

Lab / Classroom / Hall Booking System (App)

Requirements Elicitation

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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.



Stakeholders

- **Primary Stakeholders**

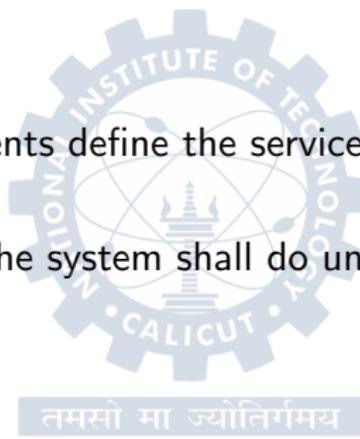
- Students
- Faculty

- **Secondary Stakeholders**

- Department / Lab In-Charge
- Application Administrator



Functional Requirements



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

User Authentication

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



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

- 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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Team Roles

- **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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Thank You

Questions and Discussion

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