Build a portal to select the project title based on the availability in the given list of titles

Name	Hamsavardhini B
Roll no	7376221CS159
Seat no	48
Project ID	08
Problem Statement	Project Work Title Registration Portal

Problem Statement:

The aim of this project is to develop a web-based portal for selecting project titles from a predefined list and external project titles. This project will facilitate the process of choosing project topics by team leader only in a team of maximum 3 members, allowing students to search available titles and guide, view their details, and make selections of project and guide.A guide can at most have 4 students who approval will be handled.After approval of guide ,a mail is sent to team leader as approved or rejected.Admin has the access to track the approval and rejection list and make overall changes in the portal.

1.2. Scope of Project:

- **Student Login**: This system will allow students to log in and browse a list of project titles. They can view detailed descriptions of both internal and external projects, select their preferred project, and submit their choice for approval. The system provides a clear interface for students to manage their project selection process.
- **Guide Login:** Faculty members, acting as guides, can log in to oversee and manage the projects. They can review student selections,approve through the project life cycle.
- **Admin Login:** The admin is responsible for maintaining the project list, updating project details, editing and categorizing projects as internal or external. They oversee the entire system, manage user permissions, and generate reports on project allocations, selections, and approvals to ensure smooth project management.

2. System Overview:

2.1. Student: Students can log in to the portal to view available project titles, choose a project based on their preference, and submit their selection for approval. They can also check the status of their project selection and receive notifications about updates or changes.

2.2.Guide: Guides can log in to review student project selections, approve student choices and they will be notified through mail for

students approval.

2.3.Admin: The admin is responsible for maintaining the overall structure and content of the portal. They can add or remove project titles, categorize projects as internal or external, and manage user access and permissions. Admins also track project selections, and generate reports of the final list.

2.2. Features:

1. Login:

- Students, guides , admin can login into the valid email account provided by the college.

2.Project Selection:

- Provide a list of project titles categorized as internal or external.
- Allow students to select project titles based on their interests.
- Enable guides to review and approve project selections made by students.

3.Approval Management:

- Admins can add new project titles to the list and categorize them as internal or external.
- Guides can provide approval to the project selected.

4.Reporting and Analytics:

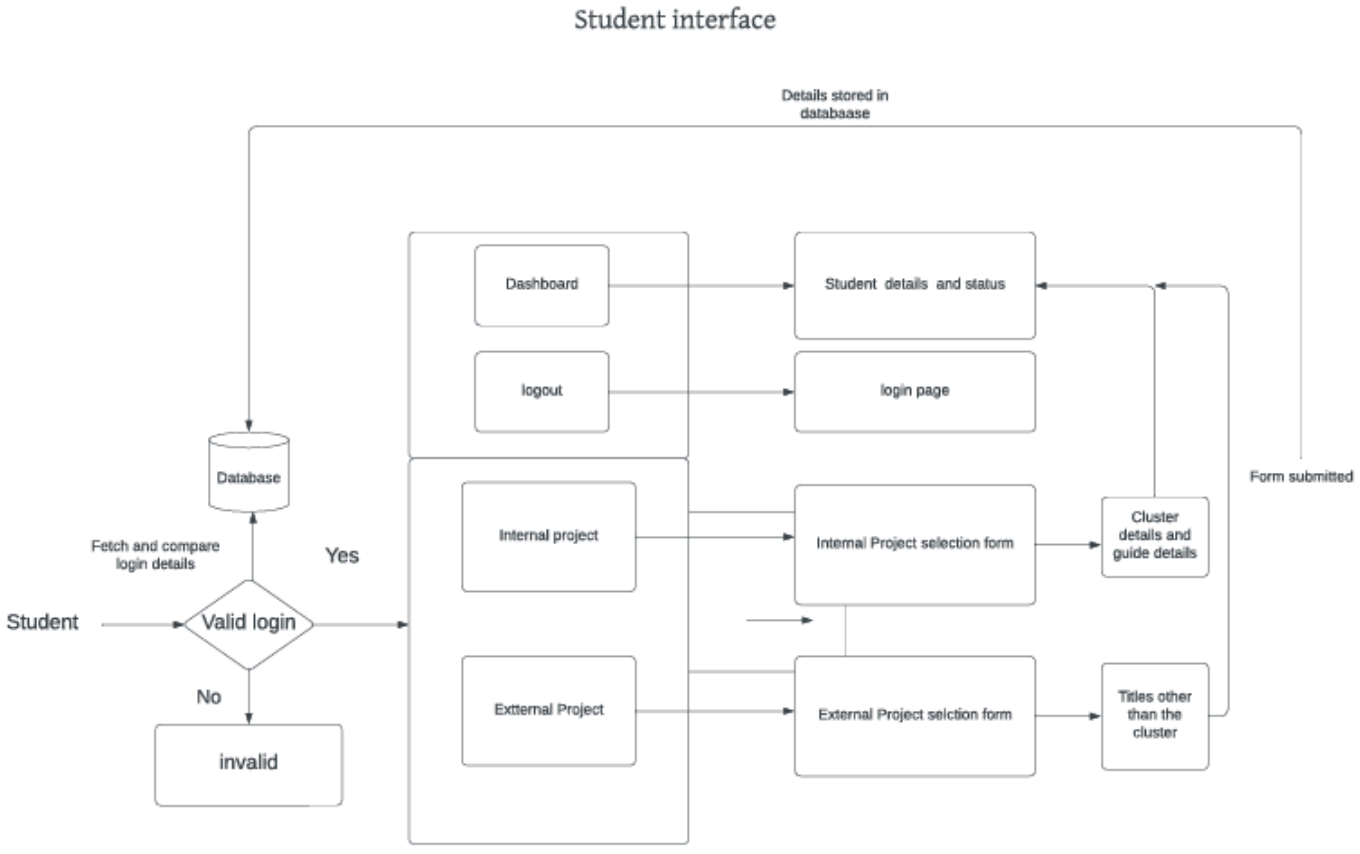
- Generate reports on project allocations, student selections, and approvals for analysis.

Stack:

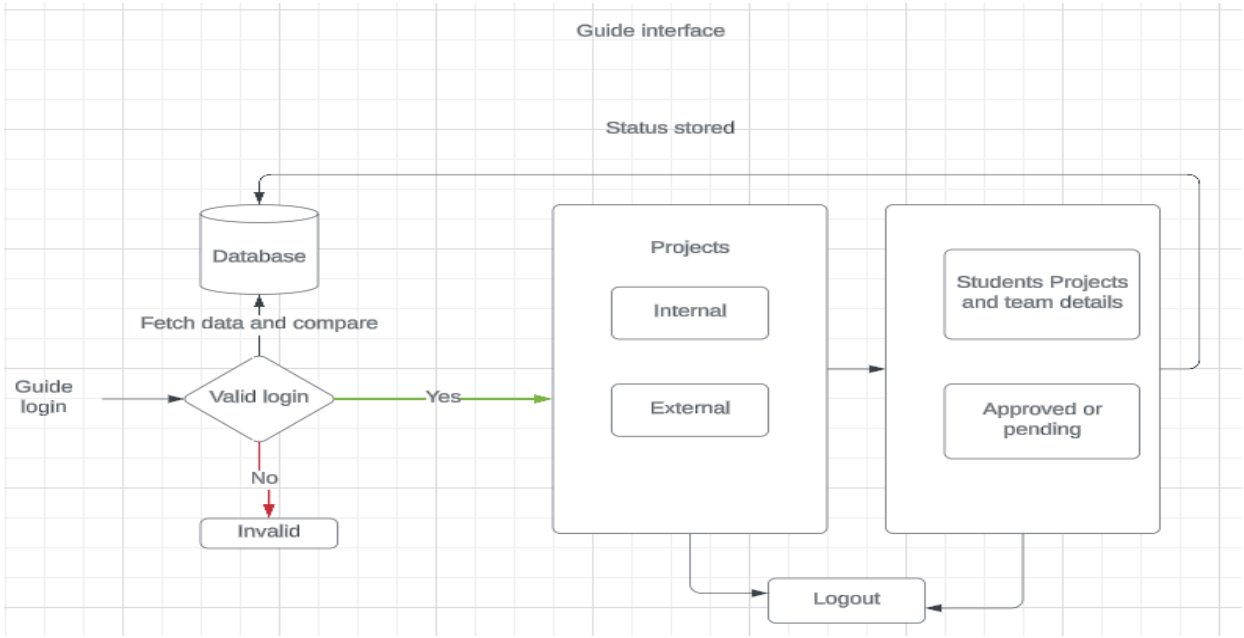
Front End	Angular
Backend	Express js,Node js
Data Base	MongoDB

