STAGE 1

Software Requirement Specification for Internship Course Exemption Portal

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Project ID	16
Problem Statement	Internship course exemption

Stack: MERN

Front End	React (JS Library for building user interfaces)
Backend	Node.js with Express.js
Data Base	MongoDB (NOSQL Database)
API	Open API

1. **Introduction**

1.1. Purpose:

The purpose of this document is of present a detailed description of the Internship course exemption 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 Project:

- This software system will serve as a portal for the students to apply for an internship approval and claim credits once completed, enabling students to submit their internship report and receive their rewards. From an administrative perspective, this system will provide a comprehensive **analytical dashboard for reviewing the report**.
- Administrators have the ability to approve or reject report. Once a report is approved, students can claim the credit by appearing to the review. The system will calculate the number of days the internship has gone through. If this duration is less than 90 days, a warning will be displayed indicating that students cannot avail credit for internship if the duration is below 90 days.

2. System Overview:

2.1. Users:

1) **Students**:

They have the ability to create action plan and apply for the internship they are going to go through (Tracker) and also once completed they must submit the report to claim the credits. If the report is accepted the reviewer will create a slot for the review to examine the student

2) **Admins:**

Review submitted Tracker, approve or reject applications (with remarks). Create slot for the review and examine the student for eligible credits.

2.2. Features:

1. **Login and registration:**

Students can register for an account or login with their existing account

2. **Internship Application Submission:**

Students can input relevant details regarding their internship including company details and student's details. Upon completion, the application is submitted to the admin interface for review and further processing

3. **Application Status:**

Students can view the current status of their application and also see the history logs in the option Activity

4. **Applying for review:**

Student with approved internship report can book slot for their review with faculty members to avail credits.

