



Department of Computer Science and Engineering  
Program: Bachelor of Science in Computer Science and Engineering

CSE 3224  
Information System Design & Software Engineering Lab

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# **Ghor-Bhubon**

**Report: 3**  
**Lab Section: A1, Group No: 02**

Monday, 17 February 2025

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# Introduction

Ghor-Bhubon is a property rental system designed to simplify the rental process for property owners and tenants. It incorporates key features such as property listing, verification, payment processing, and search filtering, making renting more efficient and secure. Traditional rental methods can be time-consuming and complex. Ghor-Bhubon automates key processes, ensuring easy property discovery, secure transactions, and verified listings. Additionally, real-time notifications and a user-friendly interface enhance user engagement and overall satisfaction. This system modernizes property rental management by reducing manual efforts, improving security, and streamlining transactions for a hassle-free experience.

## Cost-Benefit Analysis

### Costs

- **Development Costs:** Includes resources needed for backend and frontend development.
- **Hosting & Maintenance:** Server and database hosting expenses.
- **Security & Compliance:** Ensuring data encryption and regulatory compliance.
- **Training & Support:** Educating users and maintaining the system.

### Benefits

- **Time Efficiency:** Automating property management and rental processes.
- **Scalability:** Easily expandable for more users and features.
- **User Convenience:** Online payments, verification, and a robust search system.
- **Competitive Edge:** Unique features like Google Maps integration and real-time notifications.

# Use Case Diagram

## Actors:

- **Property Owner**
- **Tenant/User**
- **Administrator**

## Use Cases:

- **Property Listing** (Owner uploads details)
- **Search & Filter Properties** (User searches for properties)
- **Book & Make Payment** (User books a property and pays online)
- **Property Verification** (Admin validates property details)
- **User Profile Management** (Users edit personal information)

# Scenario Descriptions

## 1. Register New Account

- **Priority:** High
- **Actors:** Unregistered User
- **Prerequisites:** None
- **Description:** User creates a new account with email verification.

## 2. Login

- **Priority:** High
- **Actors:** Registered User
- **Prerequisites:** Valid registered account
- **Description:** User authenticates into the system.

## 3. Edit Profile

- **Priority:** Medium

- **Actors:** Registered User
- **Prerequisites:** User must be logged in
- **Description:** User can update personal information and contact details.

#### 4. Property Listing

- **Priority:** High
- **Actors:** Property Owner
- **Prerequisites:** User must be logged in as an owner
- **Description:** Property owner uploads and manages property details.

#### 5. Search & Filter Properties

- **Priority:** High
- **Actors:** Tenant/User
- **Prerequisites:** None
- **Description:** User searches for available properties using filters like price, location, and amenities.

#### 6. Rent & Payment

- **Priority:** High
- **Actors:** Tenant/User
- **Prerequisites:** User must be logged in and have payment details set up
- **Description:** User selects a property, reviews details, makes a payment, and receives confirmation.

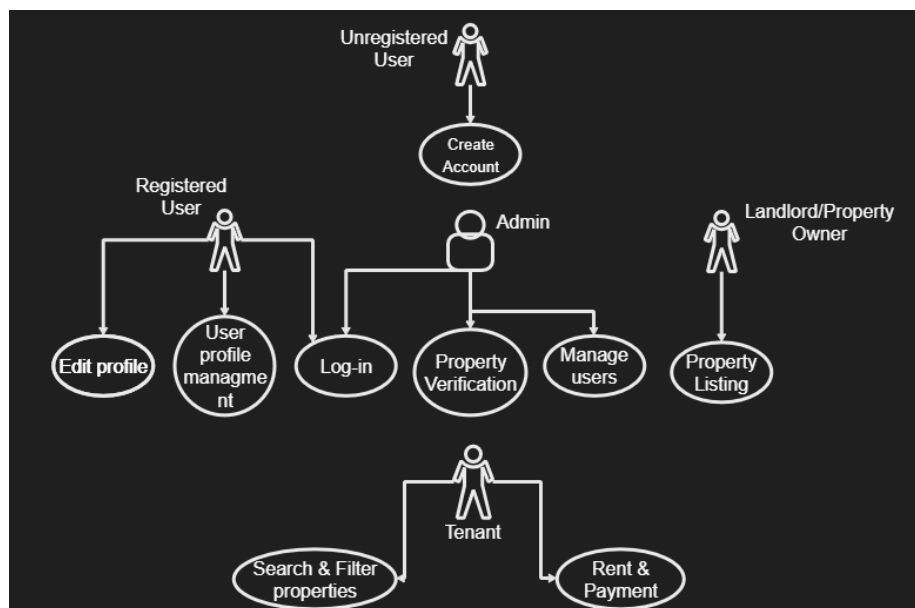
#### 7. Property Verification

- **Priority:** High
- **Actors:** Administrator
- **Prerequisites:** Property must be listed by an owner
- **Description:** Admin verifies property details before approving the listing.

## 8. User Profile Management

- **Priority:** Medium
- **Actors:** All Users
- **Prerequisites:** User must be logged in
- **Description:** Users can edit their personal profiles, update contact information, and manage settings.

### Use Case Diagram:



## Conclusion

Ghor-Bhubon is a comprehensive property rental system that streamlines the renting process for users and property owners. The integration of real-time updates, secure payment methods, and robust search filters enhances the efficiency and user-friendliness of the platform. While challenges exist in terms of data security, legal compliance, and system complexity, our team has implemented effective solutions to mitigate these risks. With continuous improvements and user feedback, Ghor-Bhubon has the potential to be a market-leading property rental solution.

