EXPERTIRE - Connecting Institute and Expert

PROTOTYPE REPORT

Prepared for

DALHOUSIE UNIVERSITY
Faculty of Computer Science

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/
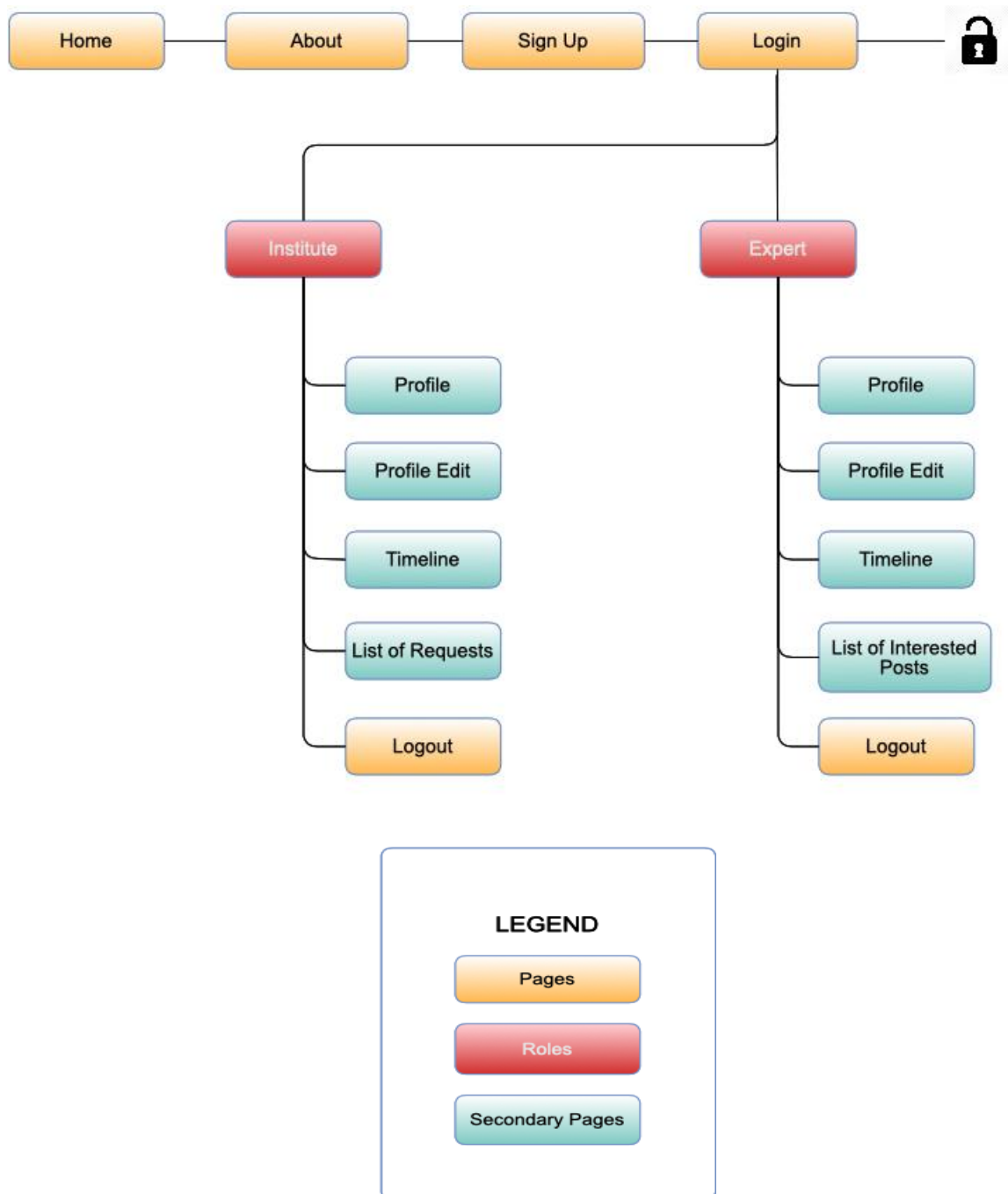
Self-Evaluation

