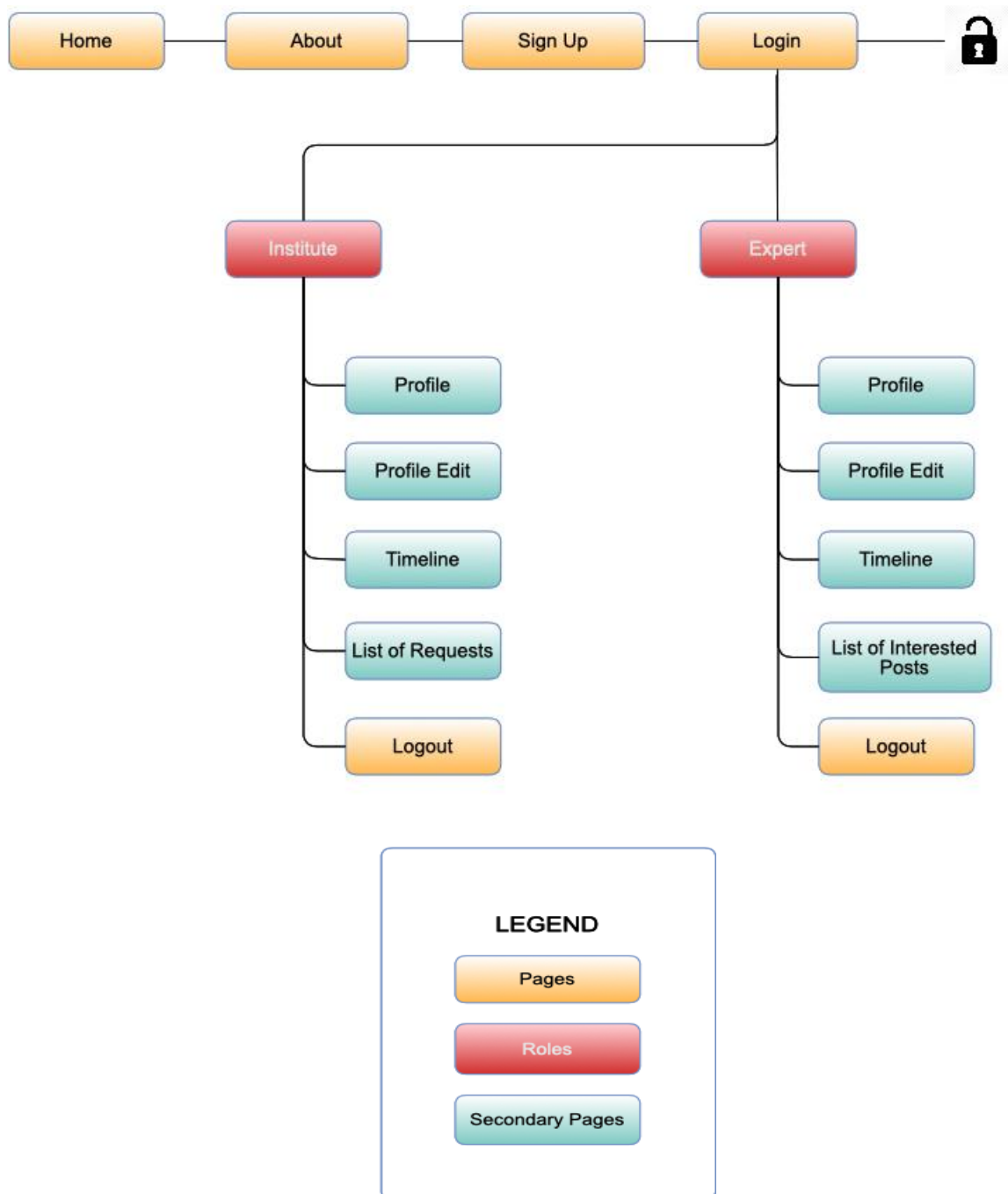


Figure 1: Website Sitemap [2]

