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
Stay Ahead

NAME	KANIGASREE S
ROLL NUMBER	7376222IT163
SEAT NUMBER	103
PROJECT ID	23
PROBLEM STATEMENT	APPROVAL OF ONDUTY FOR THE STUDENTS

TECHNICAL COMPONENTS

COMPONENT	TECH STACK
Frontend	React
Backend	Spring Boot
Database	MySQL

1.INTRODUCTION:

1.1 Problem Statement:

Build a portal/app for approving the On-duty for our students. The condition to approve on-duty

1. Both academic and placement FA should be above 50%

2. The special lab incharge should approve the permission after verify event details.
3. Mentor has to provide permission after receiving acknowledgement from the parent.

1.2 Purpose:

The purpose of this project is to streamline and automate the process of approving on-duty requests for students. By creating a portal or app, we aim to ensure that students meet certain criteria before being granted permission. This includes maintaining satisfactory academic and placement performance, obtaining consent from both the mentor and the parent, and receiving approval from the special lab incharge after verifying event details. This system not only ensures that students fulfill their academic responsibilities but also fosters communication and accountability between students, mentors, parents, and faculty members, ultimately promoting a more organized and efficient on-duty approval process.

1.3 Scope Of Project:

- Develop a portal/app to automate and streamline student on-duty approval processes.
- Ensure compliance with academic performance criteria, parental consent, and event verification, fostering efficient communication and accountability among students, mentors, parents, and faculty.

2.SYSTEM OVERVIEW:

2.1. Users:

1. Students:

Students utilize the portal or app to submit On-Duty (OD) requests, providing all necessary details about the event. Students also monitor the status of their OD requests.

2. Admins:

- **Special Lab Incharge:**

  Special Lab Incharges serve as verification and approval authorities within the system. Their responsibilities include verifying event details provided by students, ensuring the authenticity and relevance of the event or engagement. Special Lab Incharges approve OD requests based on verified information and communicate approval status to students. They also maintain records of approved OD requests for future reference.

- **Mentors:**

  Mentors play the role of reviewers and approvers in the system. They are responsible for reviewing OD requests submitted by students, ensuring all required information is provided. Mentors verify parental acknowledgment and provide permission for OD requests. They also communicate approval status to students.

2.2. Features:

- **Login and Registration:**

  Students can easily register for an account or login using existing credentials, ensuring secure access to the system.

- **OD Application Submission:**

  Students submit OD requests, detailing reasons, dates, and times, with the option to upload event-related documents for verification.

- **Application Status:**

  Students track the progress of their OD requests and access detailed activity logs for comprehensive application history.

- **Special Lab Incharge Approval Process:**

  Admins review OD requests, categorizing them and taking appropriate actions such as approval or rejection.

