



BANNARI AMMAN INSTITUTE OF TECHNOLOGY

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Sathyamangalam - 638401 Erode District, Tamil Nadu, India

Student Name: PRASANNA KUMAR K B

Seat No: 288

Project ID: 08

Project title: PROJECT WORK TITLE
REGISTRATION PORTAL

TECHNICAL COMPONENTS

Component	Tech Stack
Backend	Express.js, Node.js
Frontend	Angular
Database	MongoDB
API	RESTful API

IMPLEMENTATION TIMELINE

Phase	Deadline	Status	Notes
Stage 1	02/05/2024		Planning and Requirement gathering
Stage 2			Design and Prototyping
Stage 3			DB Designing
Stage 4			Backend Implementation
Stage 5			Testing & Implementation

PROBLEM STATEMENT:

Manual and Time-Consuming Process: Currently, project title registration involves manual paperwork or email exchanges, leading to delays and inefficiencies. There is a need for an automated system that simplifies and accelerates the registration process.

Lack of Centralized Platform: Without a centralized platform, tracking project registrations, approvals, and updates becomes challenging for both students and faculty. A centralized portal can enhance transparency and accountability in the registration workflow.

Difficulty in Monitoring Progress: Administrators and faculty advisors often struggle to monitor the progress of project registrations and provide timely feedback or approvals. An integrated system can facilitate real-time tracking and communication throughout the registration lifecycle.

Limited Accessibility and Visibility: Current methods may restrict access to project registration information, leading to a lack of visibility and collaboration opportunities among students and faculty.

IMPORTANT FEATURES:

FOR STUDENTS:

Title Selection:

Students can browse and select available project titles from a list provided within the portal.

Real-time Updates:

The portal ensures real-time updates on the availability of project titles, avoiding duplication and confusion.

Unique Title Allocation:

Each project title is assigned on a first-come, first-served basis, ensuring fairness and avoiding duplicate selections.

User Authentication:

Secure login ensures that each student can only select one project title, reducing the likelihood of duplicate submissions.

Title Reservation:

Option for students to reserve a chosen title for a limited time while they finalize their decision, preventing others from selecting the same title.

FOR FACULTIES:

Efficiency: Simplifies the process of managing project titles, reducing administrative workload and saving time.

Clarity: Provides clear visibility into which project titles are available and which have been selected by students, minimizing confusion and ensuring accurate record-keeping.

Prevention of Duplication: Helps prevent duplicate submissions and ensures that each project title is assigned to only one student, avoiding potential issues with overlapping projects.

Fairness: Ensures fairness in title allocation by implementing a first-come, first-served approach, promoting equal opportunity for students to select their preferred titles.

Real-time Updates: Offers real-time updates on title availability, enabling faculty members to promptly address any issues or discrepancies that may arise.

PROJECT-FLOW:**Purpose:**

The purpose of the Project Work Title Registration Portal is to provide a centralized and efficient platform for managing the registration process of project titles in academic institutions.

Scope:

It includes automating the submission and approval process of project titles, facilitating real-time tracking and communication between students and faculty advisors, and ensuring robust security measures to safeguard sensitive project information.

Business Context:

The business context of the Project Work Title Registration Portal lies within the realm of educational institutions, where efficient management of project titles is essential for academic excellence and institutional growth.

Consideration:

- Streamlined user interface for seamless project title submission, ensuring efficient registration process for college students.
- Users have regular access to internet-enabled devices.

Dependencies:

- Integration with Google OAuth for user authentication.
- Backend Framework: Express.js, Node.js
- Database: MongoDB.
- Frontend Framework: Angular.

User personas:

- **Student:** Submits project titles.
- **Faculty Advisor:** Reviews and approves titles.
- **Administrator:** Manages user accounts and system settings.

User Stories:

- **Student Registration:**

As a student, I want to sign up with my university email so I can submit project titles.

- **Faculty Approval:**

As a faculty member, I want to review and approve project titles submitted by students.

- **Admin Control:**

As an administrator, I want to manage user accounts and permissions.

