

# The Project Hub

## Introduction

"The Project Hub Apps", a groundbreaking initiative designed to revolutionize the way we access, explore, and engage with the knowledge and innovation of our university students. Project Hub Apps emerges as a transformative platform that empowers individuals to effortlessly discover, contribute, and get knowledge on projects that shape our capability.

At its core, the Project Hub Apps embody the belief that technology can enhance our ability to share, learn, and create together. By harnessing the power of mobile applications, Project Hub provides an immersive experience that seamlessly integrates project archives, project ideas generator tools, and a rich repository of resources, allowing students to maximize their productivity and creativity.

The primary objective of Project Hub Apps is to empower individuals or teams with the tools they need to turn their ideas into reality. Whether you're a student working on a study project, an entrepreneur building a startup, or a professional embarking on a new venture, PH offers a dynamic and user-friendly ecosystem where the user gets maximum knowledge.

## Objectives

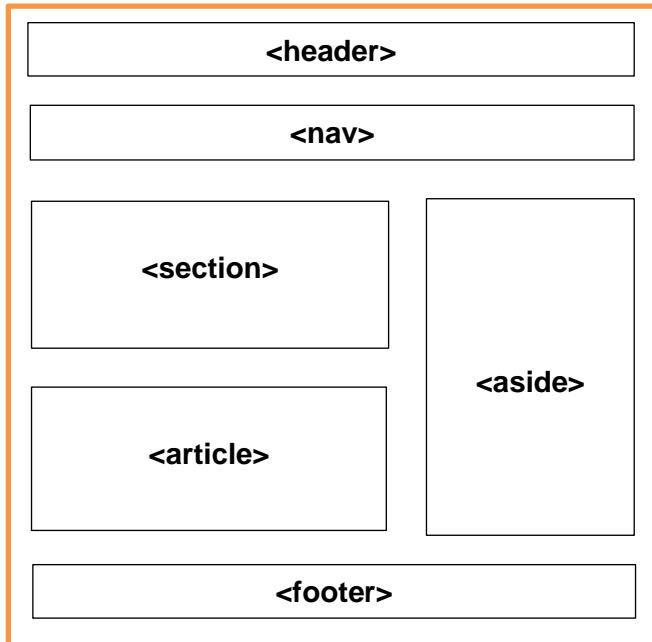
- To get knowledge and ideas about all previous final projects.
- To facilitate project team members through collaboration and knowledge sharing.
- Project library can also encourage students for research by providing access to primary sources related to a project. This information can be used by researchers to study the project's history, development, and impact.
- Long-term preservation and sustainability: Project libraries can be designed to ensure the long-term conservation and sustainability of project information. This includes considerations such as appropriate storage formats, data backup, migration strategies, and recovery plans.
- Creating easy access to previous projects for faculty and students
- To filter if the project has been done by a previous batch.
- To generate new project ideas.
- To make a portfolio of university projects.

## **List of outputs**

1. Main Interface.
2. List of Batch.
3. Batch's project list.
4. Find specific project and suggest search related project.
5. Most popular project list.
6. Project Proposal format as suggested by teacher.
7. Project Book format as suggested by teacher.

## Output Discussion

1. **Main Interface:** This is the structure of the first page of our apps.



2. **List of Batch:** Each semester at our University, Some teams are formed and submit different projects. If we add those project in the available next time. Fore Example: Two teams are formed within our batch, If the projects of these two teams are added to the apps, We can see those project at any time according to the name of the batch.

<b><u>Batch's List</u></b>	
<b><u>Batch #52</u></b>	
<b><u>Batch #51</u></b>	
<b><u>Batch #50</u></b>	
<b><u>Batch #49</u></b>	
	<a href="#">See More...</a>

3. **Batch's project list:** Here display all batch related projects, that will be added to the app with the batch.

<u>Batch's Project List</u>	
<u>Batch #52:</u>	
1. Project team number1	
2. Project team number2	
<u>Batch #51:</u>	
1. Project team number1	
2. Project team number2	
3. Project team number3	
	See More...