Wireframes

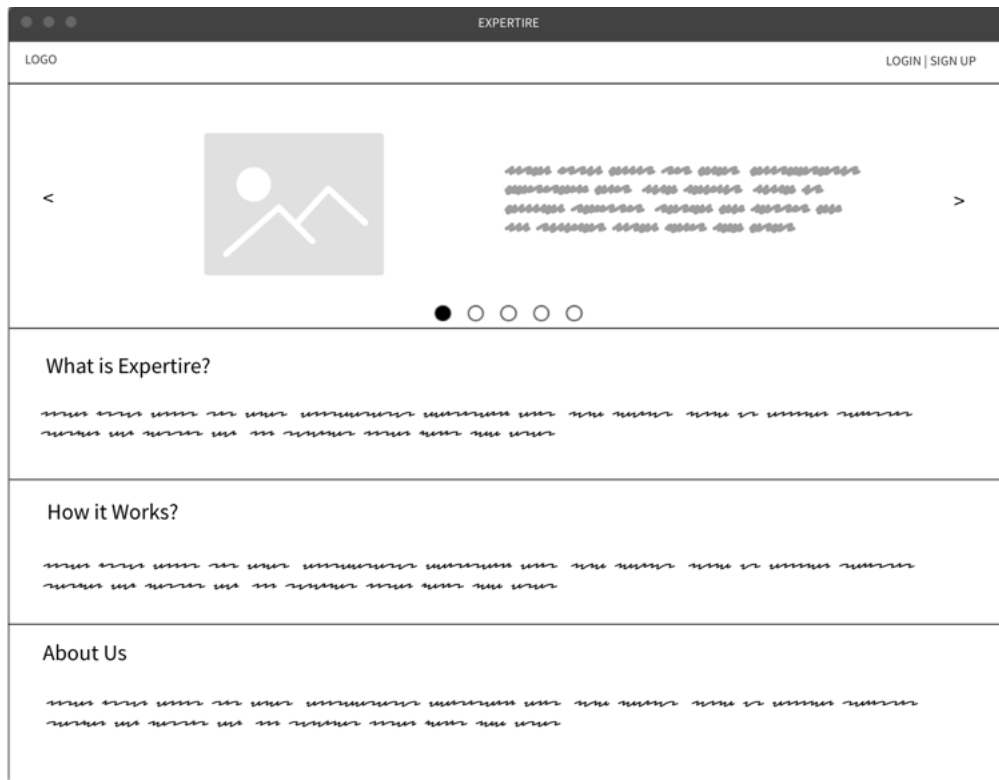


Figure 2: Wireframe – Homepage [3]

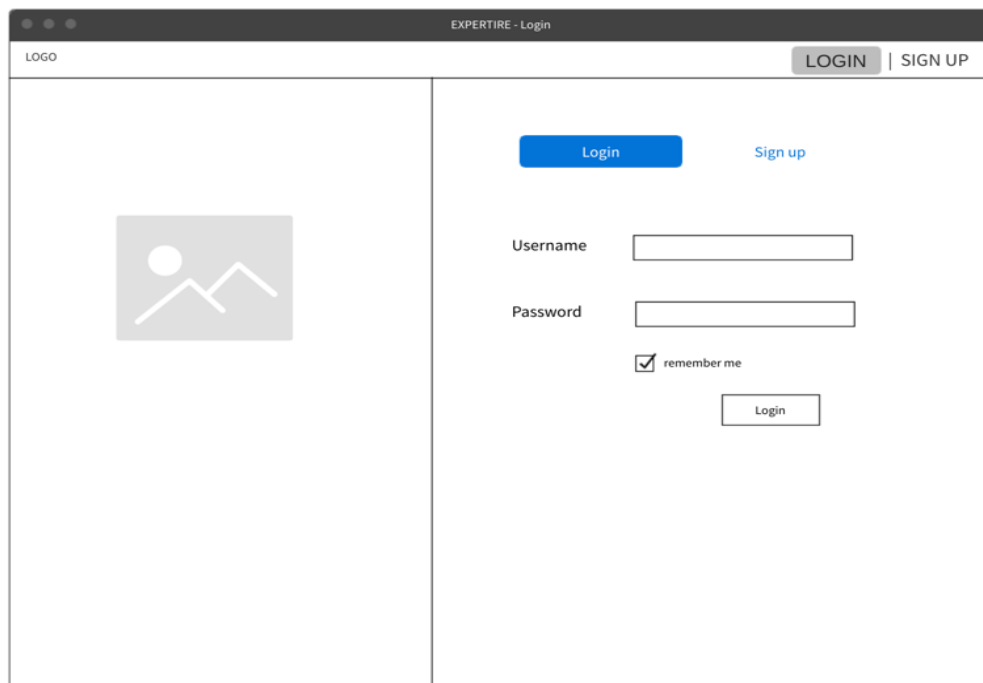


Figure 3: Wireframe - Login/Signup [3]

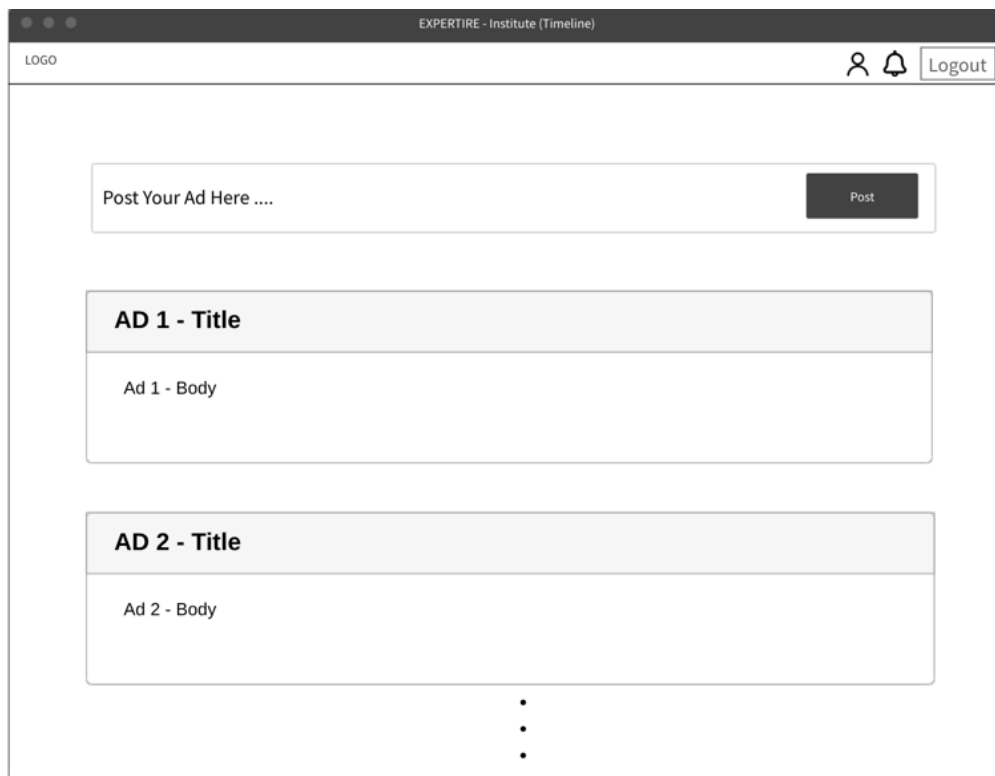


Figure 4: Wireframe - Institute Timeline [3]

