



Project Proposal

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Section: 02

Submitted To

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1. Project Title

Hostel Management System

2. Introduction

Managing hostel accommodations for students at the University of Liberal Arts Bangladesh (ULAB) is a critical challenge. As there is no hostel of our own, many students struggle to find suitable rooms. This project aims to develop a ULAB Hostel Management System (UHMS) that fulfills specific needs of ULAB students, ensuring a seamless and organized hostel experience. The system will provide an automated platform for students to book rooms, track fee payments, and allow admins to efficiently manage hostel operations.

4. Problem Statement

Managing hostel rooms, student details, and fees manually is inefficient, prone to errors, and time-consuming. Hostel managers face difficulties in tracking room availability, student bookings, and fee payments, leading to operational inefficiencies.

5. Objectives

1. Enable students to register and book hostel rooms online.
2. Allow admins to manage room allocations and student fees.
3. Automate room availability updates to ensure real-time accuracy.
4. Track fee payments and outstanding balances.
5. House owners can register and upload flat descriptions and images for rent.
6. Provide detailed hostel information, including amenities, costs, and availability, specific to ULAB students.
7. Ensure a secure and scalable system to manage data effectively.

6. Proposed Solution

The ULAB Hostel Management System will be a web-based application designed to meet the specific needs of ULAB students.

Technology Stack:

- Frontend: HTML, CSS, javascript
- Backend: PHP
- Database: MySQL
- Deployment: Web hosting service

Core Features:

1. Student & landlord Registration & Authentication:
 - ULAB students can create accounts and log in securely.
 - landlords can create accounts and login to post for a rent.
2. Room Booking System:
 - Students can view available hostel rooms and book them.
 - Admins can manually assign rooms if needed.
3. Fee Management System:
 - Students can check their fee details and pay online.
 - Admins can track outstanding payments.
4. Admin Dashboard:
 - Admins can approve/reject bookings, track payments, and manage student records.
5. Real-time Updates:
 - Automatic status updates on room availability and fee payments.
6. Feedback System:
 - Students can rate hostels and provide feedback for future improvements.

7. Methodology

The project will follow the Agile development methodology, allowing incremental feature development and regular user feedback.

System Architecture:

- Client-Server Model:
 - Frontend: User-friendly web interface for ULAB students, landlords and admins.
 - Backend: Secure database and processing logic.
 - Database: Stores student data, room availability, fee records, and booking history.

Development Phases:

1. Requirement Analysis: Conduct surveys and interviews with ULAB students.
2. System Design: Create UI mockups and database schema.
3. Implementation: Develop frontend and backend components.
4. Testing: Perform unit, integration, and user acceptance testing.
5. Deployment & Maintenance: Host the system and ensure continuous updates