Site Map

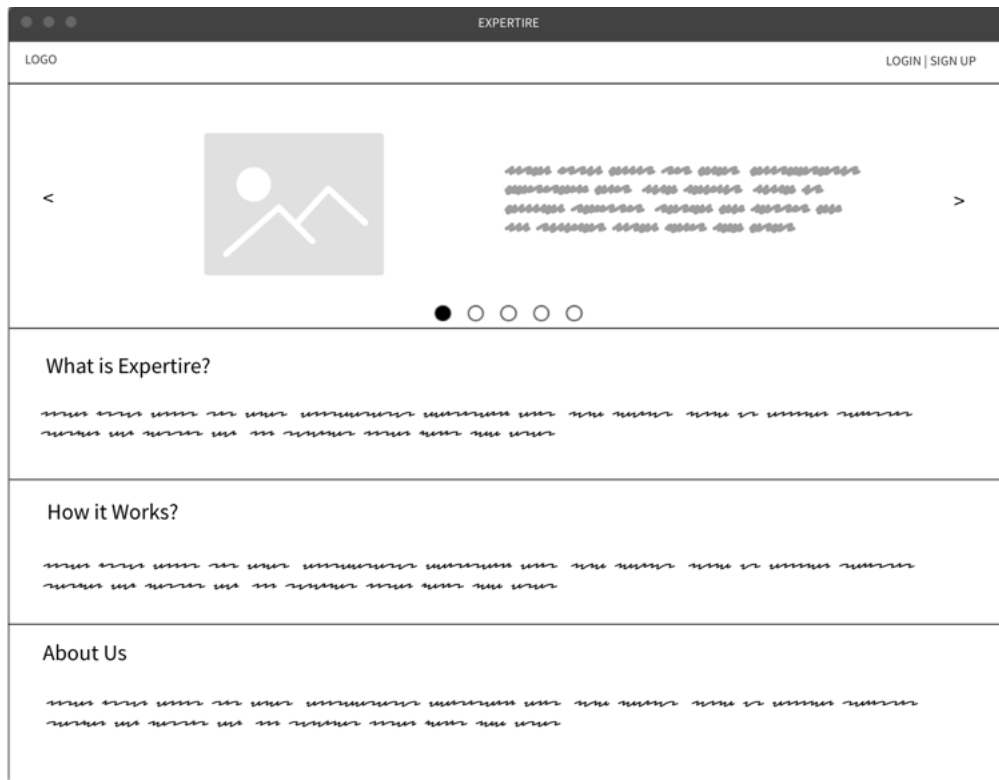*Figure 1: Website Sitemap [2]*

Wireframes
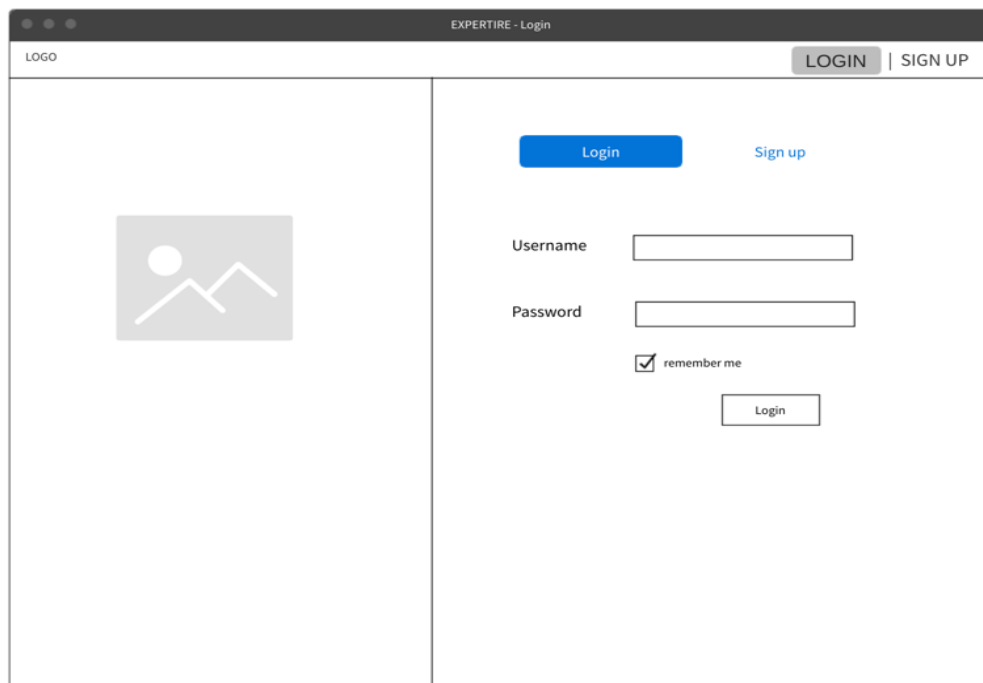

Figure 2: Wireframe – Homepage [3]
