Software Requirement Specification for Project Registration Portal

Name	Mounesh S
Roll no	7376222AD165
Seat no	128
Project ID	8
Problem Statement	Project registration Portal

1.Introduction

1.1. Purpose

The purpose of this document is to present a detailed description of the Project Registration portal. It will explain the purpose and features of the system, the interfaces of the system, what the system will do, the constraints under which it must operate and how the system will react to external stimuli.

1.2. Scope of the project

- The project aims to create a student project registration system where students can register their project titles, ensuring only one team is allocated to each title with precision down to a millisecond. Students will have a dashboard to view the approval status of their project title by the assigned guide. The system will have separate logins for students, admin, and staff.

2.System Overview

2.1. User:

1.Students:

In the student portal, students can register their project titles, ensuring that only one team is allocated per title to avoid duplications. The project titles are listed based on clusters, and at least one member of the team must belong to the corresponding cluster. Only the team leader can select the project title; other team members will not have the registration option visible. Once the team leader registers and selects a guide's name, all team members' dashboards will display the project title with the guide's name. After the guide approves the project, all team members' dashboards will be updated with the project title and guide's name.

2.Staff’s dashboard:

In the staff portal, staff members can see how many students have selected them as guides and can approve or reject projects. They have the authority to approve or reject the projects assigned to them. If a project is rejected, they must provide a reason, which will be displayed on the students' dashboards alongside the rejection notification. Additionally, each staff member can only guide up to four projects.

3.Admin’s dashboard:

Admin’s have the full authority to change the database. They can view all student’s details.

User Personas:

- **Student:** Requires a user-friendly platform for project registration and timely updates on project approval and guide allocation.

- **Faculty:** Needs efficient tools for managing project registrations, sending schedule updates, and accessing student profiles for guidance.
- **Admin Staff:** Responsible for database management, conflict resolution, and mail requests, ensuring system operation and communication with users.

Functional Requirements:

- **User Management:**
  - Students can register and login.
  - Admins have access control with an analytical dashboard and dedicated features.
- **Project Selection:**
  - Students need to select the projects title and get approval from guide.
- **Application Status:**
  - Students can view the current status of their application
  - If the application is rejected then the remarks is shown
  - Students can also see the logs of their applications
- **Admin Dashboard:**
  - Admins can view a list all students details.
  - Applications can be filtered by category (internal,external project).
  - Admins can approve or reject applications with suitable remarks.

Non-Functional Requirements:

● **Performance:** The system must respond to user actions within 2 seconds to ensure efficient usability and must handle a concurrent user load of at least 100 users without significant performance degradation.

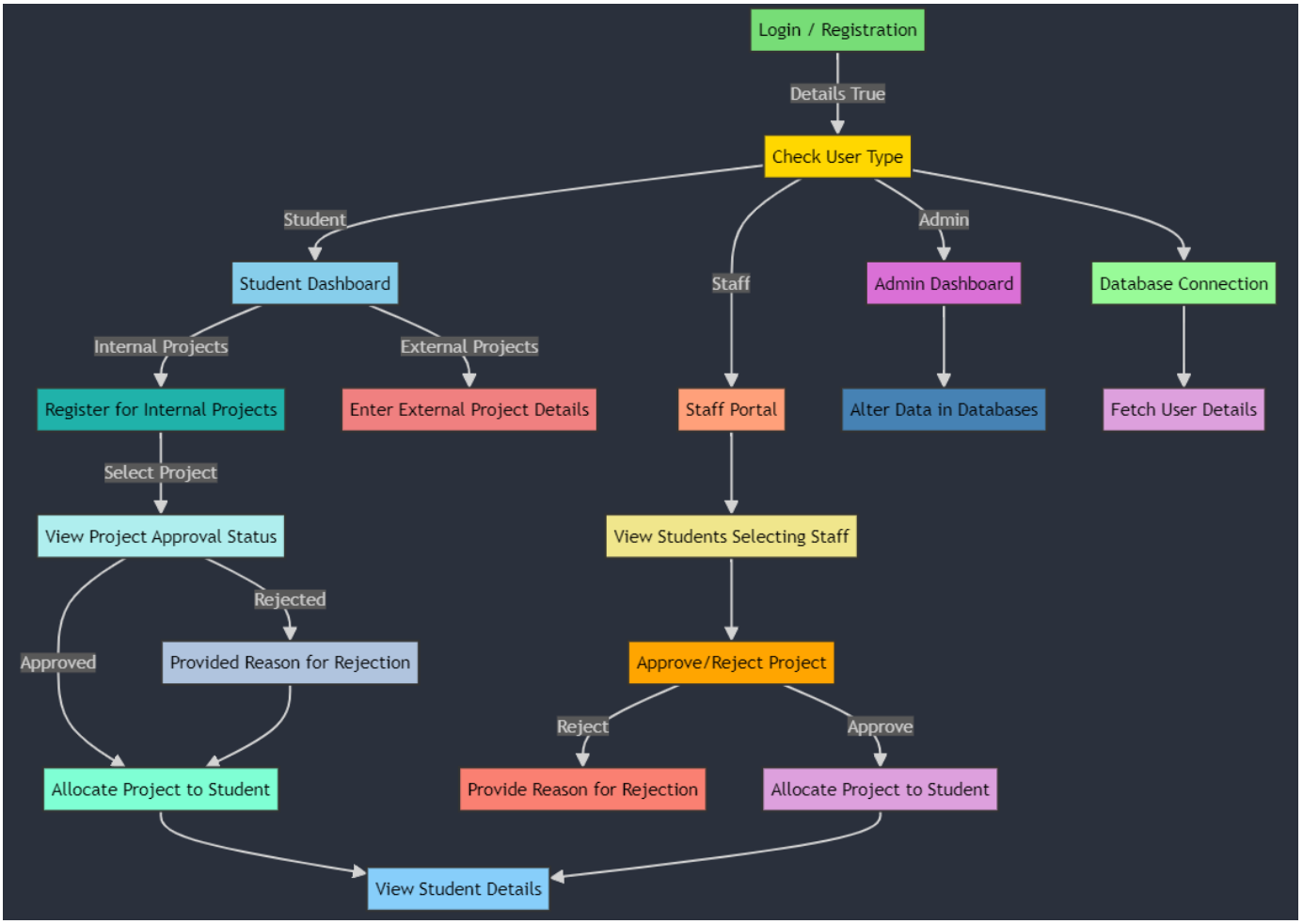
● **Security:** User data must be encrypted during transmission and storage, and access to sensitive functionalities should be restricted to authorized admin users through secure authentication mechanisms.

● **Usability:** The user interface should be intuitive and user-friendly, with clear and concise error messages provided to guide users in case of input errors or system failures.

● **Reliability:** The system should be available 24/7 with minimal downtime and should have a backup and recovery mechanism in place to prevent data loss in case of system failures or crashes.

● **Scalability:** The system should be designed to accommodate an increasing number of users and data volume over time, and it should be scalable to support additional features and functionalities as per future requirements.

Flow chart:


Login / Registration
Details True
Check User Type
Student
Staff
Admin
Student Dashboard
Admin Dashboard
Database Connection
Internal Projects
External Projects
Register for Internal Projects
Enter External Project Details
Staff Portal
Alter Data in Databases
Fetch User Details
Select Project
View Project Approval Status
View Students Selecting Staff
Rejected
Approved
Provided Reason for Rejection
Approve/Reject Project
Reject
Approve
Allocate Project to Student
Provide Reason for Rejection
Allocate Project to Student
View Student Details