4. **Find specific project and suggest search related project:** We can search for specific projects here. Then we will get the GitHub link of all the projects. And with some project related to search will be suggested.

<u>Available Project</u>	
1. Project1.	
2. Project2.	
3. Project3. <u>See more...</u>	
<u>Suggest:</u>	
1. Project1	
2. Project2	
3. Project3	
4. Project4. <u>See more...</u>	

5. **Most popular project list:** There will be many projects in these apps. But day by day some projects will become popular. Those projects will be displayed in list form here.

<u>Popular Project</u>
1. Project.
2. Project2.
3. Project3.
4. Project4.
5. Project5.
6. Project6.
7. Project7. <u>See more...</u>

6. **Project Proposal format as suggested by teacher:**

Format Link: <http://proposalformat.com>

7. **Project Book format as suggested by teacher:**

Format Link: <http://bookformat.com>

## **List of inputs**

1. Create New Account.
2. Login.
3. Add project.
4. Search and Filters.
5. Rating and Reviews.
6. Discussion Option.

## Input Discussion

1. **Create New Account:** To use these apps the user must create an account.

**Table Name:** User Table

<b>Id</b>	<b>Username</b>	<b>E-mail</b>	<b>Password</b>	<b>Batch_ Number</b>	<b>Role</b>	<b>Created_date</b>
01	Md Mehedi Hasan	mehedi35@gmail.com	*****	52	0	02-06-2023
02	Md. Zahidul Islam	zahid30@gmail.com	*****	52	1	04-05-2023
03	Bijoy Karmokar	bijoy25@gmail.com	*****	52	2	03-05-2023
						<div>SIGN UP</div>

2. **Login:** If the user has already created the account. Then next he just has to login with his e-mail and password.

E-MAIL	PASSWORD
mehedi35@gmail.com	*****
zahid30@gmail.com	*****
bijoy25@gmail.com	*****
<div>LOGIN</div>	



3. **Add project:** By coming here, all the teams of each batch can complete the information and submit the project GitHub link.


**Table Name:** Add Project Table


<b>Id</b>	<b>Project_ Name</b>	<b>Batch_ Number</b>	<b>Project_ Team_ Number</b>	<b>Created_ Date</b>
01	Lost & Found	52	01	28-07-2023
02	The Project Hub	52	02	05-07-2023
				<div>SUBMIT</div>

4. **Search and Filters:** In this section, users to search for project ideas based on different criteria. Additionally, provide filters to refine search results.

**Table Name:** Searching Table

<b>Project_ Name</b>	<b>Batch_number</b>	<b>Project_ Team_ Number</b>
Lost & Found	52	01
Project2	51	03
Project3	49	01

Search...



1. Lost & Found5201.

2. Project25103.

3. Project34901.

4. Project4..[See more...](#)

5. **Rating and Reviews:** Allow users to rate and review projects. This will help students get feedback and recommendations from their peers.

**Table Name:** Review table

Id	Rating_Number	Comment	Project_Id
01	5	Good	01
02	4	Good	02
03	5	Better	03

**Review**

**Rating:** 


**Comment:**

6. **Discussion Option:** A discussion forum where students can ask question and get advice.