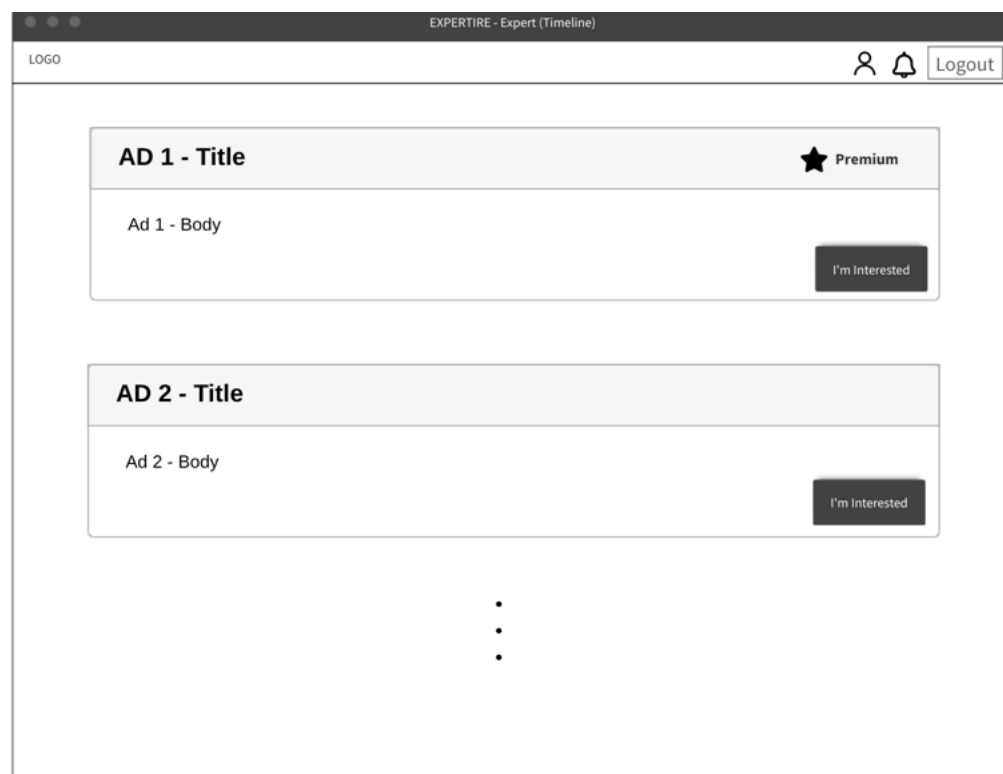


Figure 5: Wireframe - Expert Timeline [3]

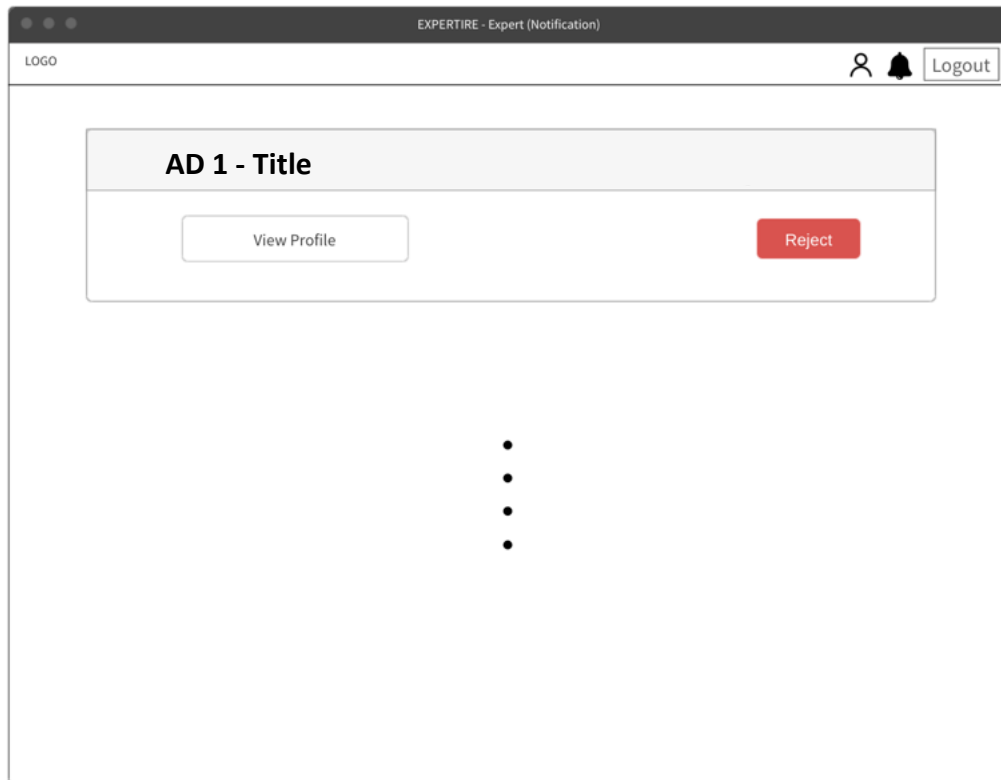


Figure 6: Wireframe - Expert Interested Posts [3]