Flowchart:

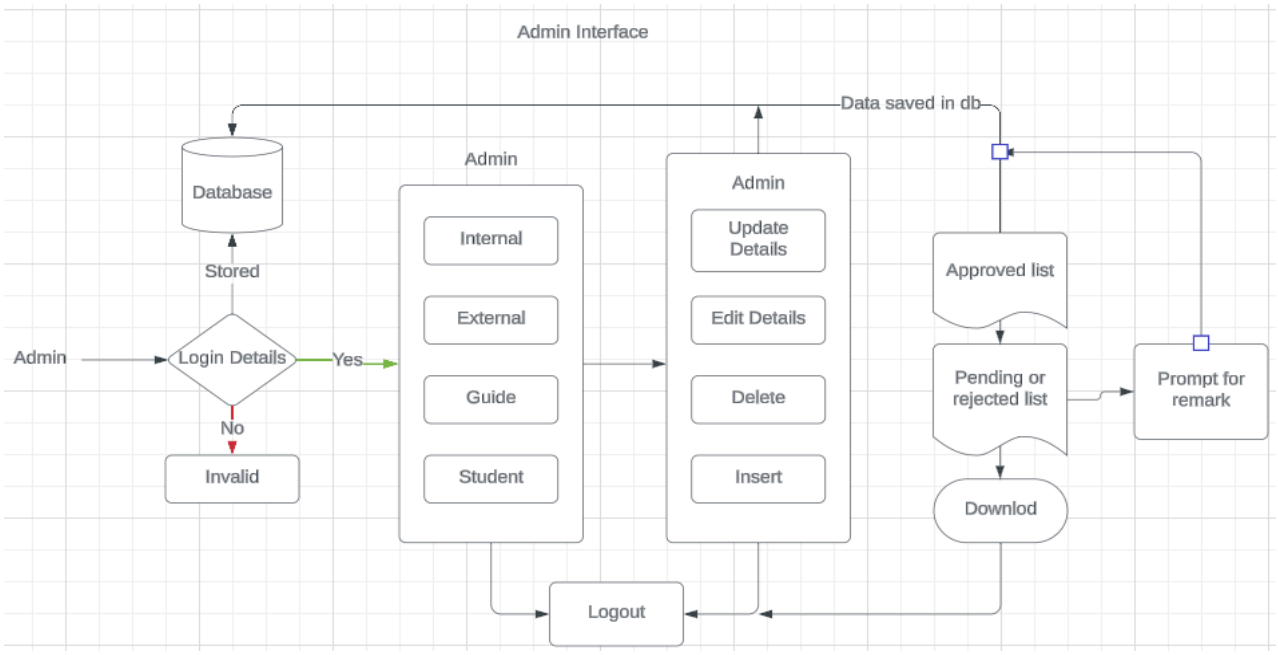
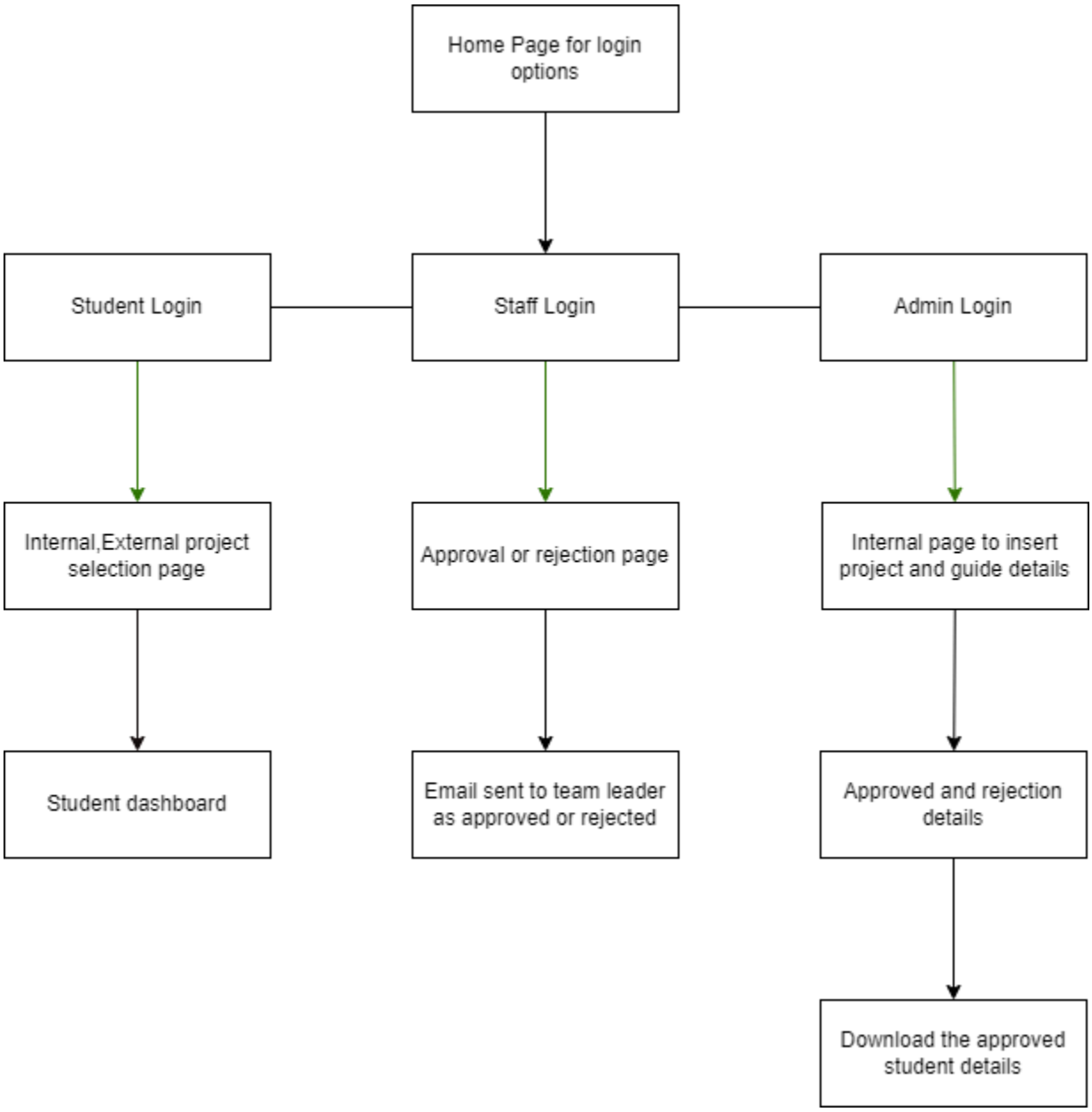
Students:



Guide:


Guide interface
Status stored
Database
Fetch data and compare
Guide login
Valid login
Yes
No
Invalid
Projects
Internal
External
Students Projects and team details
Approved or pending
Logout

Admin:


Admin Interface
Data saved in db
Database
Stored
Admin
Login Details
Yes
No
Invalid
Admin
Internal
External
Guide
Student
Admin
Update Details
Edit Details
Delete
Insert
Approved list
Pending or rejected list
Prompt for remark
Downlod
Logout

Project flow: