



BANNARI AMMAN INSTITUTE OF TECHNOLOGY
An Autonomous Institution Affiliated to Anna University - Chennai, Accredited by NAAC with A+ Grade
Sathyamangalam - 638401 Erode District, Tamil Nadu, India



Student Name : Praveen N
Seat No : 414
Project Id : 14
Project Title : Special Lab Portal

Technical Components :

Components	Tech Stack
Backend	NODE.js
Frontend	REACT.js
Database	MongoDB
API	RESTful API

Implementation Timeline :

Phase	Deadline	Status	Notes
Stage 1	04/05/2024	In Progress	Planning and requirement gathering
Stage 2		Not Started	Design and UI/UX Prototyping
Stage 3		Not Started	Database Design and Implementation
Stage 4		Not Started	Backend Development

Stage 5		Not Started	Integration and Testing
Stage 6		Not Started	Deployment

Problem Statement :

Members of the Special Lab are admitted through an interview process. These members are required to meet the targets set by the responsible authority. The development of products must adhere to industry standards and undergo review. Any transfers within the lab must be communicated to both the relevant student and the supervisor. Student accomplishments will be showcased on the portal.

Project-Flow :

Purpose :

The Special Lab admission process aims to select qualified members through interviews, ensuring they meet set targets, adhere to industry standards, and showcase their accomplishments on the portal.

Scope :

Conducting interviews for Special Lab admission, monitoring members' progress towards meeting targets, ensuring product development adheres to industry standards, showcasing student accomplishments on the portal, and managing transfers within the lab.

Business Context :

In an educational institution, the Special Lab serves as an opportunity for students to engage in advanced projects and research. Adherence to industry standards ensures the quality and relevance of the lab's output, enhancing the institution's reputation.

Considerations :

- Ensuring that all products developed within the lab meet relevant industry standards.
- Establishing effective communication channels to notify both students and supervisors about any transfers within the lab fosters transparency, clarity, and accountability.

Dependencies :

- Availability of qualified faculty for interviews is vital for the Special Lab's success.
- Clear communication channels and an effective portal system are essential for notifying students and supervisors of transfers and tracking progress and accomplishments.

User Personas :

Faculty : Update lab activities, setting targets and conducting interviews

Student : Developing products to industry standards, showcasing accomplishments, and actively participating in lab activities.

User Stories :

- As a faculty member, I need to ensure the lab activities without conflicting with other scheduled activities.
- As a student, I want to take responsibility and be effective in lab activities.

Functional Requirements :

- **Interview Management :** Efficient scheduling and conducting of interviews for Special Lab admission ensure the selection of qualified candidates.
- **Target Setting and Monitoring :** Clear definition and monitoring of targets ensure that students work towards specific objectives, contributing effectively to the lab's goals.

- **Product Development Oversight :** Supervision of product development processes ensures that all outputs meet industry standards, maintaining the lab's reputation for quality work.
- **Communication Channels :** Clear communication channels facilitate seamless transfer notifications and updates, fostering transparency and collaboration within the lab.

Flow Chart :

