STUDENT NAME: SHAMYUKTHA K

SEAT NO: 155

PROJECT ID: 27

PROJECTTITLE:

S8 Project follow-up and project review conduction and report collection

TECHNICAL COMPONENTS:

Backend	HTML, CSS, javascript
Frontend	Linux , Apache ,PHP
Data base	MYSQL
API	REST Ful API

IMPLEMENTATION TABLE:

Phase	Status	Notes
Stage1	Under review	Planning and Requirement gathering
Stage2	started	Design and Prototyping
Stage3	Not started	DB Designing
Stage4	Not started	Backend Implementation
Stage5	Not started	Testing & Implementation
Stage6	Not started	Development

1.INTRODUCTION:

1.1 PURPOSE:

- This document details the S8 project follow-up, review conduction, and report collection process, managing team-based project registration, topic selection adherence to cluster guidelines, and communication of project status.
- The system aims to prevents registration errors, avoids topic duplication, and provides accessible information to students and faculty guides.

1.2 SCOPE OF THE PROJECT:

- Enable team leads to register their teams seamlessly for project participation.
- Display detailed information (names, roll numbers, clusters, email IDs) of team members after registration.
- Restrict topic choices to align with team clusters to ensure relevance and focus.
- Facilitate selection of faculty guides from the same cluster to enhance project support.
- Provide a centralized portal for real-time updates on project acceptance or rejection status.

2. SYSTEM OVERVIEW:

2.1. USER'S:

- STUDENTS:

  Register teams, provide necessary details, select topics within their cluster, and track project status.

- FACULTY(GUIDE):

  Review and approve/reject project submissions, provide guidance to student teams within their cluster, and monitor project progress.

- ADMINISTRATORS:

  Manage the project registration system, ensure compliance with guidelines, generate reports, and oversee the project status portal for decision-making.

3.1. FUNCTIONAL REQUIREMENTS:

➢ USER REGISTRATION AND AUTHENTICATION:

- Allow team leads to register teams and verify email.
- Provide login functionality for students and faculty.
- Ensure secure authentication for all users.

➢ TEAM AND MEMBER MANAGEMENT:

- Enable team creation and management by team leads.
- Display detailed information about team members post-registration.

➢ TOPIC SELECTION:

- Restrict topic selection to the team's designated cluster.
- Disable topics already chosen by other teams.
- Provide an interface for selecting topics based on cluster.

➢ FACULTY GUIDE SELECTION:

- Display available faculty guides based on the team's cluster.

➢ PROJECT STATUS UPDATES:

- Provide a centralized portal for real-time project status updates.

- Notify students and faculty of status changes (accepted/rejected).

➢ REPORTING AND MONITORING:

- Track project progress and make it visible to relevant users.

- Generate reports on project status, issues, and outcomes.

- Provide interfaces for monitoring by faculty and administrators.

➢ ADMINISTRATIVE FUNCTIONS:

- Manage user accounts, including adding/removing users and setting permissions.

- Ensure system data integrity and security.

- Perform system maintenance and handle issues as they arise.

3.2. NON-FUNCTIONAL REQUIREMENT:

- **PERFORMANCE:**
  - Ensure team registration, topic selection, and status updates are completion within the time.

- **SCALABILITY:**
  - Design the system to efficiently handle an increasing number of teams, students, and project data.

- **RELIABILITY:**
  - Maintain 99.9% system uptime, with robust error recovery mechanisms in place.

- **SECURITY:**
  - Implement multi-factor authentication, encrypt sensitive data, and enforce role-based access control.