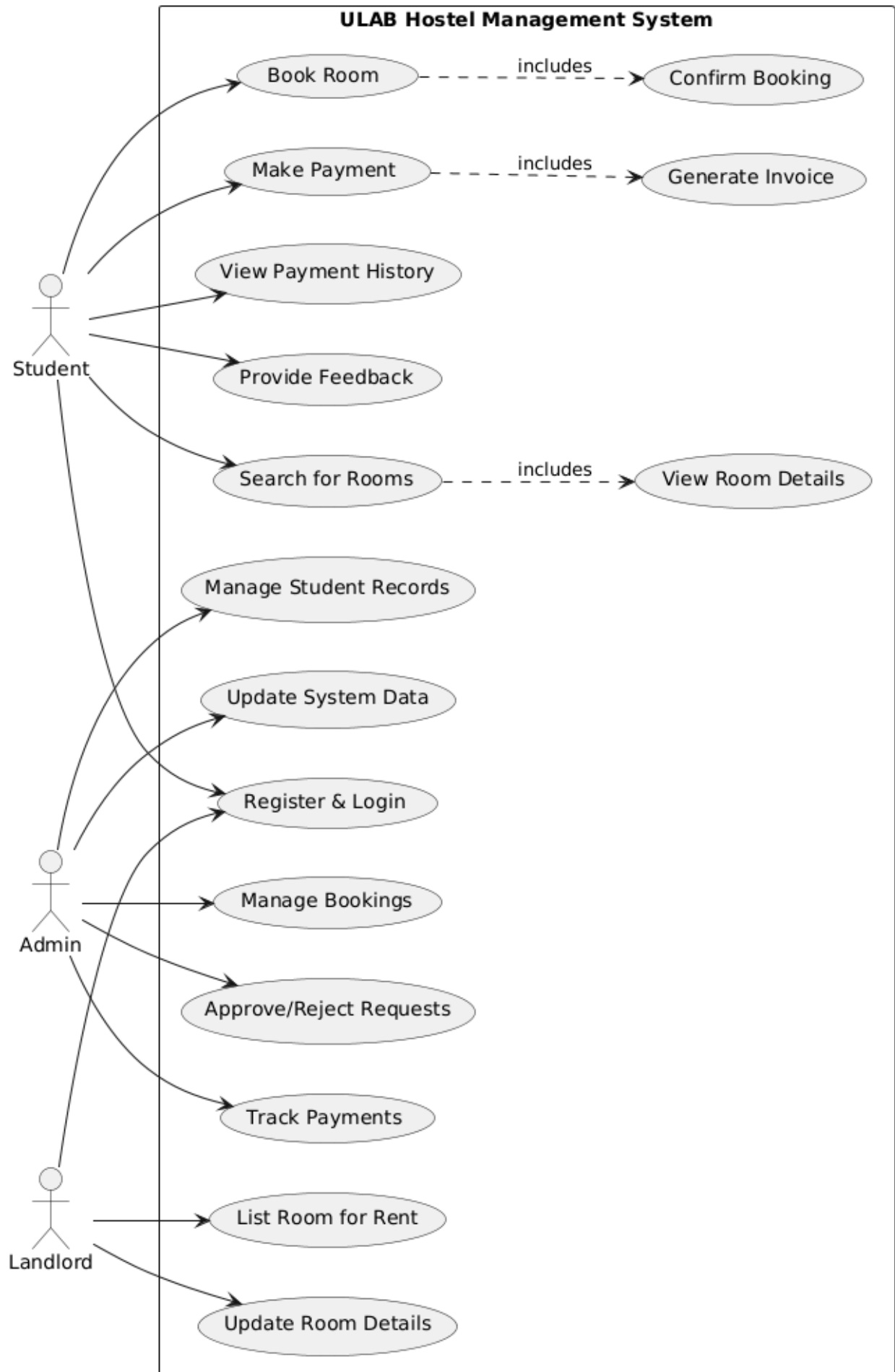
8. Tools & Resources Needed

- Development Tools: VS Code, XAMPP
- Hosting & Deployment: Apache, MySQL server
- User Feedback Tools: Google Forms for surveys

9. Expected Outcomes

The final product will provide an efficient, automated system for managing hostel rooms and student information. It will simplify room allocations and fee tracking, resulting in improved operational efficiency.

10. Use Case Diagram



11. Questionnaire

Personal Information:

1. **Name:** _____
2. **Are you**
 - ☐ student
 - ☐ teacher
3. **Gender:**
 - ☐ Male
 - ☐ Female
4. **Current Year of Study:**
 - ☐ 1st Year
 - ☐ 2nd Year
 - ☐ 3rd Year
 - ☐ 4th Year

Hostel & Accommodation Experience:

5. Do you currently live in a hostel?

- ☐ Yes
- ☐ No

6.If **No**, what is your current accommodation arrangement?

- ☐ Renting a flat
- ☐ Living with family
- ☐ Other (please specify) _____

7.What challenges do you face in finding hostel accommodations? (Check all that apply)

- ☐ High cost of rent
- ☐ Lack of availability
- ☐ Difficulty in contacting landlords

- No proper hostel management system
- Other (please specify) _____

System Features & Preferences:

8.How would you prefer to book a hostel room?

- Online through a management system
- Direct contact with landlords
- Other (please specify) _____

9.Which features would be most useful in a **Hostel Management System**? (Select all that apply)

- Online room booking
- Fee payment tracking
- Room availability updates
- Feedback and rating system
- Contacting landlords directly through the platform
- Other (please specify) _____

10.Would you be willing to pay hostel rent through an online system?

- Yes
- No

Final Feedback:

11.Do you think an online **Hostel Management System** would make finding hostels easier?

- Yes
- No

12.concerns for online payment ?

Ans:

12.Any additional suggestions or feedback:

Ans: _____