

Lab / Classroom / Hall Booking System (App)

Requirements Elicitation

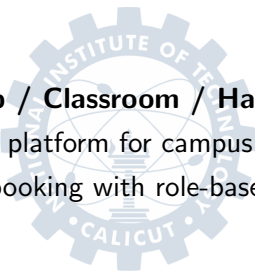
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Department of Computer Science and Engineering
National Institute of Technology Calicut

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Project Overview

- Development of a **Lab / Classroom / Hall Booking System**.
- Provides a centralized platform for campus space reservations.
- Ensures conflict-free booking with role-based access.

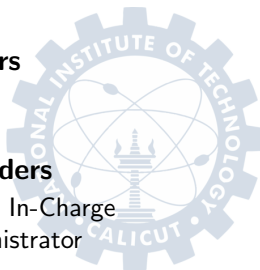


- **Primary Stakeholders**

- Students
- Faculty

- **Secondary Stakeholders**

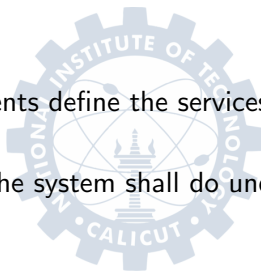
- Department / Lab In-Charge
- Application Administrator



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Functional Requirements

- Functional Requirements define the services and behavior of the system.
- They describe what the system shall do under specific conditions.



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User Authentication

- The system shall allow users to log in a or Register using official NITC email IDs.
- The system shall support Google-based authentication.
- The system shall provide a password recovery option.

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User Roles and Access Control

- The system shall support role-based access control.
- Users shall be classified as:
 - Student
 - Faculty
 - Lab In-Charge
 - Administrator
- System functionalities shall vary based on assigned roles.

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Schedule and Availability

- The system shall display a calendar-based booking schedule and Live status.
- Booking details shall include date, time, purpose, and status.
- Real-time availability shall be shown for upcoming days.
- Instructional hours and blocked slots shall not be bookable.

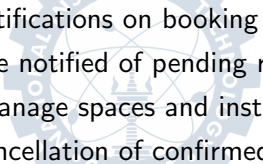
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Booking, Approval, and Allotment

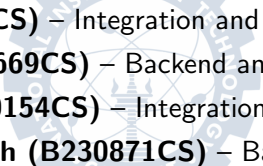
- Users shall be able to submit booking requests.
- The system shall prevent double booking of time slots.
- Lab In-Charge shall approve or reject booking requests.
- Faculty or student allotment shall be initiated upon approval.

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Notifications and Administration

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- Users shall receive notifications on booking status updates.
 - Lab In-Charge shall be notified of pending requests.
 - Administrator shall manage spaces and instructional hours.
 - Users may request cancellation of confirmed bookings.

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- **Ch. Teja (B230267CS)** – Integration and Testing
 - **K. AbhiRam (B230669CS)** – Backend and Frontend
 - **A. Somanath (B230154CS)** – Integration and Frontend
 - **B. Venkata Subbaiah (B230871CS)** – Backend and Testing

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The logo of NIT Calicut is a circular emblem. It features a gear-like outer ring with the text "NATIONAL INSTITUTE OF TECHNOLOGY" at the top and "CALICUT" at the bottom. Inside the ring is a stylized representation of a traditional oil lamp (diya) with a flame, set against a background of a globe with latitude and longitude lines.

Thank You

Questions and Discussion

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