

# 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.



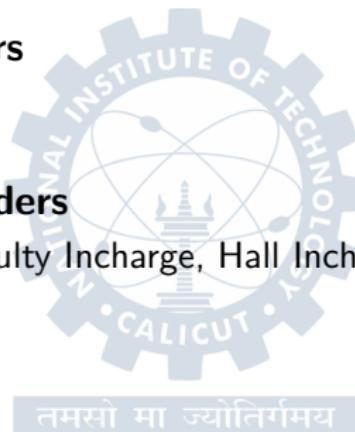
# Stakeholders

- **Primary Stakeholders**

- Students
- Faculty

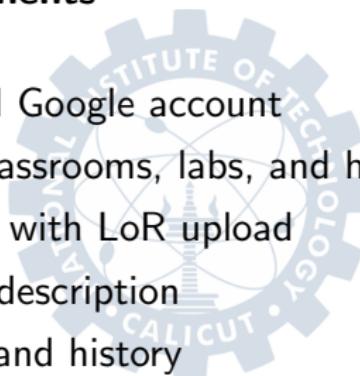
- **Secondary Stakeholders**

- Lab In-Charge, Faculty Incharge, Hall Incharge,
- HOD
- CSED office Staff
- App Administrator



## Functional Requirements

- Login via institutional Google account
- View availability of classrooms, labs, and halls
- Request lab bookings with LoR upload
- Provide purpose and description
- View booking status and history
- Cancellation Option
- Email Notifications



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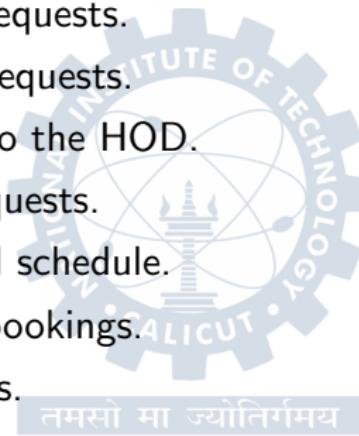
## Functional Requirements

- Login via institutional Google account
- View classroom, lab, and hall availability
- Request lab, hall bookings
- Cancellation of own bookings
- Receive email notifications
- Booking status and history



# Module-2 Hall In-charge

- 1. View all booking requests.
- 2. Approve booking requests.
- 3. Forward requests to the HOD.
- 4. Reject booking requests.
- 5. Edit the lab or hall schedule.
- 6. Modify approved bookings.
- 7. View student LORs.
- 8. Update hall details.



# Lab Admin (Student)

- 1. Automatically assigned after a booking is approved.
- 2. View details of the person who booked the slot.
- 3. Reassign the admin role to another student.
- 4. Scan QR codes to record attendance.
- 5. Upload photo proof of the session.
- 6. Report issues during the lab session.

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# Module-3 Staff In-Charge

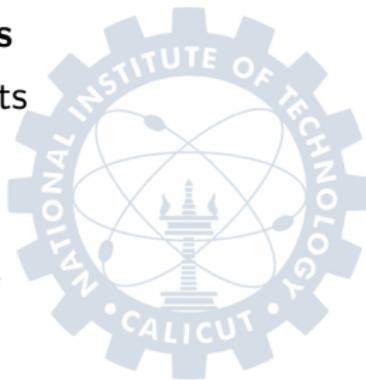
## Functional Requirements

- Accept/Reject requests
- Forward to Faculty
- Add remarks
- Edit lab schedule
- View status & history
- View LoR & proofs
- Direct approve (dept. requests)



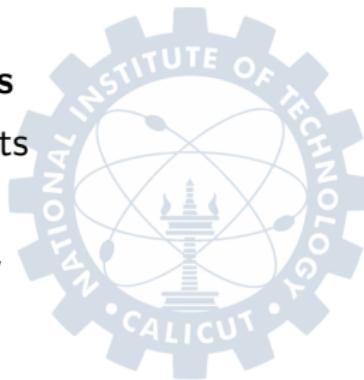
## Functional Requirements

- Accept/Reject requests
- Add remarks
- Edit schedule
- View status & history
- View LoR & proofs
- Forward to HOD



## Functional Requirements

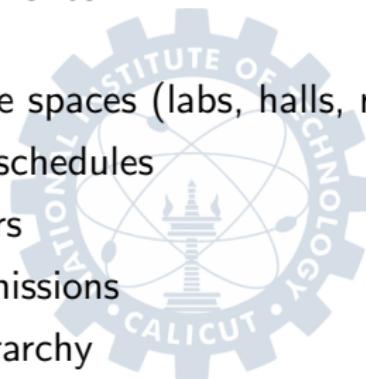
- Accept/Reject requests
- Add remarks
- View status & history
- View LoR & proofs



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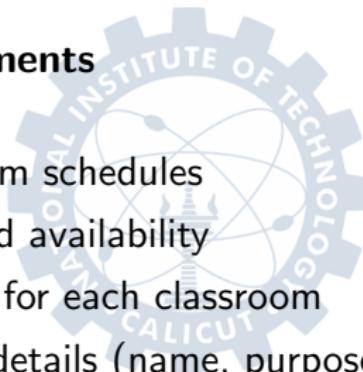
## Functional Requirements

- Add, edit, and remove spaces (labs, halls, rooms)
- Initialize and modify schedules
- Add and manage users
- Assign roles and permissions
- Manage approval hierarchy
- View all booking requests सो मा ज्योतिर्गमय
- Resolve booking conflicts and override when required



## Functional Requirements

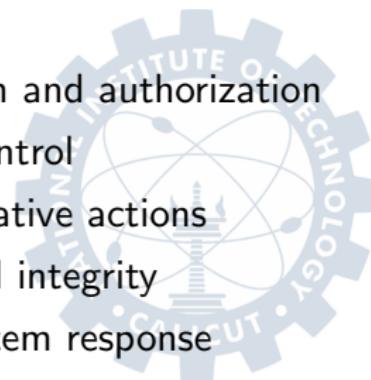
- View current classroom schedules
- View booked slots and availability
- View booking history for each classroom
- View booked person details (name, purpose, timings)



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# Non-Functional Requirements

- Secure authentication and authorization
- Role-based access control
- Logging of administrative actions
- Data consistency and integrity
- Reliable and fast system response



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