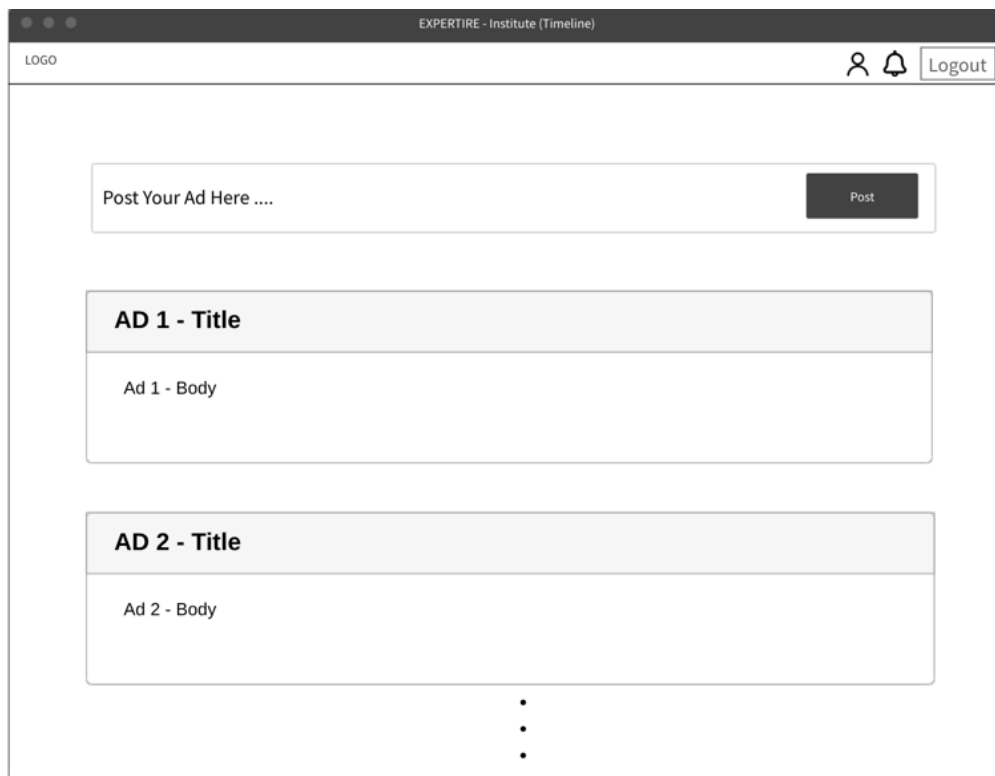

Figure 3: Wireframe - Login/Signup [3]

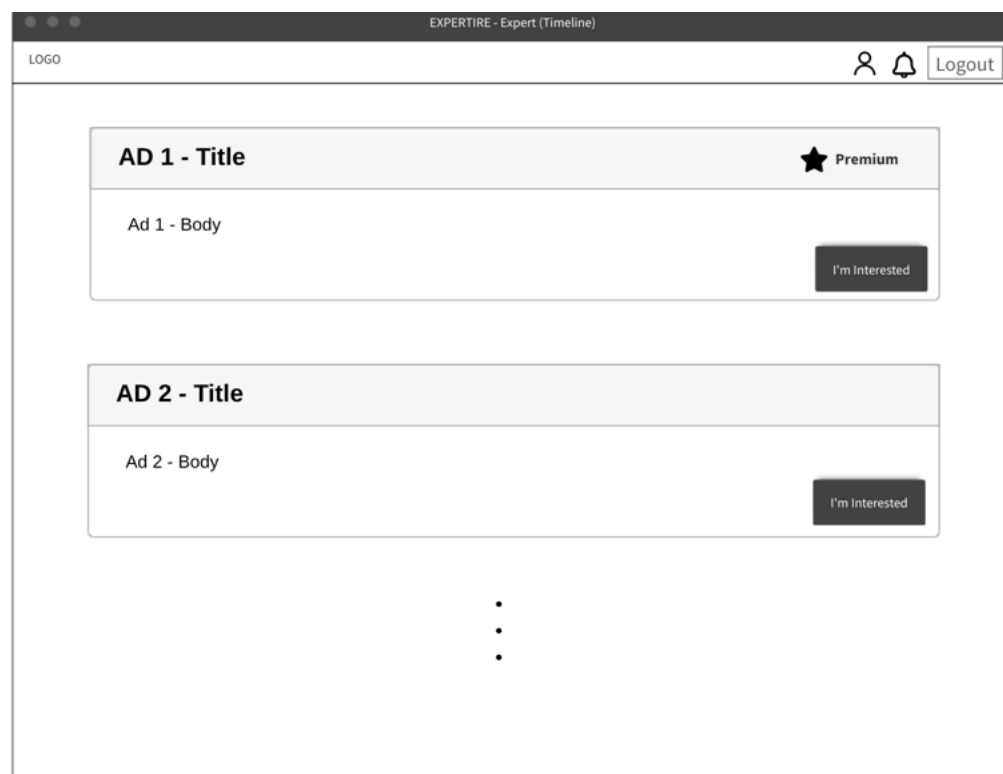*Figure 4: Wireframe - Institute Timeline [3]*