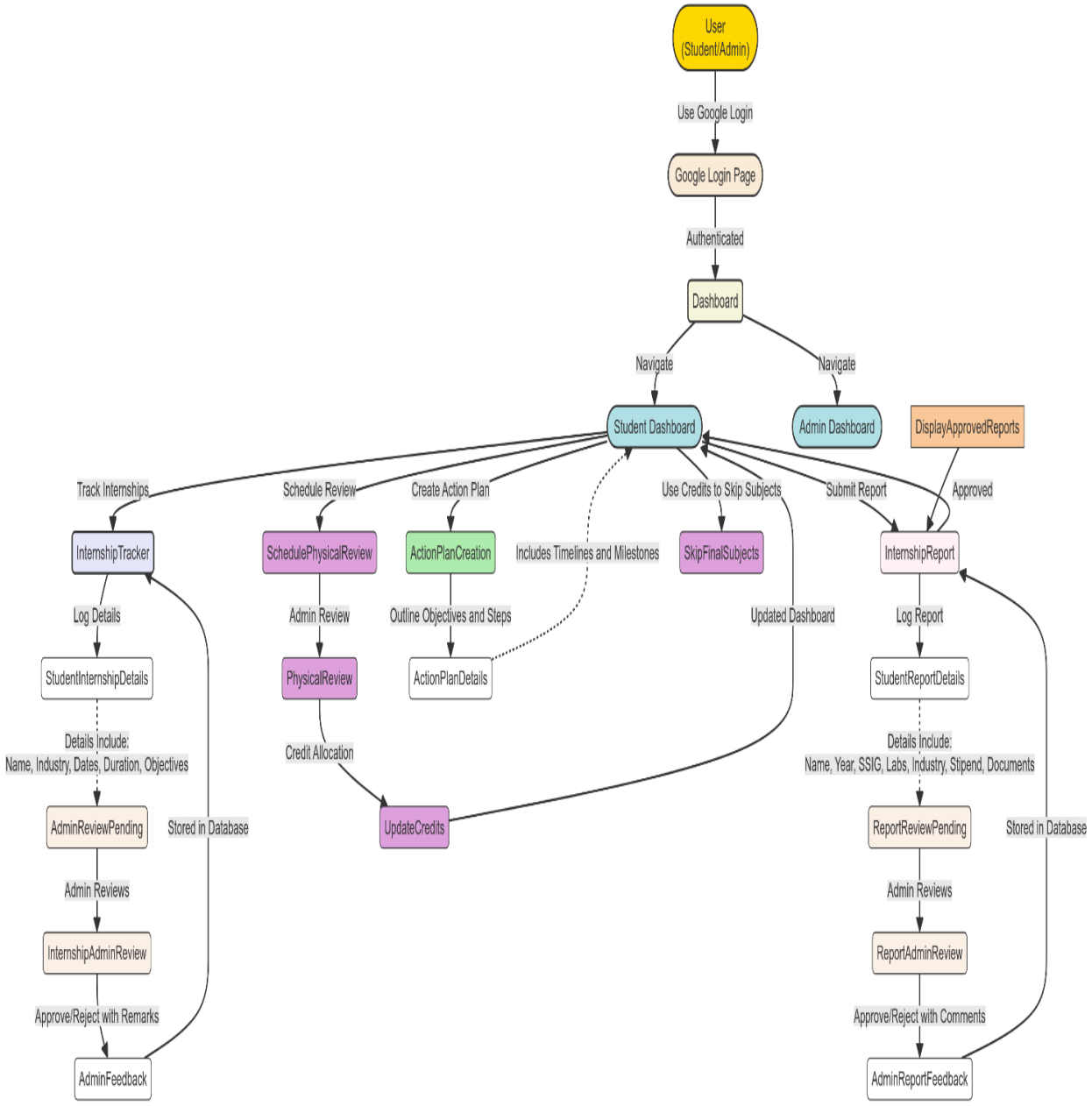
5. **Admin Access:**

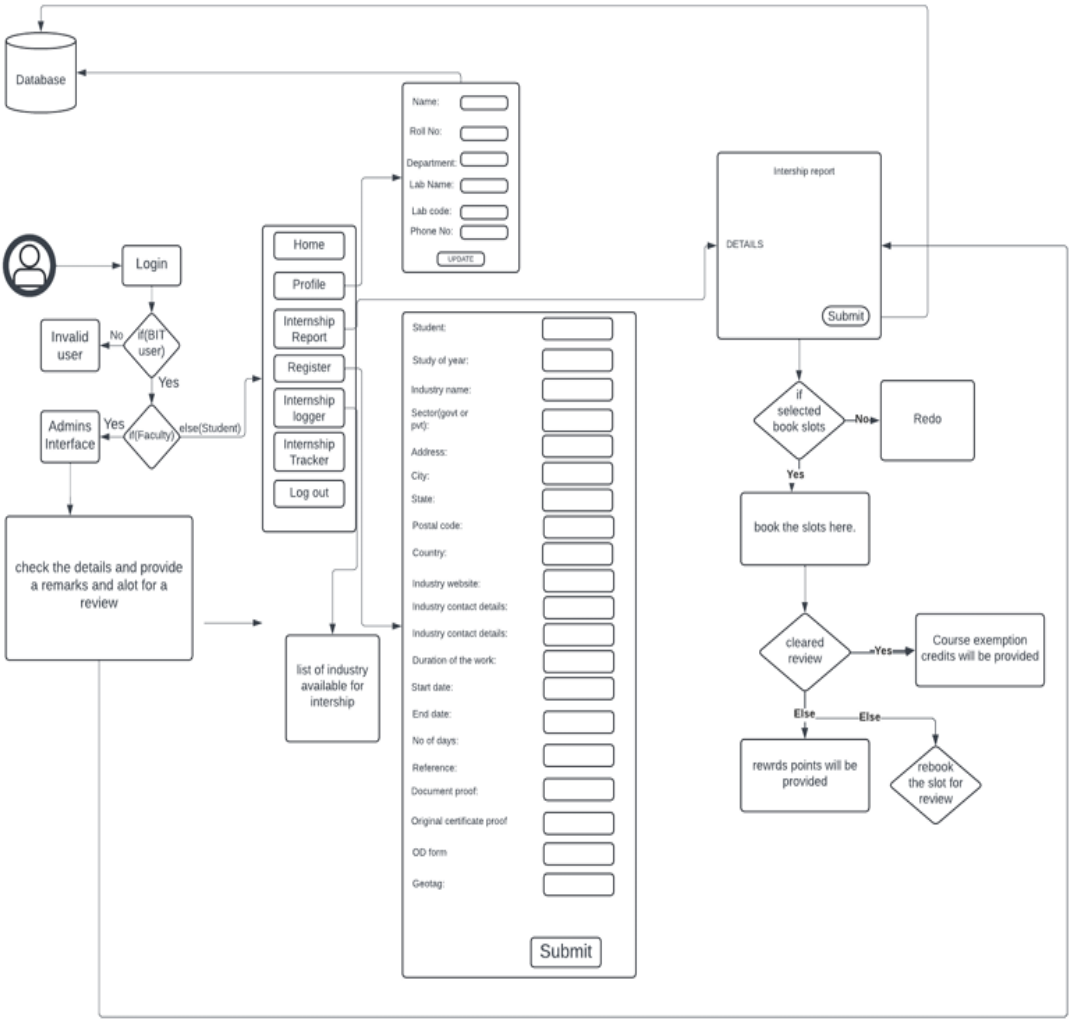
Admin can view all submitted Internship report in a category duration of days or company, view application details, approve or reject the application with suitable remarks, schedule meetings.

6. **Admin's Analytical Dashboard:**

Admin can view the number of applications by category, appointments request and also see the latest log of applications

FLOW CHART: User interface and Admin interface





3.1 Functional Requirements:

- **User Management:**
  - Students can register and login.
  - Admins have access control with an analytical dashboard and dedicated features.
- **Internship Application:**

- Students can submit applications with appropriate details
- Application form contains:
    - Name, SSIG number
    - Area of the Internship.
    - Internship category.
    - Internship domain.
    - Internship title.
    - Objective.
    - Explanation.
    - Company details
    - Duration
    - Proof

- **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
- **Appointment Scheduling (After Approval):**
    - Students with approved report can request appointments after completion.
- **Admin Dashboard:**
    - Admins can view a list of all submitted reports.
    - Applications can be filtered by category (duration and company).
    - Admins can view details of each application.
    - Admins can approve or reject applications with suitable remarks.
    - Admins can schedule meetings for accepted appointments.
- **Analytics Dashboard:**
    - Admin can view the number of applications by its category
    - Number of appointments is requested based on the category

3.2. 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.

Backend:

1. **Student entity**

name	String
email	String
password	Hash code
Roll no	String

2. **Internship Details**

Roll no	String

Details	Array of Objects

company	String (drop down)
address	String
Special lab	String
sector	String
Pdf Path	String
status	String
Created At	Date

3. Appointment Entity

Roll no	String
Internship appointment	Details [] in the internship entity