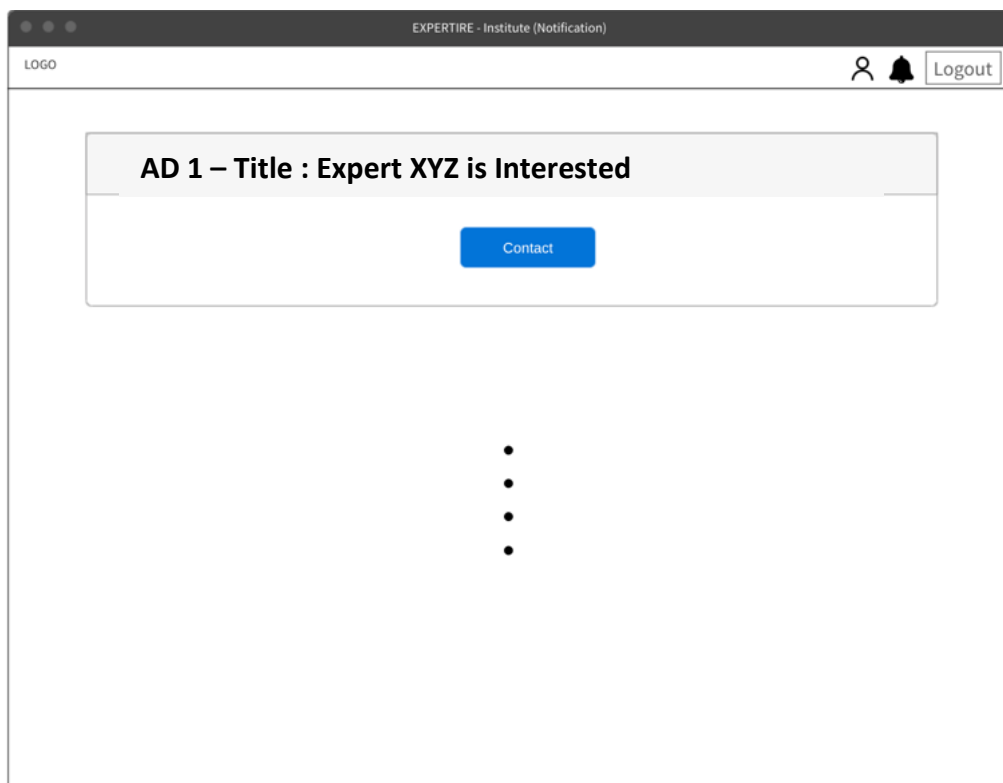


Figure 7: Wireframe - Institute Requests and Responses [3]

Webpages

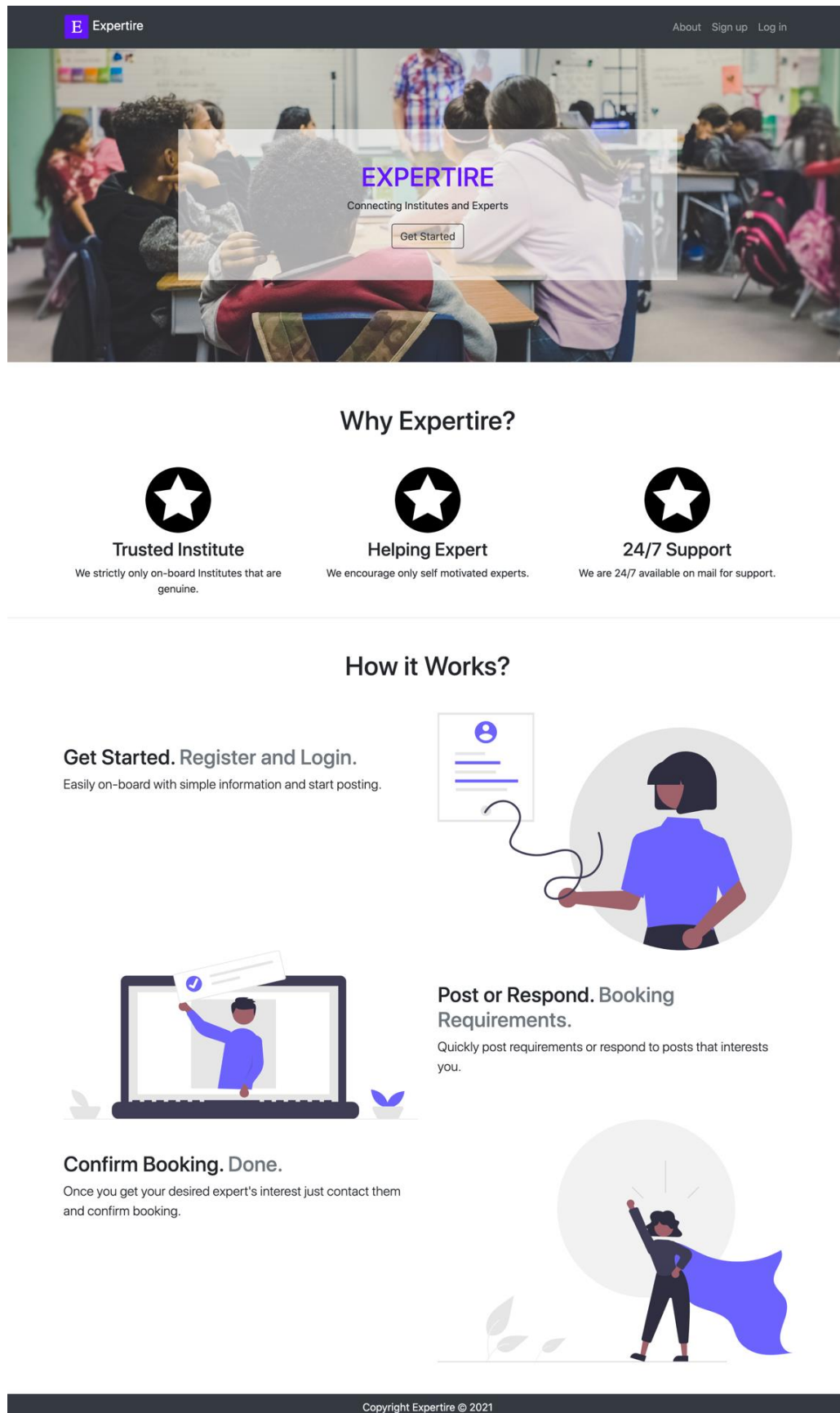



Figure 8: Landing Page

 Expertire

[About](#) [Sign up](#) [Log in](#)

Signup

Welcome To Expertire

Email address

We'll never share your email with anyone else.