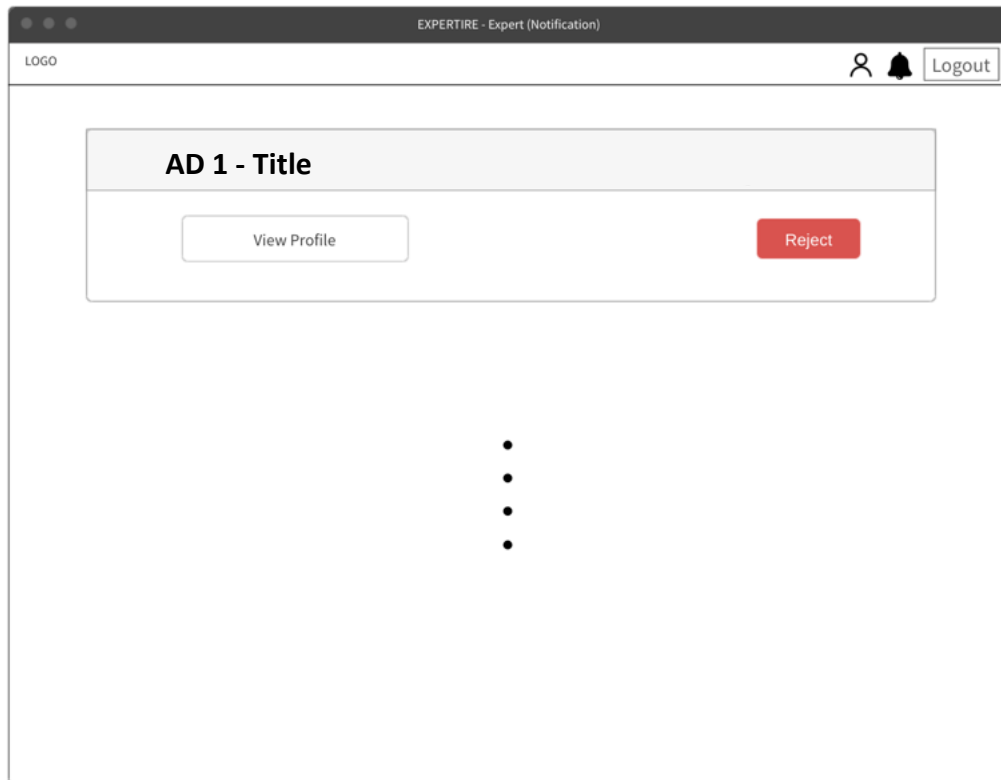*Figure 5: Wireframe - Expert Timeline [3]*
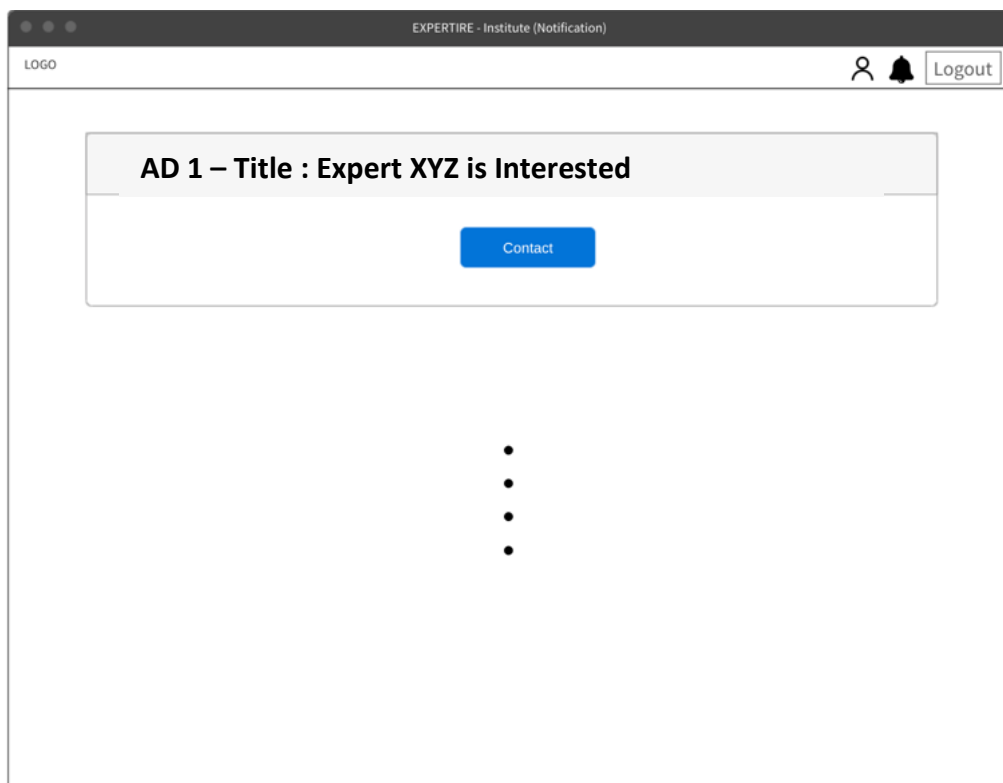
Figure 6: Wireframe - Expert Interested Posts [3]