- **USABILITY:**
  - Provide an intuitive user interface for registration, topic selection, and status updates, ensuring accessibility compliance.
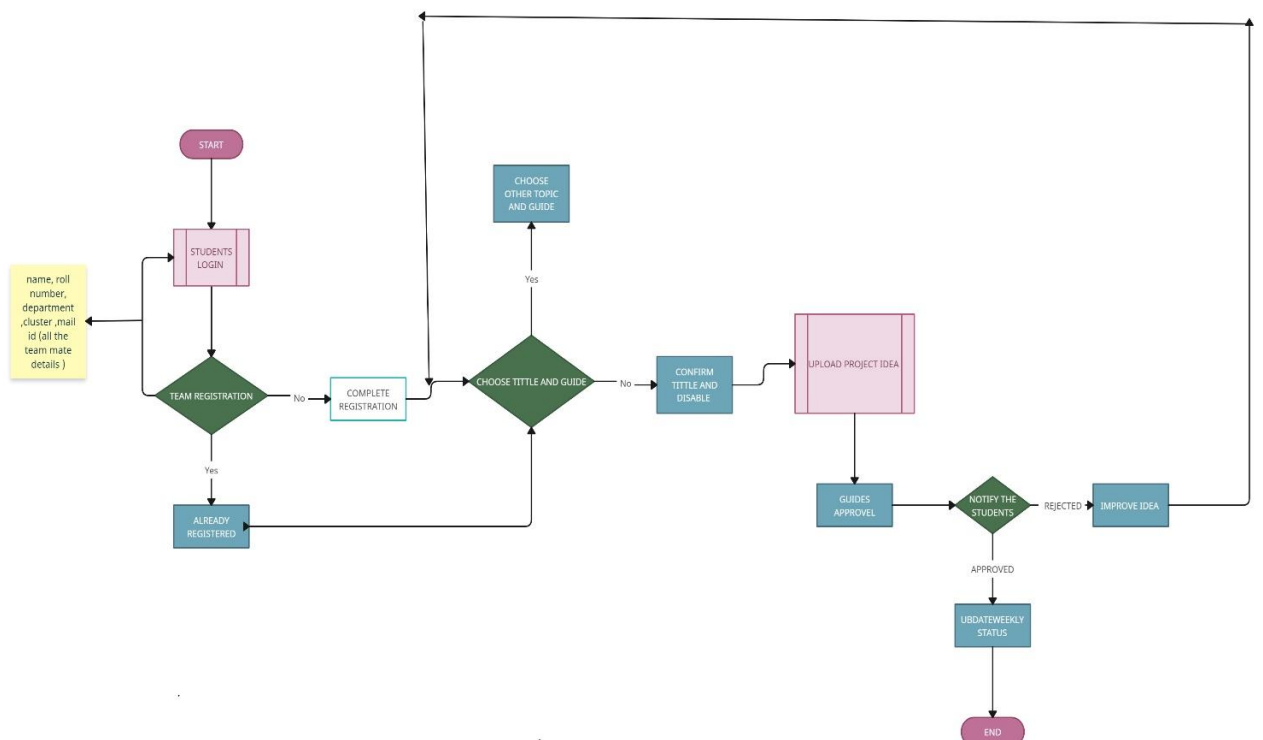
> ➢ MAINTAINABILITY:

- ▪ Adhere to best practices for code quality, with comprehensive documentation for system maintenance.
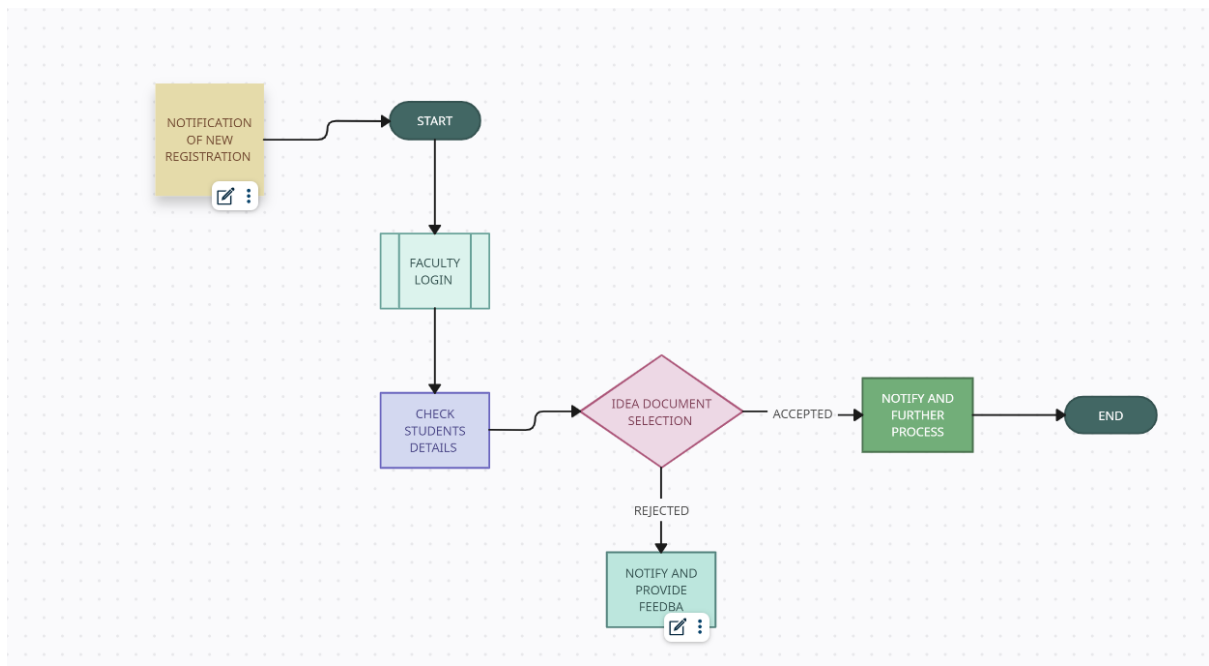
> ➢ BACKUP AND COMPATIBILITY:

- ▪ Implement automated daily backups and ensure the system is compatible with major web browsers and responsive on mobile devices.

4.FLOW CHART:

4.1 STUDENTS REQUIREMENTS:

4.2 FACULTYS REQUIREMENTS

4.3ADMINREQUIREMEN