Password

Confirm Password

User Type


Institute

☐ I Agree to the Terms & Conditions

Sign up

Copyright Expertire © 2021

Figure 9: Signup Page

 Expertire

[About](#) [Sign up](#) [Log in](#)

Login

Welcome To Expertire

Email address

We'll never share your email with anyone else.


Password

Log in

Copyright Expertire © 2021

Figure 10: Login Page

Institute

 Expertire

ProfileRequestsTimelineLog out

Kingstong University

Address

1333, South Park Street
Halifax, Nova Scotia, Canada


About us

Started in 1880

Edit Profile

Copyright Expertire © 2021

Figure 11: Institute Profile Page

 Expertire

ProfileRequestsTimelineLog out

Edit Institute Profile

Institute Name

Kingstong University

Street Address

1333, South Park Street

City

Province

Country

Halifax

Nova Scotia

Canada

About

Started in 1880

Update Profile

Copyright Expertire © 2021

Figure 12: Institute Edit Profile Page

E

Expertire

ProfileRequestsTimelineLog out

Timeline

Create a new posting

Title

Enter the title for the posting

Details

write your message here ...

Post

1

Machine Learning Expert Needed!!!!

We have a requirement for an Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.

Copyright Expertire © 2021

Figure 13: Institute Timeline

E

Expertire

ProfileRequestsTimelineLog out

Interested Experts

Post Title - Machine Learning Expert Needed!!!!

Post Message - We have a requirement for an Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.

Expert Interested - Yash

View ExpertContact

Post Title - Machine Learning Expert Needed!!!!

Post Message - We have a requirement for an Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.

Expert Interested - Prashant

View ExpertContact

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Figure 14: Institute Requests and Responses

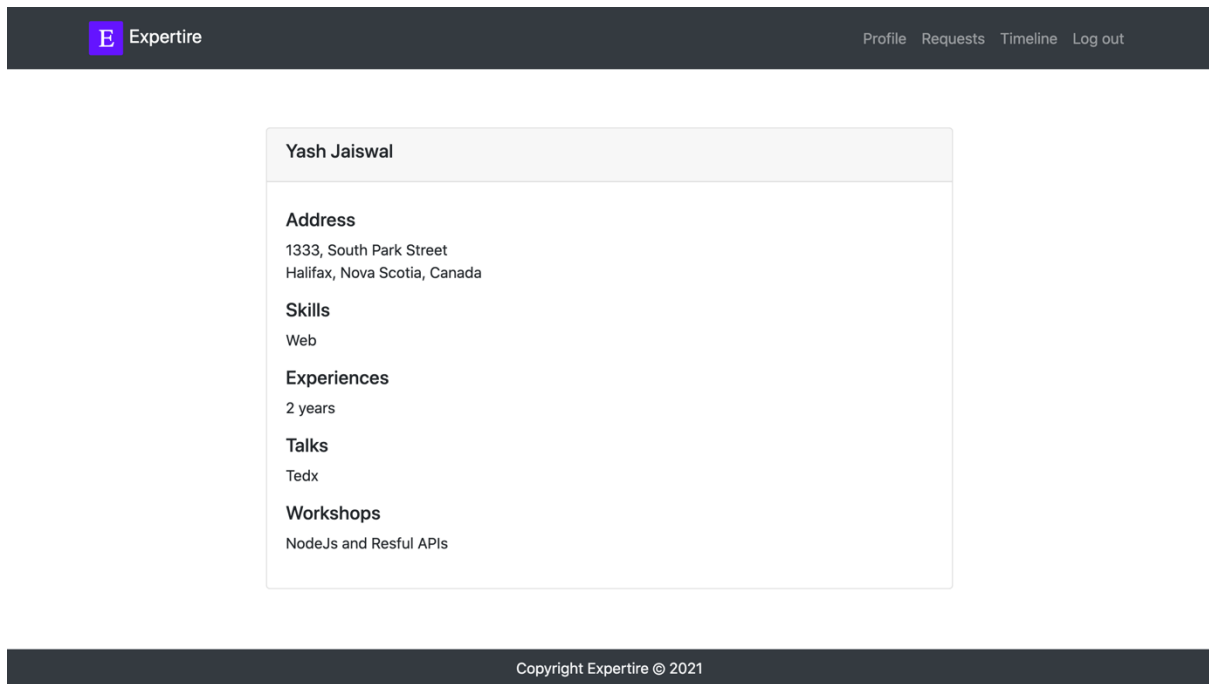


Figure 15: Expert Profile View Page

Expert

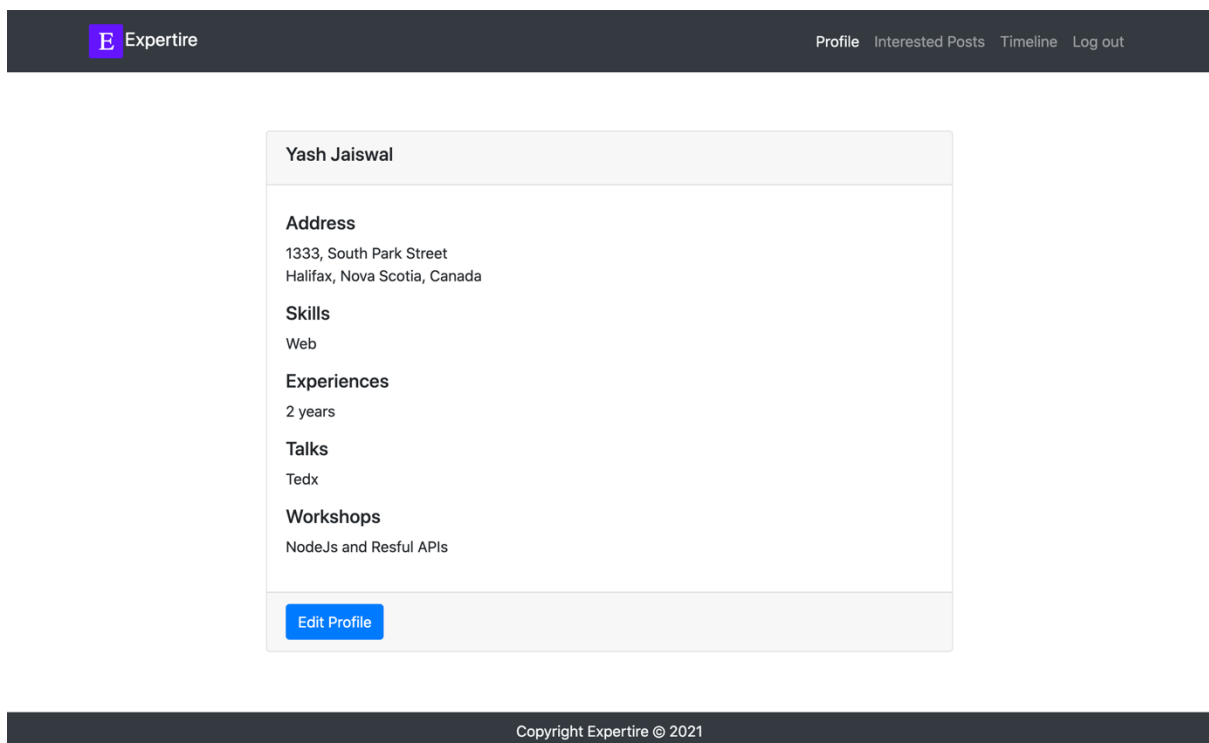


Figure 16: Expert Profile Page

Edit Expert Profile

First Name	Last Name	
<input type="text" value="Yash"/>	<input type="text" value="Jaiswal"/>	
Street Address		
<input type="text" value="1333, South Park Street"/>		
City	Province	Country
<input type="text" value="Halifax"/>	<input type="text" value="Nova Scotia"/>	<input type="text" value="Canada"/>
Skills		
<input type="text" value="Web"/>		
Experiences		
<input type="text" value="2 years"/>		
Talks		
<input type="text" value="Tedx"/>		
Workshops		
<input type="text" value="NodeJs and Resful APIs"/>		
<input type="button" value="Update Profile"/>		

Figure 17: Expert Edit Profile Page

Timeline

Kingstong University
Machine Learning Expert Needed!!!!
We have a requirement for an Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.
<input type="button" value="View Institute"/> <input type="button" value="I'm Interested"/>

Kingstong University
ReactNative Expert Needed!!!!
We have a requirement for a React Native Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.
<input type="button" value="View Institute"/> <input type="button" value="I'm Interested"/>

Figure 18: Expert Timeline

Interested Posts

Post by Kingstong University

Machine Learning Expert Needed!!!!
We have a requirement for an Expert at Our University for a handson tranining workshop session. Interested Expertes Please Revert Back.

[View Institute](#)[Cancel](#)

Figure 19: Expert Interested Posts Page

Kingstong University

Address
1333, South Park Street
Halifax, Nova Scotia, Canada

About us
Started in 1880

Figure 20: Institute Profile View Page

Task Flows

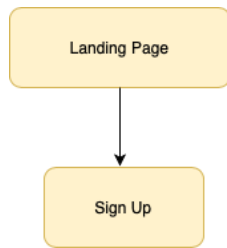


Figure 21 - Sign up [2]

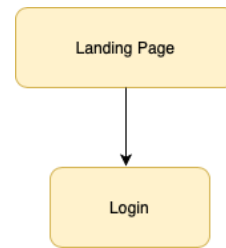


Figure 22 – Login [2]

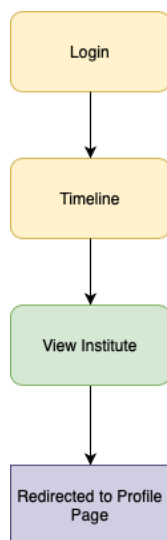


Figure 23 - View institute [2]



Figure 24 - Adding to requests list [2]

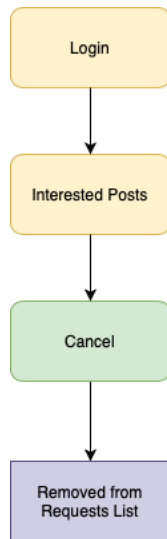


Figure 25 - Removing from requests list [2]

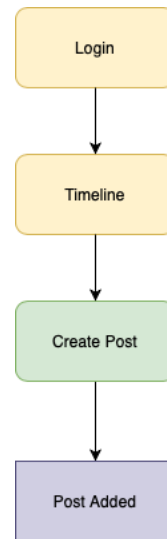


Figure 26 - Create post [2]

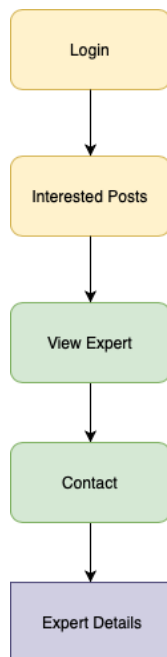


Figure 27 - View expert [2]

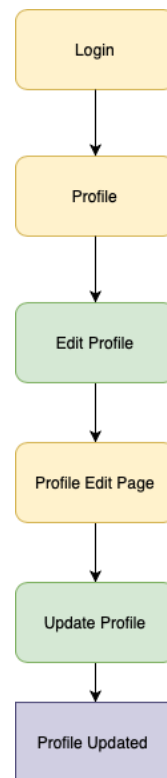


Figure 28 – Expert/Institute update profile [2]

API list

VERB	URL	DESCRIPTION
GET	/users/list	List the required users
GET	/users/userprofile	Show a user profile
POST	/users/login	Login and generate access token
GET	/users/logout	Logout and remove access token
POST	/users/create	Create new user
PATCH	/users/update	Update a user profile
POST	/request/	Create a new request by experts
GET	/request/getByInstitute	List experts interested in posts
GET	/request/getByPost	List experts interested in particular post
GET	/request/getByExpert	List interested posts of a particular expert
GET	/request/notifyInstitute	Show new requests to institute
GET	/request/delete	Delete a request by expert
POST	/posts/createpost	Create a new post by institute
GET	/posts/fetch	Fetch posts of a particular institute
PATCH	/posts/update	Update a particular post

Collaboration on Asana

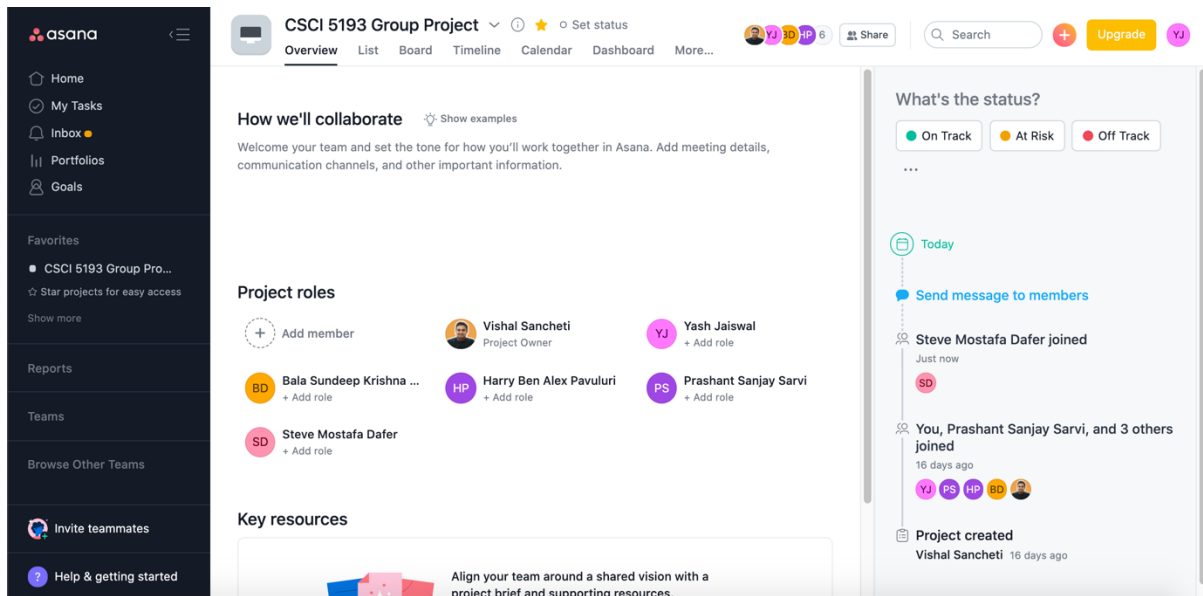


Figure 29: Asana Overview

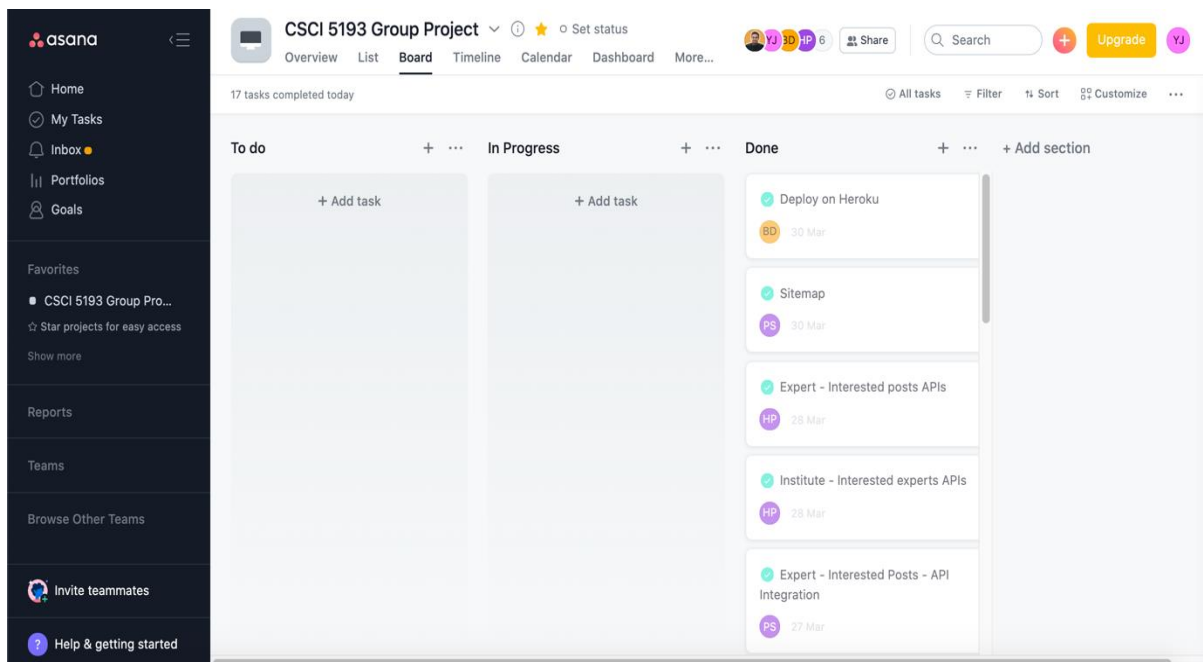


Figure 30: Asana Kanban Board

CSCI 5193 Group Project

Overview List Board Timeline Calendar Dashboard More...

+ Add task

All tasks Filter Sort: Due Date Customize

Task name	Assignee	Due date	Priority
To do			
In Progress			
Done			
Create GitLab Repository	Vishal San...	16 Mar	
Create Asana and Invite Members	Yash Jaiswal	16 Mar	
Ideate and List Task	Bala Sund...	17 Mar	
Wireframe: Institute - Request Page	Prashant S...	18 Mar	
Wireframe: Institute User Flow	Vishal San...	18 Mar	
Wireframe(s) of Sign up / Sign in	Yash Jaiswal	18 Mar	
Wireframe: Expert - Interested Posts Page	Prashant S...	20 Mar	
Wireframe: Expert User Flow	Vishal San...	20 Mar	
Wireframe: Institute/ Expert Timeline	Yash Jaiswal	20 Mar	
Setup Project Boilerplate	Bala Sund...	20 Mar	

Figure 31: Task List 1

CSCI 5193 Group Project

Overview List Board Timeline Calendar Dashboard More...

+ Add task

All tasks Filter Sort: Due Date Customize

Task name	Assignee	Due date	Priority
Institute - Requests Page (UI)	Prashant S...	22 Mar	
Expert - Interested Posts Page (UI)	Prashant S...	22 Mar	
Setup API Engine with Authorization and Authentication	Bala Sund...	22 Mar	
List all required APIs	Harry Ben ...	22 Mar	
Profile Page - Edit (UI)	Vishal San...	24 Mar	
Signup and Signin APIs	Bala Sund...	24 Mar	
Signup/ Login Page (UI)	Yash Jaiswal	24 Mar	
Interests - Requests - API Integration	Prashant S...	25 Mar	
Institute - Post request API	Harry Ben ...	25 Mar	
Profile Page - View (UI)	Vishal San...	25 Mar	
Expert - Respond to post API	Harry Ben ...	26 Mar	
Profile management APIs	Bala Sund...	26 Mar	
Login Page - API Integration With FrontEnd	Yash Jaiswal	26 Mar	
Signup Page - API Integration with FrontEnd	Yash Jaiswal	26 Mar	
Expert - Interested Posts - API Integration	Prashant S...	27 Mar	

Figure 32: Task List 2

- Home
- My Tasks
- Inbox
- Portfolios
- Goals
- Favorites
 - CSCI 5193 Group Pro...
 - Star projects for easy access
 - Show more
- Reports
- Teams
- Browse Other Teams
- Invite teammates
- Help & getting started

CSCI 5193 Group Project

Overview

List

Board

Timeline

Calendar

Dashboard

More...

YJ

YJ

HP

6

Share

Search

Upgrade

+ Add task

All tasks

Filter

Sort: Due Date

Customize

Task name	Assignee	Due date	Priority	
✓ Login Page - API Integration With FrontEnd	YJ Yash Jaiswal	26 Mar		
✓ Signup Page - API Integration with FrontEnd	YJ Yash Jaiswal	26 Mar		
✓ Expert - Interested Posts - API Integration	PS Prashant S...	27 Mar		
✓ Expert - Interested posts APIs	HP Harry Ben ...	28 Mar		
✓ Institute - Interested experts APIs	HP Harry Ben ...	28 Mar		
✓ Timeline - Institute/ Expert (UI)	YJ Yash Jaiswal	28 Mar		
✓ Profile View/Edit API Integration	Vishal San...	28 Mar		
✓ Deploy on Heroku	BD Bala Sund...	30 Mar		
✓ Sitemap	PS Prashant S...	30 Mar		
✓ Timeline Institute API Integration	YJ Yash Jaiswal	30 Mar		
✓ Timeline Expert API Integration	YJ Yash Jaiswal	30 Mar		
✓ Landing Page and About Page (UI)	Vishal San...	30 Mar		

Add task...

+ Add section

Figure 33: Task List 3

REFERENCES

- [1] United Nations. “Goal 4: Quality Education”, *un.org*. [Online]. Available: <https://sdgs.un.org/goals/goal4>. [Accessed: Apr. 1, 2021]
- [2] MockFlow - Online Wireframe Tools, Prototyping Tools, Online Whiteboard, Design tool, UI Mockups, UX Suite, Remote design collaboration, UX Planning. (2020), MockFlow. Accessed: Apr. 1, 2021. [Online]. Available: <https://mockflow.com/app/>
- [3] Flowchart Maker & Online Diagram Software. (2021). Retrieved 1st April 2021, from <https://app.diagrams.net/>