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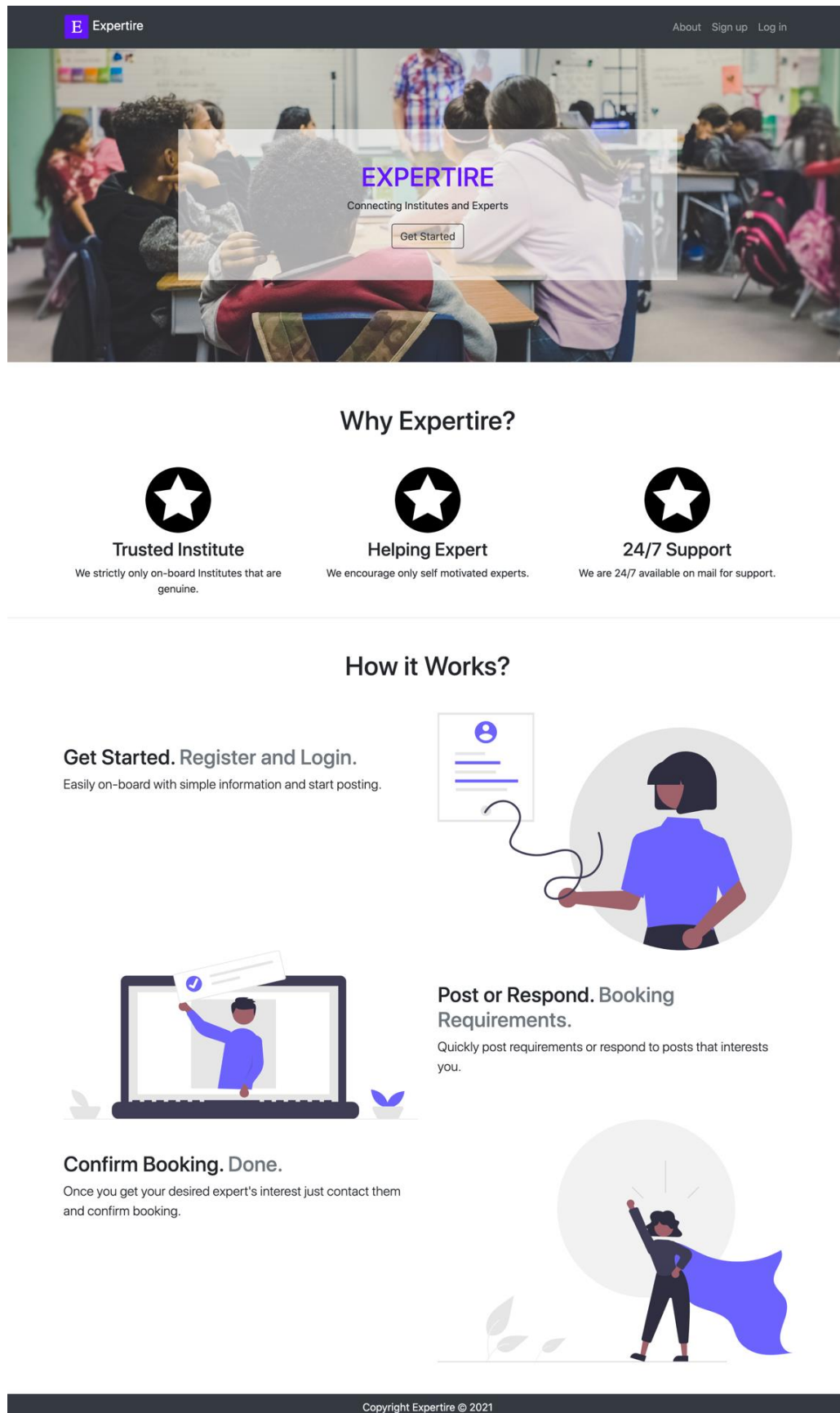
Webpages

Signup

Welcome To Expertire

Email address

Enter email

We'll never share your email with anyone else.

Password

Password

Confirm Password

Confirm Password

User Type

Institute

☐ I Agree to the Terms & Conditions

Sign up

Figure 9: Signup Page

Login

Welcome To Expertire

Email address

Enter email

We'll never share your email with anyone else.

Password

Password

Log in

Figure 10: Login Page

Institute

Kingstong University

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

About us
Started in 1880

Edit Profile

Figure 11: Institute Profile Page

Edit Institute Profile

Institute Name

Kingstong University

Street Address

1333, South Park Street

City

Halifax

Province

Nova Scotia

Country

Canada

About

Started in 1880

Update Profile

Figure 12: Institute Edit Profile Page

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 traning workshop session. Interested Expertes Please Revert Back.

Figure 13: Institute Timeline

Interested Experts

Post Title - Machine Learning Expert Needed!!!!

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

Expert Interested - Yash

View Expert   Contact

Post Title - Machine Learning Expert Needed!!!!

