# Project idea

## Lab rescheduling management

- Requirements to Consider
- User Roles: Students, Subject coordinator, Lab Instructor
- Lab Details: Lab ID, Lab Name, Location, availability
- Rescheduling:
  - Request rescheduling of lab sessions
  - Submit Approval letter by faculty
  - Subject coordinator forward to Lab Instructor
  - Notification to students
- Notification System: Email notifications for approved/rejected reschedules
- Reporting & Logs: Track lab usage and reschedule history

#### **Step 1: Lab Schedule Creation**

- Subject coordinator set the initial lab schedule.
- Lab details and time slots are stored in the Lab\_Schedule Table.

#### **Step 2: Student Reschedule Request**

A student submits a request to reschedule their lab session.

#### **Step 3: Approval Process**

- Subject coordinator reviews the request and letter by faculty.
- If approved, coordinator forward to Lab Instructor

#### **Step 4: Notification Update**

Students and coordinator receive an email with the rescheduled schedule.

#### **Step 5: Lab Session Execution**

- Students attend the lab at the newly scheduled time.
- Attendance is recorded in the Attendance Table.

## Laboratory Booking system

### Requirements to Consider

- User Roles: Students, Lectures In charge, Lab TO, Instructors
- Lab Information: Lab ID, Type, Availability, capacity
- Booking Process:
  - Allow Instructors to book labs
- Lab Equipment Availability: Ensure booked labs have required equipment.
- Usage Logs & Reports: Maintain historical data for analysis

#### **Step 1: Lab Registration**

- The system stores lab details in the Lab Table.
- Lab availability is updated regularly.

#### **Step 2: Instructors Booking Request**

- The user selects a lab and submits a booking request.
- The system checks the **Lab\_Schedule Table** for availability.

#### **Step 3: Confirmation & Approval**

- · If available, the system confirms the booking.
- Booking details are recorded in the Lab Bookings Table.

#### Step 4: Lab Usage & Equipment Handling

- On the booking date, students access the lab.
- Equipment details are logged in the Lab\_Equipment Table.

#### **Step 5: Reporting & Logs**

• The system generates reports on lab usage.

## Hostel management system

### **Requirements to Consider**

- User Roles: Students, Hostel Wardens, Admins
- Room Allocation:
  - Track available and occupied rooms
  - Assign rooms based on preferences (single/double, AC/non-AC)
- Student Details Management: Name, ID, Room Number, Duration of Stay
- Fee Management: Monthly rent, payment tracking, penalty for late payments
- Visitor Tracking: Logs visitors entering/exiting hostel
- Complaint & Maintenance Requests: Allow students to report issues (plumbing, electricity, etc.)

#### **Step 1: Student Enrollment**

- A new student applies for hostel accommodation.
- Their details are stored in the Students Table.

#### **Step 2: Room Assignment**

- The system checks the Rooms Table for availability.
- If space is available, the student is assigned a room.
- The occupied\_count field in the Rooms Table is updated.

#### **Step 3: Fee Payment & Registration**

- The student pays hostel fees.
- Payment details are recorded in the Payments Table.

#### **Step 4: Visitor & Security Management**

- Visitors sign in and out at the hostel entrance.
- The system logs entries in the **Visitor\_Log Table**.

## **Step 5: Warden Assignment**

The warden manages hostel

## **Step 6: Reporting & Room Monitoring**

• The warden/admin can view student details and room occupancy.

## **Step 7: Student Check-Out**

- A student leaves the hostel.
- Their record is deleted from the **Students Table**.
- The occupied\_count in the Rooms Table is reduced.

## Scholarship management system

### Requirements to Consider

- **User Roles:** Students, Scholarship Coordinator, lecturers, scholarship providers
- Scholarship Database: Name, Eligibility Criteria, Deadline, Amount
- Application Process:
  - Allow students to apply for multiple scholarships
  - Upload necessary documents (ID, personal details, financial proof, family details)
- Application Review & Approval:
  - Verification process by committee
  - Adding points to students according to details and eligibility
  - Shortlisting based on eligibility
- Fund Disbursement: Track scholarship payments and transactions
- Notification System: Notify students about application status
- Add new scholarship: Add new scholarship and pending students as per priority

### **Step 1: Scholarship Registration**

- The university creates scholarship programs.
- Details are stored in the Scholarships Table.

## **Step 2: Student Application Submission**

- Students submit applications with required documents.
- Their details are stored in the system.

## **Step 3: Eligibility Verification**

- The system checks the **Eligibility Criteria**.
- Applications meeting the criteria are shortlisted.

## **Step 4: Committee Review & Approval**

- The scholarship committee reviews applications.
- Approved applications are updated in the Scholarships\_Awarded
  Table.

## **Step 5: Scholarship Fund Disbursement**

- Approved students receive funds in their accounts.
- Payment transactions are recorded in the Scholarship\_Payments
  Table.

## **Step 6: Reporting**

• The system tracks students and payments history.