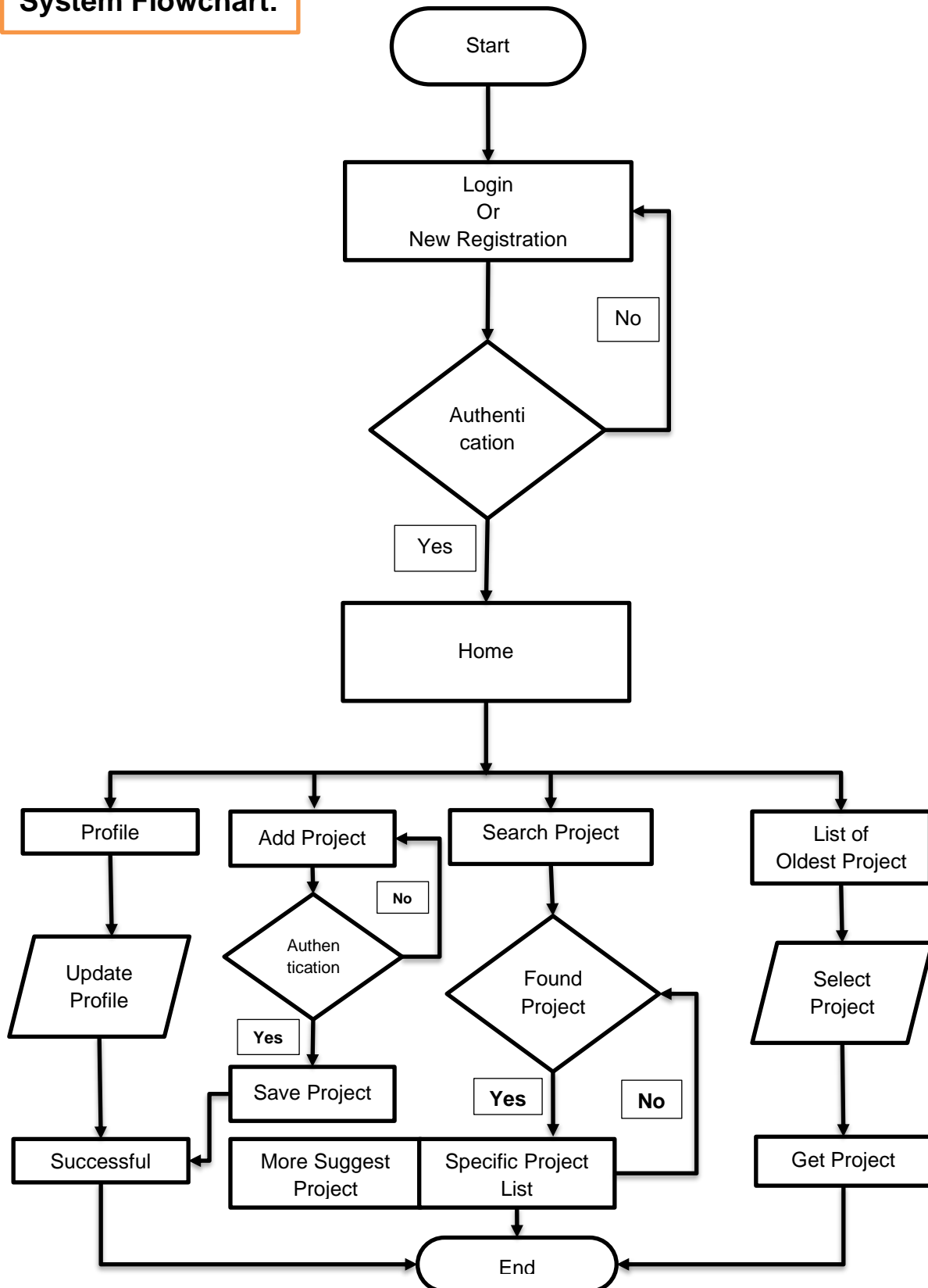
**Table Name:** Discussion Table

Sender	Message	Receiver
User	Any message	Admin

**Project Hub**  
Active

☒  

## System Flowchart:



## Technical Stack Diagram

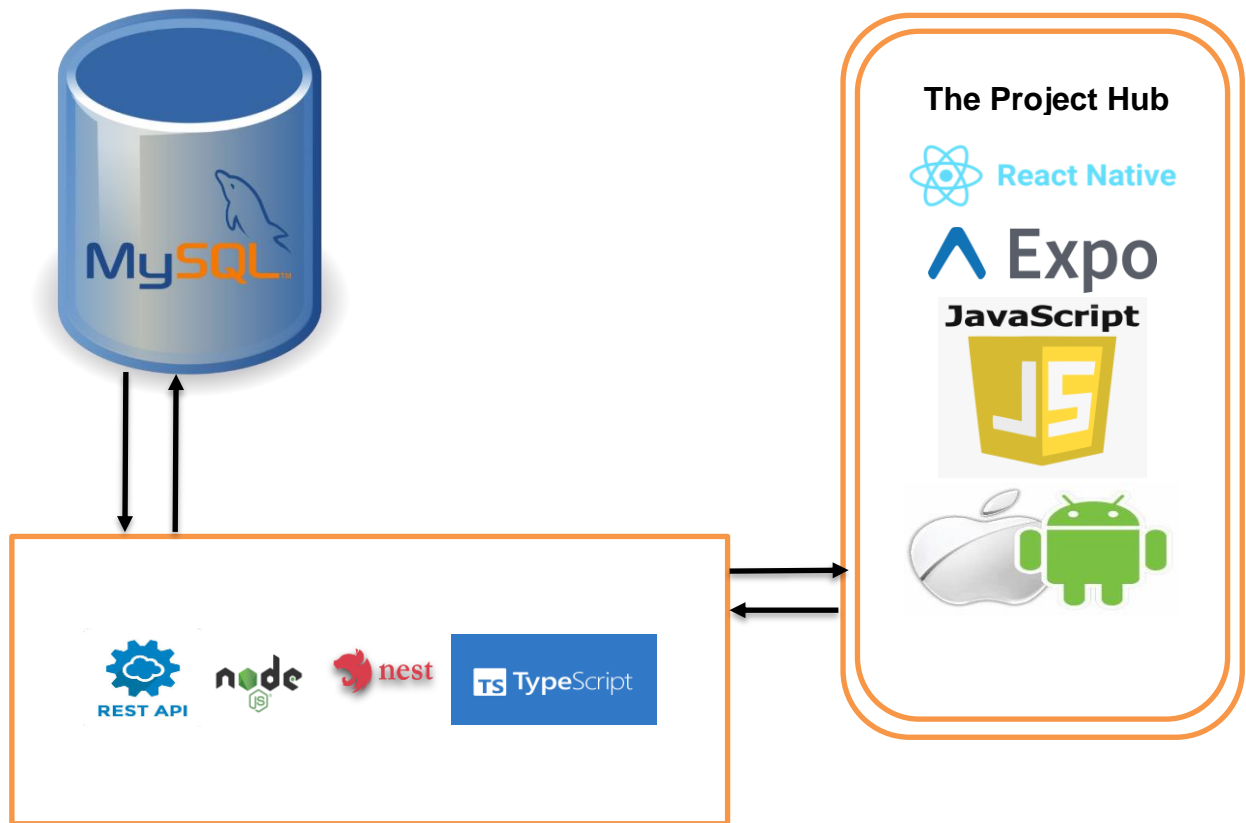


Figure: Technical Stack Diagram (The Project Hub)

## Required Tools

### Software:

- ✚ **Operating System:** Ubuntu
- ✚ **Documentation Tool:** Microsoft Word Docs
- ✚ **Code Editor:** Microsoft Visual Studio Code. (VS Code)

### Programming Language:

- ✚ JavaScript
- ✚ TypeScript

### Compiler:

- ✚ **Expo CLI:** Expo is an open source platform for making universal native apps for Android, iOS and the web with JavaScript and React.

### Frameworks:

- ✚ React Native
- ✚ Nest JS (Node.js)

### Database:

- ✚ MySQL

### Software Development And Version Control Tool:

- ✚ GitHub

### Deployment:

- ✚ Firebase

## Estimated Duration and Time Frame

## Gantt chart

[illegible]

## **Conclusion**

In conclusion, the Project Hub app provides a comprehensive platform for submitting and obtaining information about various types of software projects for university students. By allowing users to submit their projects, the library app fosters a collaborative environment where project owners can gain visibility and engage with potential contributors. Additionally, users looking for project opportunities can easily browse through the app to find projects that align with their areas of interest and expertise. Its user-friendly interface and well-organized structure make it an indispensable resource in the Universities final year project landscape.