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

Expert Interested - Prashant

View Expert   Contact

Figure 14: Institute Requests and Responses

Yash Jaiswal
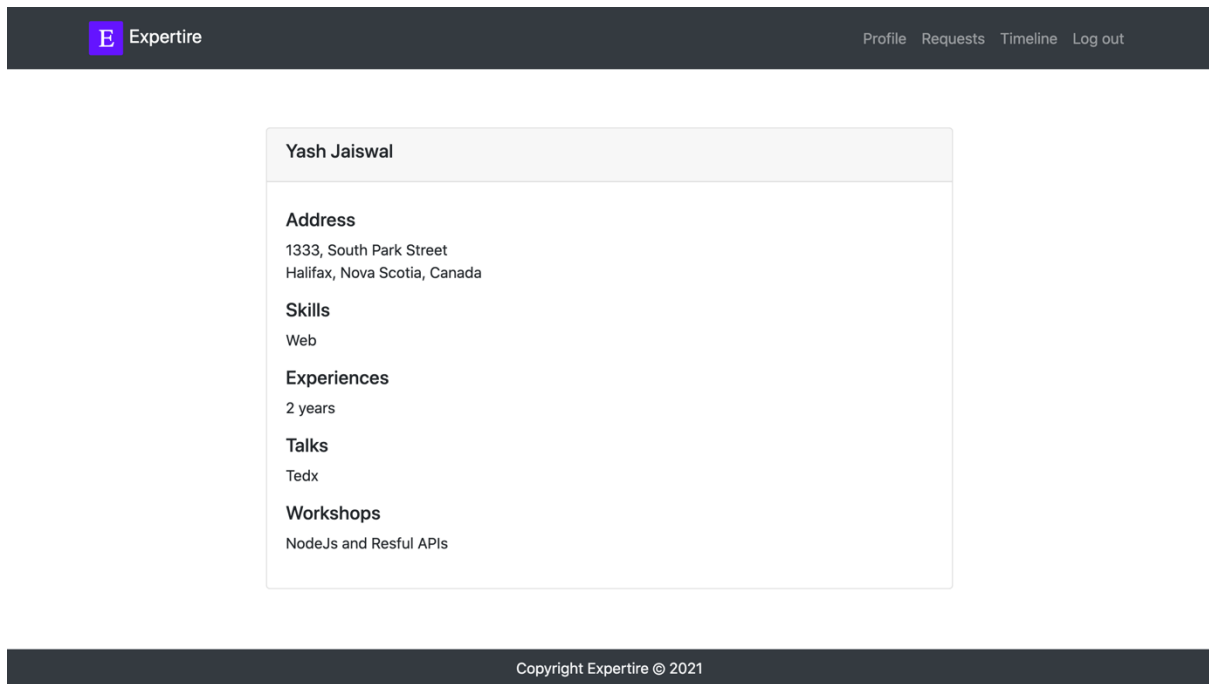
Address

1333, South Park Street
Halifax, Nova Scotia, Canada

Skills

Web

Experiences

2 years

Talks

Tedx

Workshops

NodeJs and Resful APIs

Figure 15: Expert Profile View Page

Expert

Yash Jaiswal

Address

1333, South Park Street
Halifax, Nova Scotia, Canada

Skills

Web

Experiences

2 years

Talks

Tedx

Workshops

NodeJs and Resful APIs
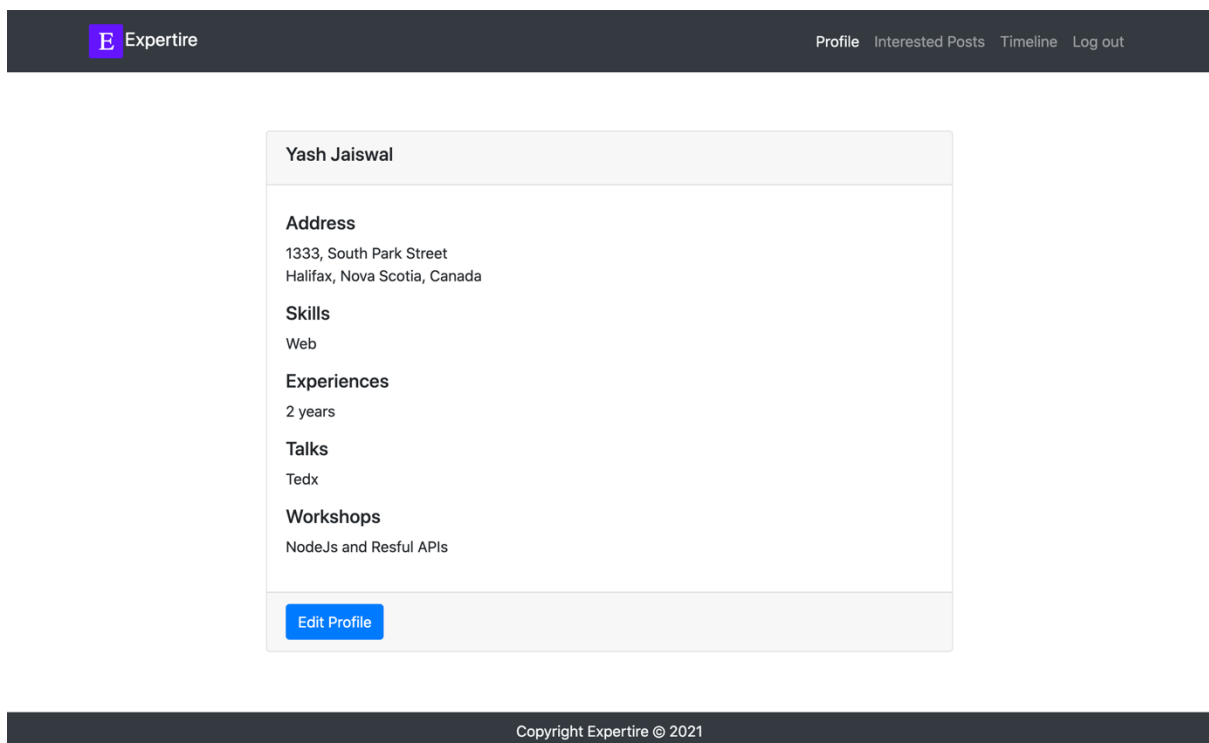
Edit Profile

Figure 16: Expert Profile Page

Edit Expert Profile

First Name

Yash

Last Name

Jaiswal

Street Address

1333, South Park Street

City

Halifax

Province

Nova Scotia

Country

Canada

Skills

Web

Experiences

2 years

Talks

Tedx

Workshops

NodeJs and Resful APIs

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 traning workshop session. Interested Expertes Please Revert Back.

View Institute   I'm Interested

Kingstong University

ReactNative Expert Needed!!!!

