FULL STACK WORK FLOW

Stage -1

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Project ID	16
Module Name	Internship Course Exemption

TECHNICAL COMPONENTS:

COMPONENT	SPRING BOOT STACK(JAVA)
Backend	Java with Spring Boot
Frontend	Angular.js/React.js
Database	MySQL
API	Open API

1. ABOUT PROJECT:

1.1. Purpose:

The purpose of this document is to present a detailed description of the Internship Course Exemption. 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 Campus (BIT), enabling students to submit their internship form and receive their result (Approved or rejected). After completion students to submit their internship internship certificate and opt for interview. Based on their performance they can opt for course exemption or claim reward points. From an administrative perspective, this system will provide a comprehensive analytical dashboard for internship oversight from the students.

- Administrators (Faculty) have the ability to approve or reject internship. Once a internship is approved, students can schedule their internship and goes on with it. Then the internship is completed, Administrators (Faculty) have to schedule an review for the s t u d e n t s on the date available .Students can book their slot and and attend a review. Faculty have to select students for course exemption based on their Performance.

2. System Overview

2.1. Users:

Students: For the Internship Course Exemption applicants should have the ability to submit applications for their Internship details. These details include, work location, domain, working project , abstract, a detailed explanation of the Internship, and a list of the main components or modules required in the Internship. After completion students to submit their internship internship certificate and opt for interview. Based on their performance they can opt for course exemption or claim reward points.

Admins: Review submitted details, approve or reject applications (with remarks), manage appointments, schedule meetings, and access analytical dashboards for project.

2.2. Features:

1. Login and registration: Students can register for an account or login with their existing account.

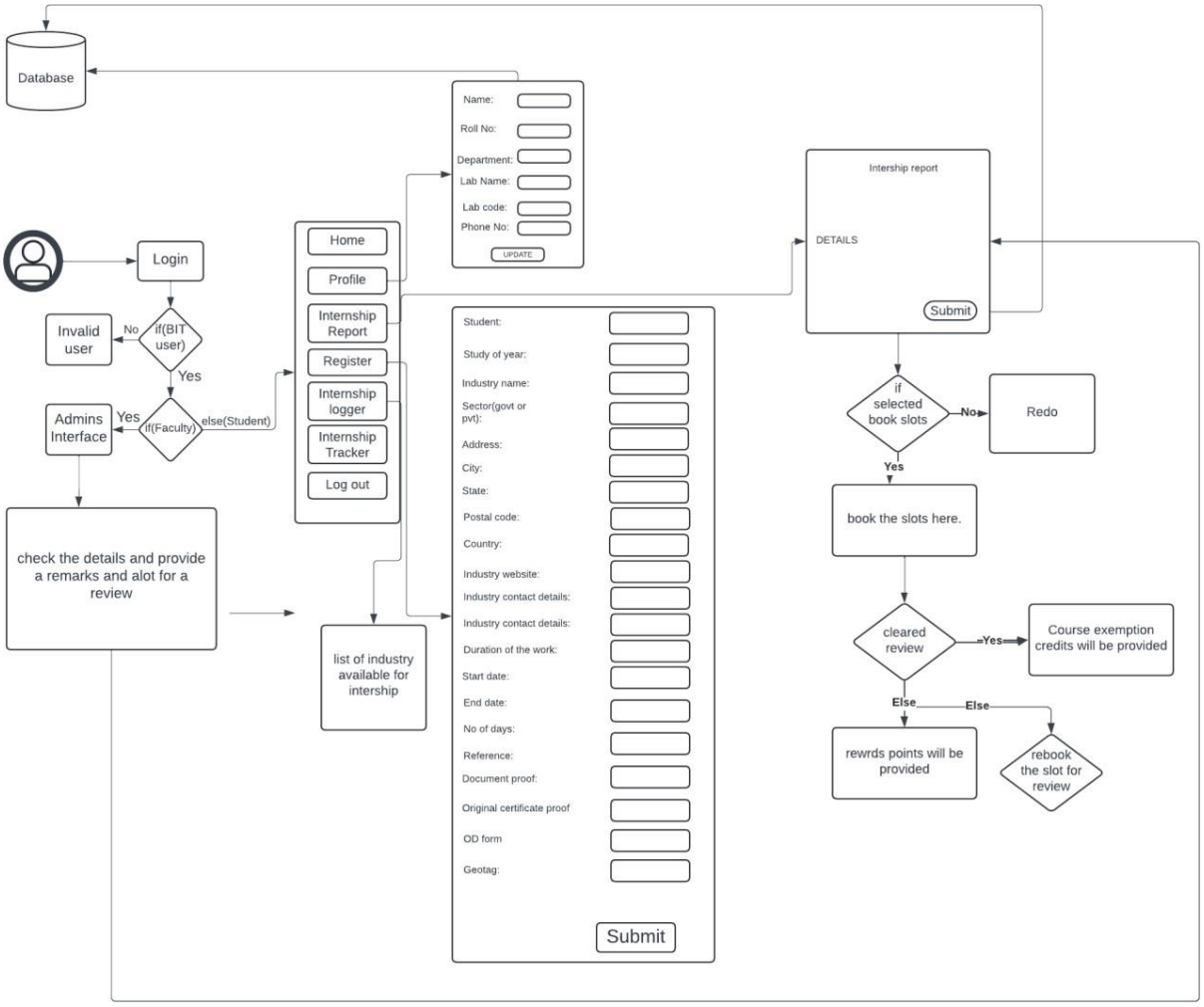
2. Application Submission: Students can input relevant details regarding their internship details for internship course exemption. This includes internship details, abstract, detailed explanation of the internship, objectives, domain, Upon completion, the submission is sent to the admin interface for review and further processing.

3. Application Status: Students can view the current status of their application and also see the history logs Activity.

4. Admin Access: Admin can view all submitted Internship applications in a category of either software or hardware, view application details, approve or reject the application with suitable remarks.

5. Admin's Analytical Dashboard: Admin can view the number of applications by category, appointments requested and also see the latest log of applications

Flow Chart: User interface and Admin interface



System Requirements Specification:

3.1 Functional Requirements:

- **User Management:**
  - Students can directly login through the google.
  - Admins have access control with an analytical dashboard and dedicated features.
- **Registration Application:**
  - Students can submit applications with appropriate details
  - Application form contains:
    - Area of the Internship.
    - Internship category.
    - Internship domain.
    - Internship title.
    - Objective.
    - Explanation.
    - Components.
    - Time plane.

- **Application Status:**

  ○ Students can view the current status of their application in the “Your Internship” Page, and also students can see the internship title, details and components list.
  ○ If the application is rejected then the remarks is shown.

- **Admin Dashboard:**

  ○ Admins can view a list of all submitted Intership applications.

  ○ Applications can be filtered by category (software, hardware).

  ○ Admins can view details of each application.

○ Admins can approve or reject applications with suitable remarks.

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.