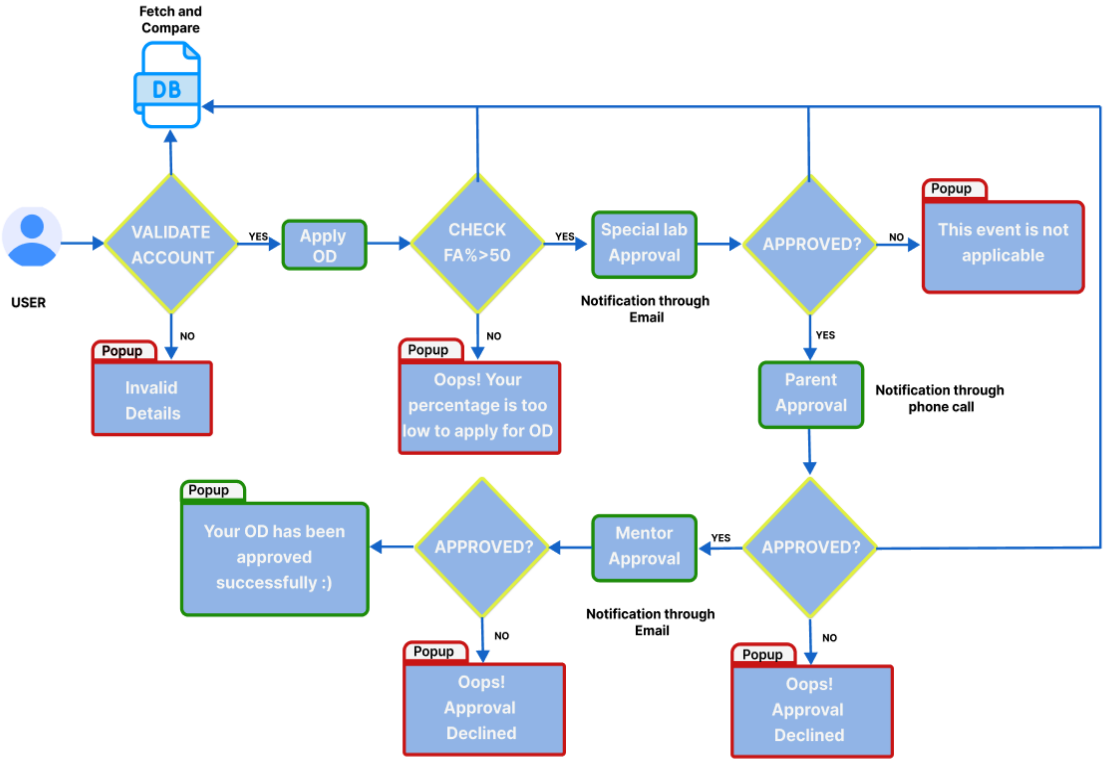
- **Mentor Approval Process:**

  Mentors review OD requests, obtaining parental acknowledgment before forwarding them for further approval.

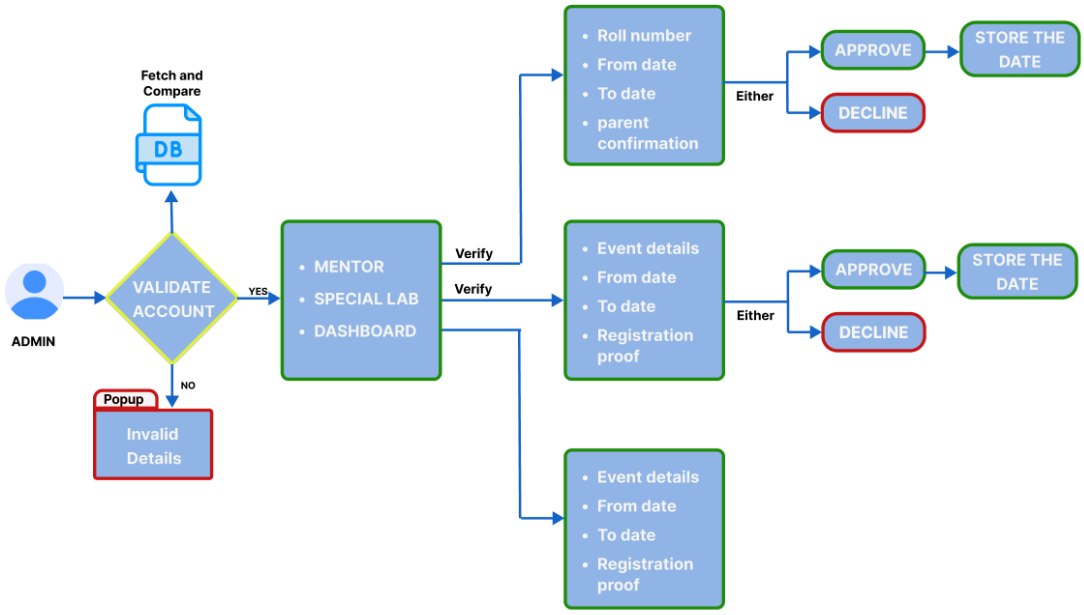
- **Analytical Dashboard:**

  The dashboard offers a comprehensive view of student on-duty trends, featuring daily and yearly analyses through intuitive charts. Administrators can swiftly identify peak days and seasonal fluctuations, aided by customizable filters for specific time frames and departments. This streamlined interface enables informed decision-making to optimize resource allocation and enhance student support initiatives effectively.

USER'S INTERFACE



ADMIN'S INTERFACE



3.1. FUNCTIONAL REQUIREMENTS:

- **User Roles:** Define roles for students, mentors, and special lab incharge.
- **Submission Process:** Students submit requests with event details and academic/placement FA scores.
- **Approval Workflow:** Mentors seek parent acknowledgment, then approve requests; special lab incharge verifies event details and approves.
- **Conditional Approval:** Requests approved only if academic and placement FA > 50%.
- **Notifications and Tracking:** Automated notifications and tracking system for transparency and compliance.

3.2.NON FUNCTIONAL REQUIREMENTS:

- **Security:** Implement robust data encryption and secure authentication to safeguard user data and prevent unauthorized access.
- **Performance:** Ensure fast response times and scalability to handle peak loads efficiently, enhancing user experience.
- **Reliability:** Maintain high availability with minimal downtime, supported by backup and recovery mechanisms to prevent data loss.
- **Usability:** Design an intuitive interface with clear navigation and accessibility features to cater to diverse user needs.
- **Compliance:** Adhere to data protection regulations and institutional policies, ensuring user privacy and institutional integrity.