We have a requirement for a React Native Expert at Our University for a handson traning workshop session. Interested Expertes Please Revert Back.

View Institute   I'm Interested

Figure 18: Expert Timeline

E Expertire

Interested Posts

Post by Kingstong University

Machine Learning Expert Needed!!!!

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

View Institute   Cancel

Figure 19: Expert Interested Posts Page

E Expertire

Kingstong University

Address

1333, South Park Street
Halifax, Nova Scotia, Canada

About us

Started in 1880

Figure 20: Institute Profile View Page

Task Flows
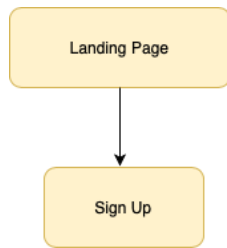
Figure 21 - Sign up [2]
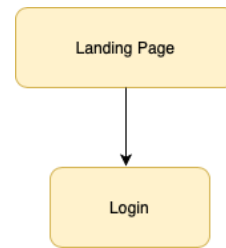
Figure 22 – Login [2]
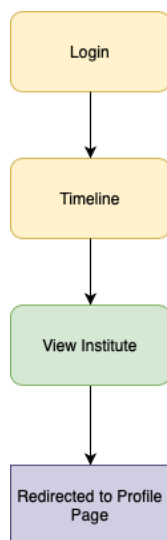
Figure 23 - View institute [2]

Figure 24 - Adding to requests list [2]
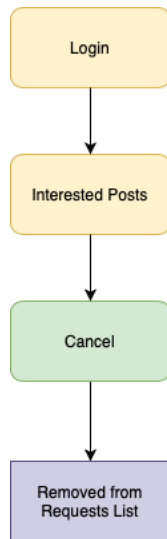
Figure 25 - Removing from requests list [2]
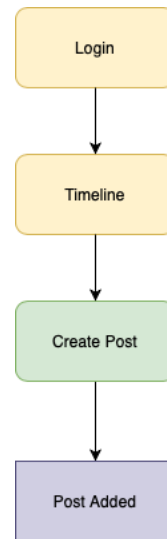
Figure 26 - Create post [2]
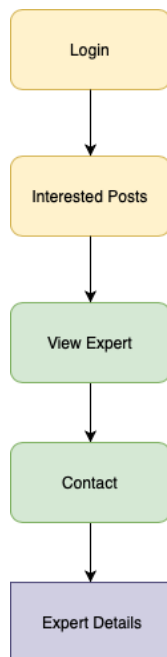
Figure 27 - View expert [2]
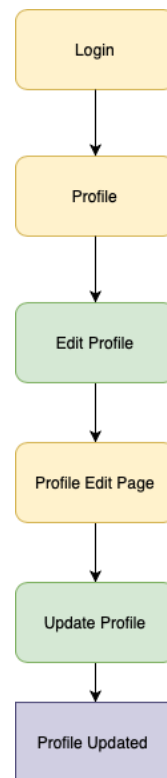
Figure 28 – Expert/Institute update profile [2]

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
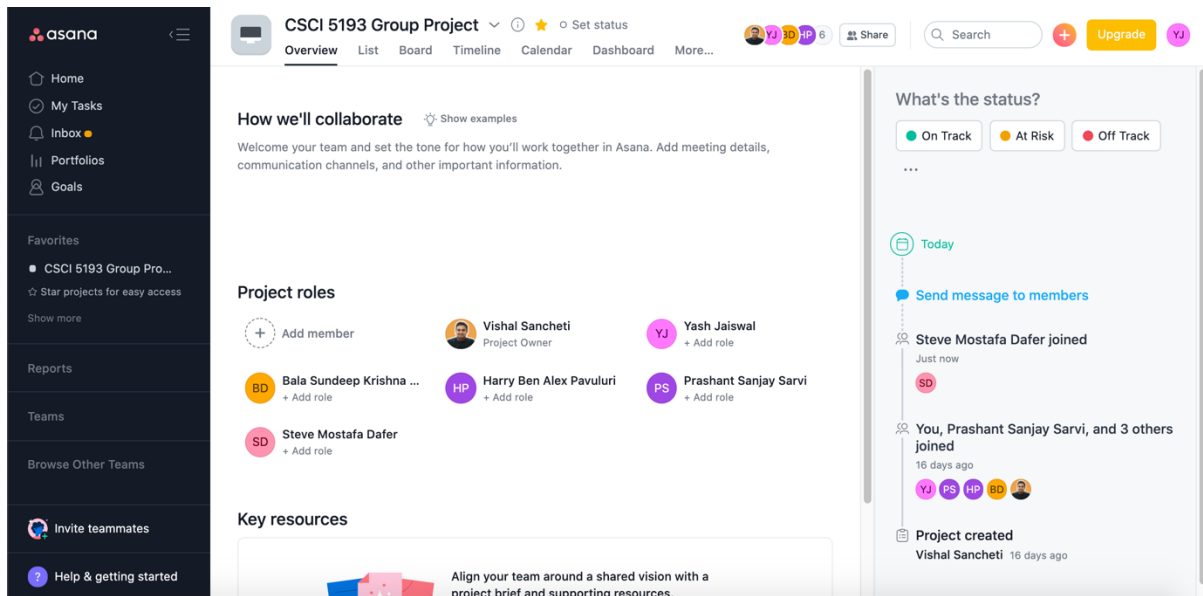
Figure 29: Asana Overview
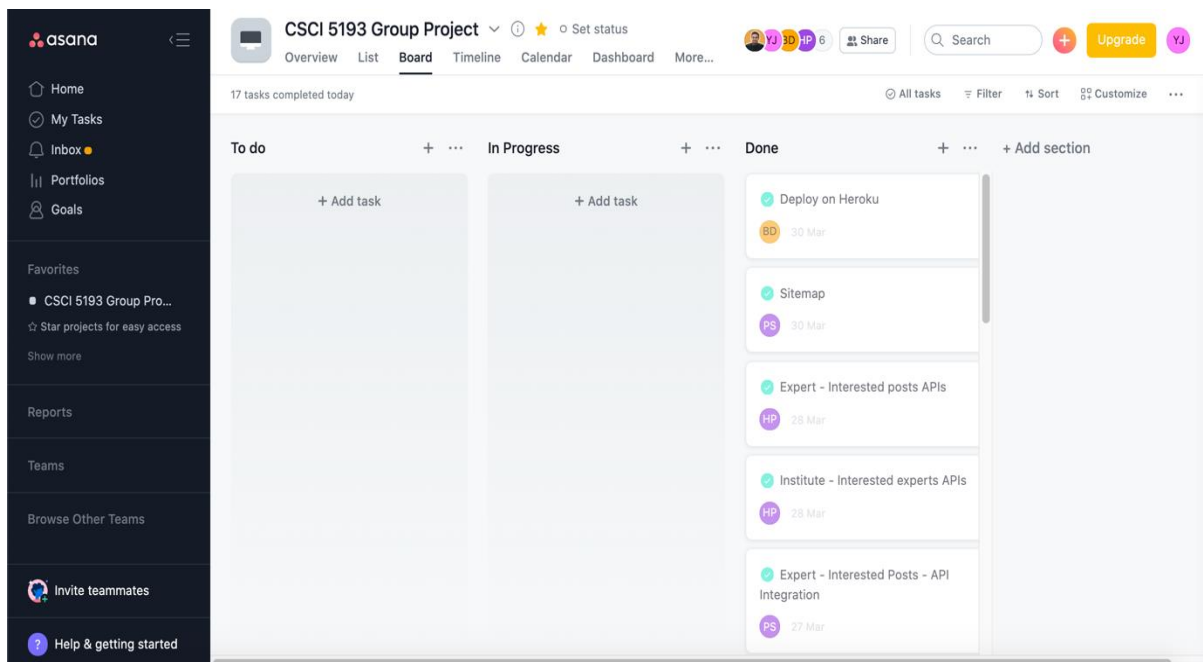
Figure 30: Asana Kanban Board

Figure 31: Task List 1

Figure 32: Task List 2

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/