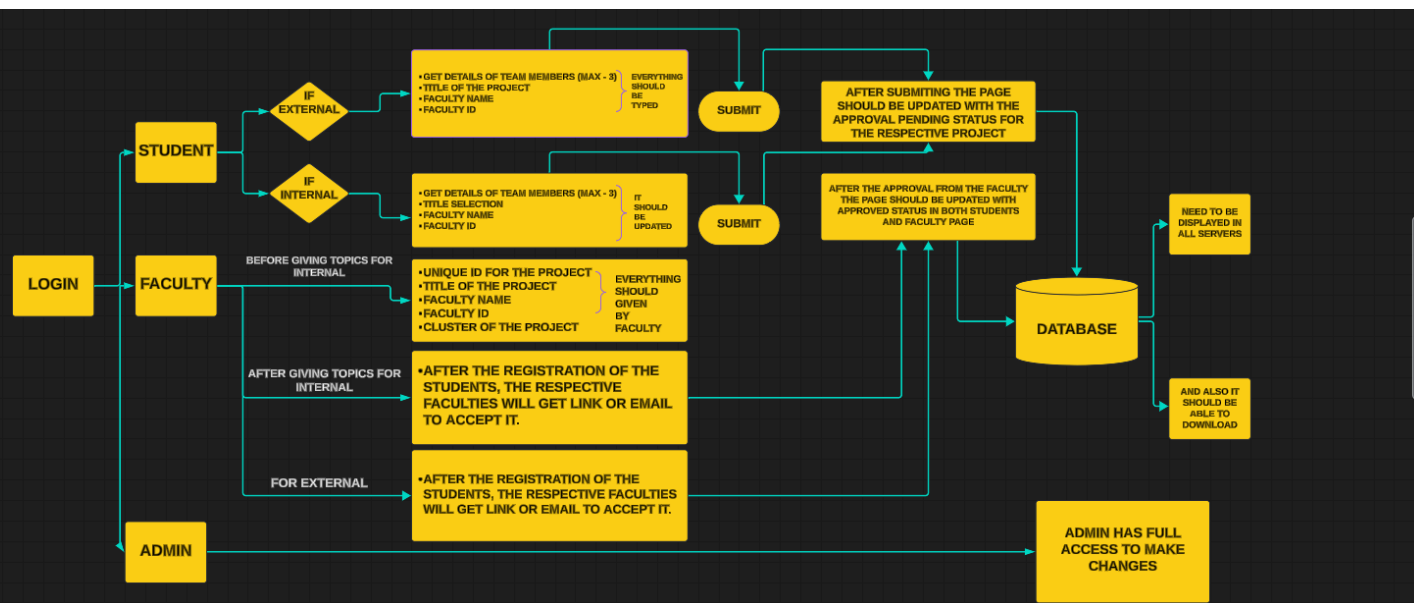
- **Project Submission:**

As a student, I want to submit project titles for review.

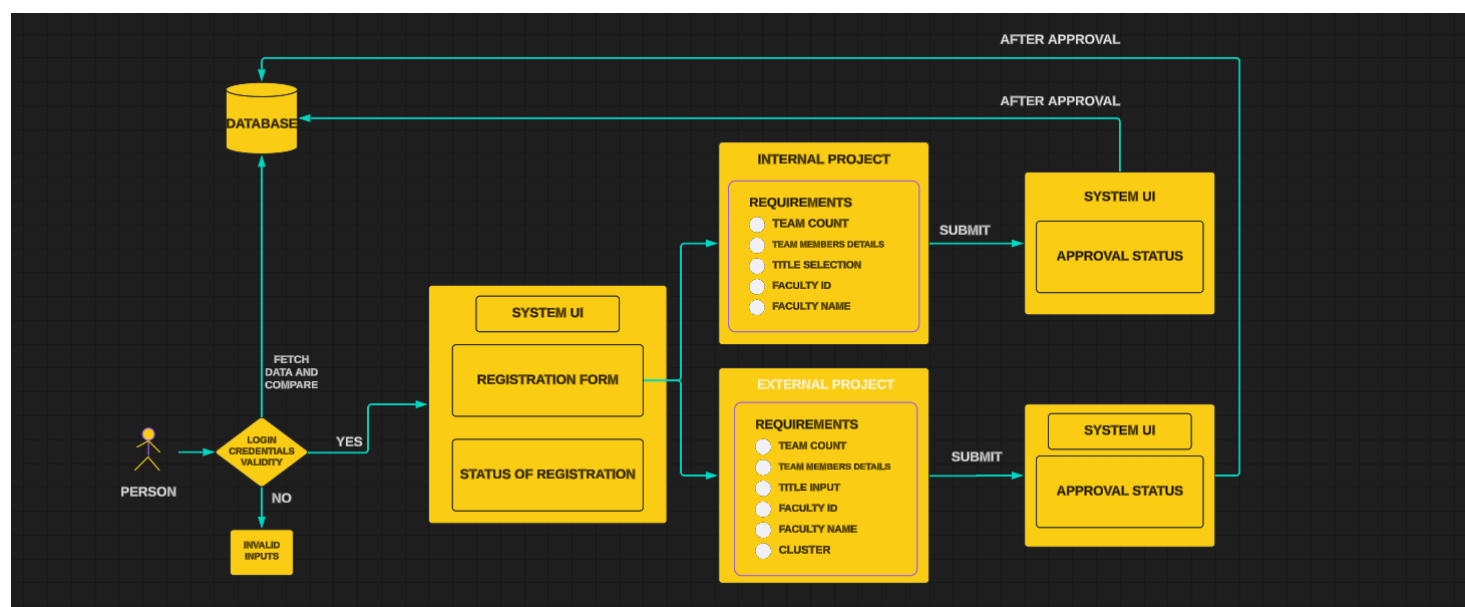
FUNCTIONAL REQUIREMENTS:

- **User Registration & Authentication:** Enable users to register and log in securely.
- **Title Submission & Management:** Allow users to submit, edit, and delete project titles.
- **Approval Workflow:** Implement a process for reviewing and approving submitted titles.
- **Search & Discovery:** Provide users with search and filtering options to find project titles efficiently.

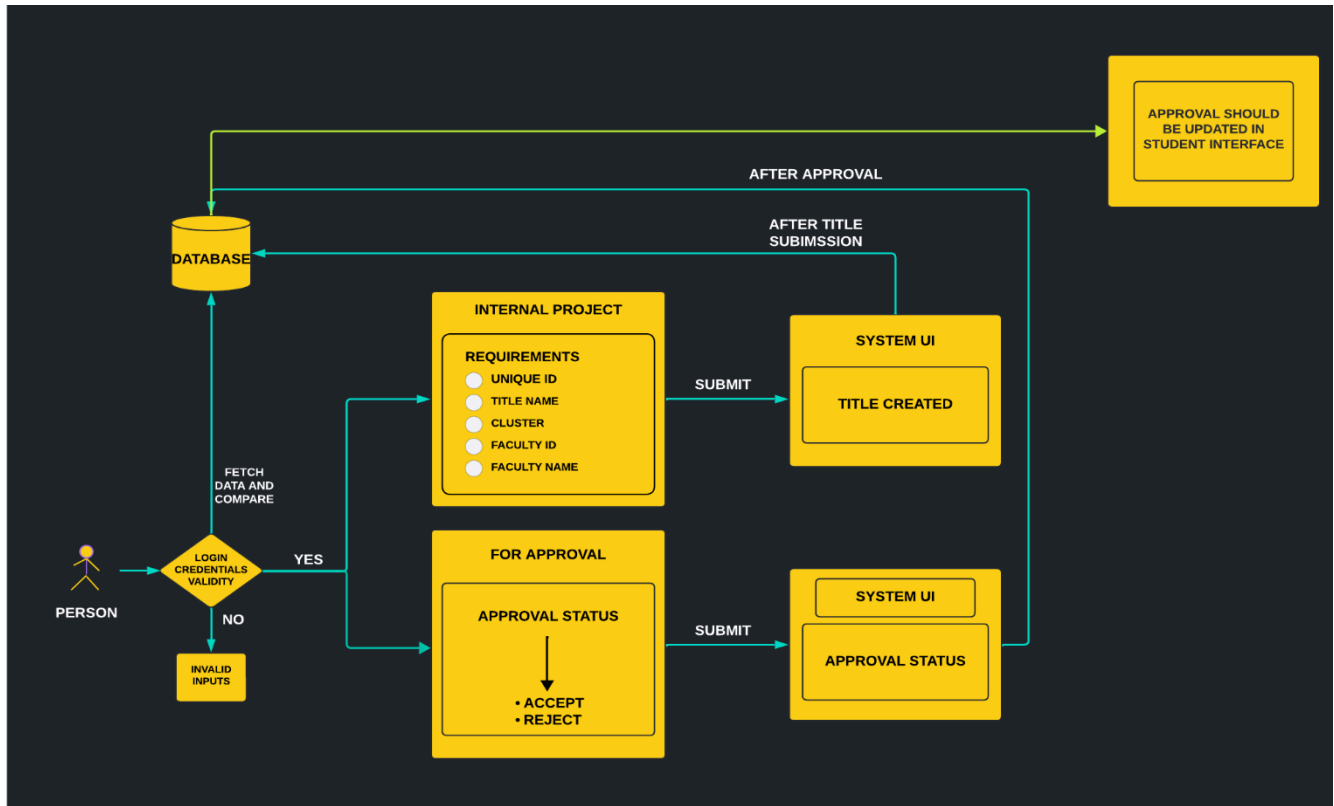
FLOW CHART:



STUDENT INTERFACE:



FACULTY INTERFACE:



ADMIN INTERFACE:

