Project Name: NextHome
Branch DAC Aug-2025

Documentation On ***"NextHome"***
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1. Introduction:

1.1 Document Purpose:

This document describes the complete Software Requirement Specification (SRS) for the project "Nexthome – PG & Hostel Rental System."
The purpose of this document is to clearly define the business requirements, system scope, functional requirements, non-functional requirements, database structure, and overall system architecture of the application.

1.2 Project Background:

In today's fast-moving environment, students and working professionals frequently migrate to different cities for education and employment opportunities. One of the biggest challenges they face is finding safe, affordable, and suitable PG (Paying Guest) or hostel accommodation.
Currently, most PG accommodations are managed manually. Owners maintain records in notebooks or spreadsheets, and booking requests are handled through phone calls or physical visits.

1.3 Aim & Objectives:

The main aim of Nexthome is to develop a secure, user-friendly, and centralized web application that connects PG Owners and Tenants through an efficient digital platform.

Objectives:

1. To provide an easy and secure registration system for tenants and PG owners.
2. To allow PG owners to digitally manage:
   - PG listings
   - Room availability
   - Pricing
   - Facilities
   - Booking requests
3. To enable tenants to:
   - Search PGs based on location, rent, and facilities
   - View detailed room information
   - Send booking requests
   - Make online payments
   - Submit complaints
   - Give ratings and feedback
4. To provide an Admin panel for:
   - Approving PG owner registrations
   - Monitoring bookings
   - Viewing complaints
5. To improve transparency and reduce manual paperwork in PG management.

2. Business Requirements Overview:

Nexthome is a web-based rental management system that connects tenants and PG owners across multiple cities through a centralized platform. It supports three types of users: Admin, PG Owner, and Tenant, with secure authentication and role-based access control.

PG Owners can register, manage PG details, update rooms and facilities, and handle booking requests. Tenants can search PGs based on location and rent, send booking requests, make secure payments, and provide ratings and feedback.

The Admin supervises the system by approving owner registrations, monitoring bookings, and handling complaints. The platform ensures real-time room availability, maintains booking and payment records, and acts as a mediator for smooth communication between tenants and owners.

3. Functional Requirements Overview:

The Nexthome system consists of three major modules:

1. Admin Module
2. PG Owner Module
3. Tenant Module

3.1 Admin Module

The Admin is the supervisory authority of the system and is responsible for managing and monitoring the overall platform.

Functionalities:

1. Login Process
2. Admin must enter valid credentials to access the system.
3. Approve / Reject Owner Registration
4. Admin verifies the details submitted by PG Owners and approves or rejects the request.
5. View Feedback
6. Admin can analyze ratings.
7. Admin can monitor room availability across the platform.

3.2 Owner Module

PG Owner is responsible for listing and managing PG properties.

Functionalities:

1. Registration Request
2. Login
3. After approval, owner can log in using credentials.
4. Add / Update PG Details
5. Add Rooms and Facilities
6. Owner can specify:
   - Room type (Single/Double/Triple)
   - Number of rooms
   - Price per room
   - Facilities (WiFi, AC, Food, Parking, etc.)
7. View Booking Requests
8. Owner can check tenant details and booking requests.
9. Owner can monitor reviews and ratings to improve service quality.

3.3 Tenants Module

- Registration & Login – Tenant creates an account using personal details and logs in to access the dashboard.
- Search PG/Room – Tenant can search PGs based on location, rent range, room type, and available facilities.
- View Room Details – Tenant can check PG information, rent, room type, facilities, photos, and rules before booking.
- Send Booking Request – Tenant can send a booking request to the PG owner for a selected room.

4. Non-Functional Requirement:

Non-functional requirements define the quality standards and operational constraints of the Nexthome system. The platform must deliver high performance by supporting multiple concurrent users and ensuring fast search results and real-time booking confirmations. Strong security measures such as encrypted passwords, role-based access control, secure payment integration, and protection against common web attacks must be implemented. The system should use HTTPS and proper session management for safe data transmission.The application must provide a user-friendly, responsive, and mobile-compatible interface with simple navigation and clear validation messages.

5. Use-Case Diagram

5.1 Admin:

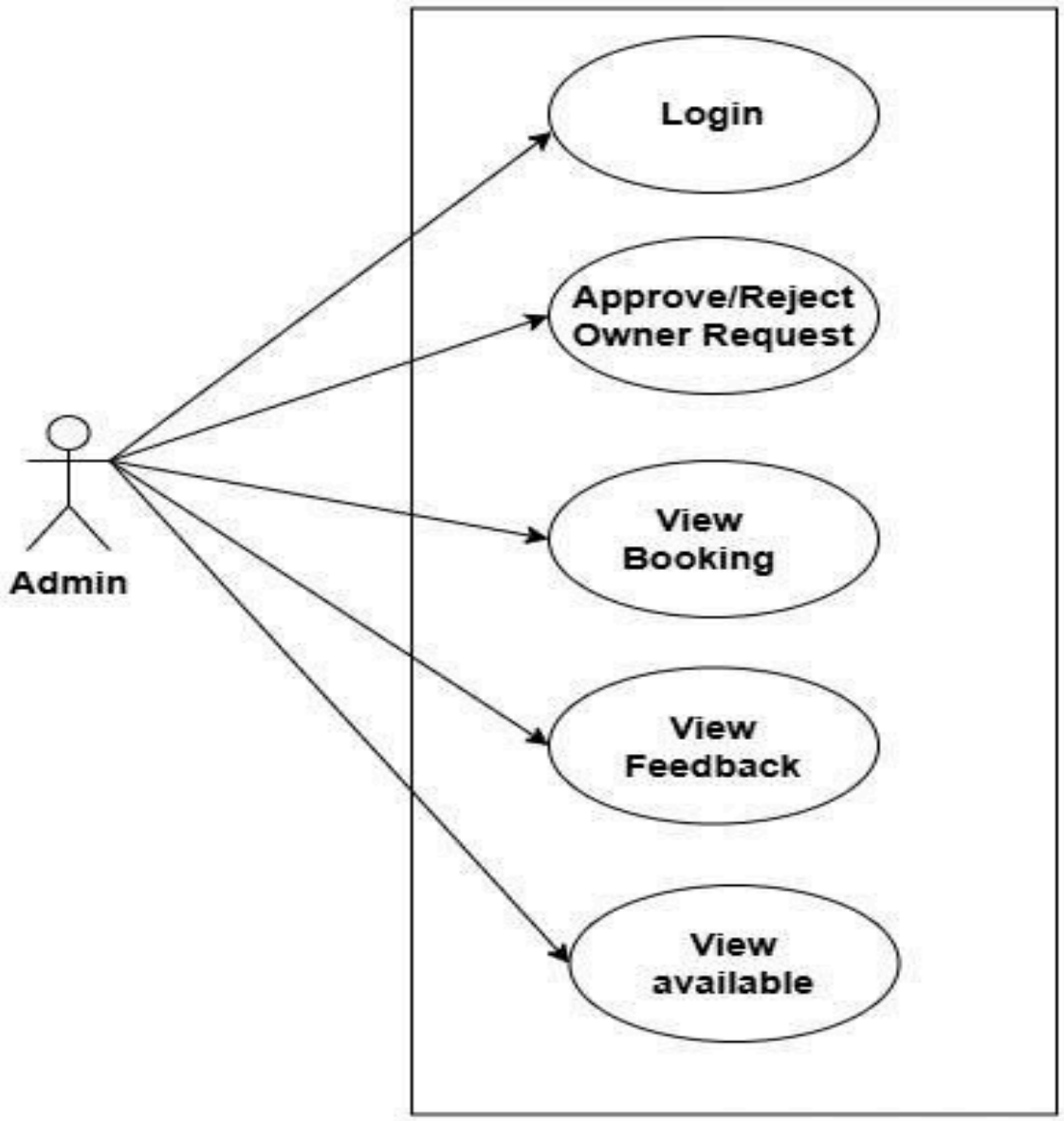


Fig. Use-Case Diagram for Admin

5.2 Owner:

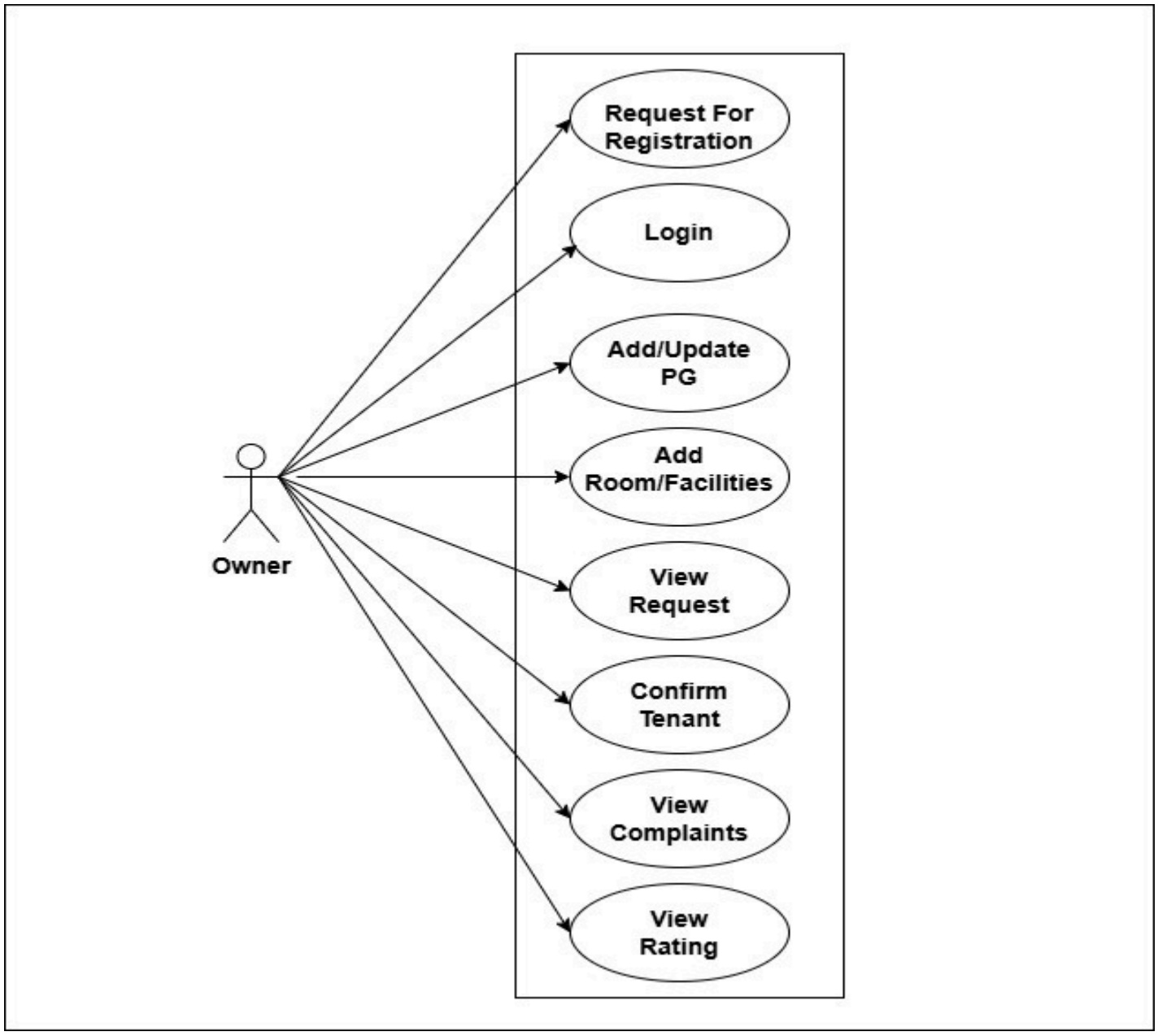


Fig. Use-Case Diagram for Owner

5.3 : Tenant :

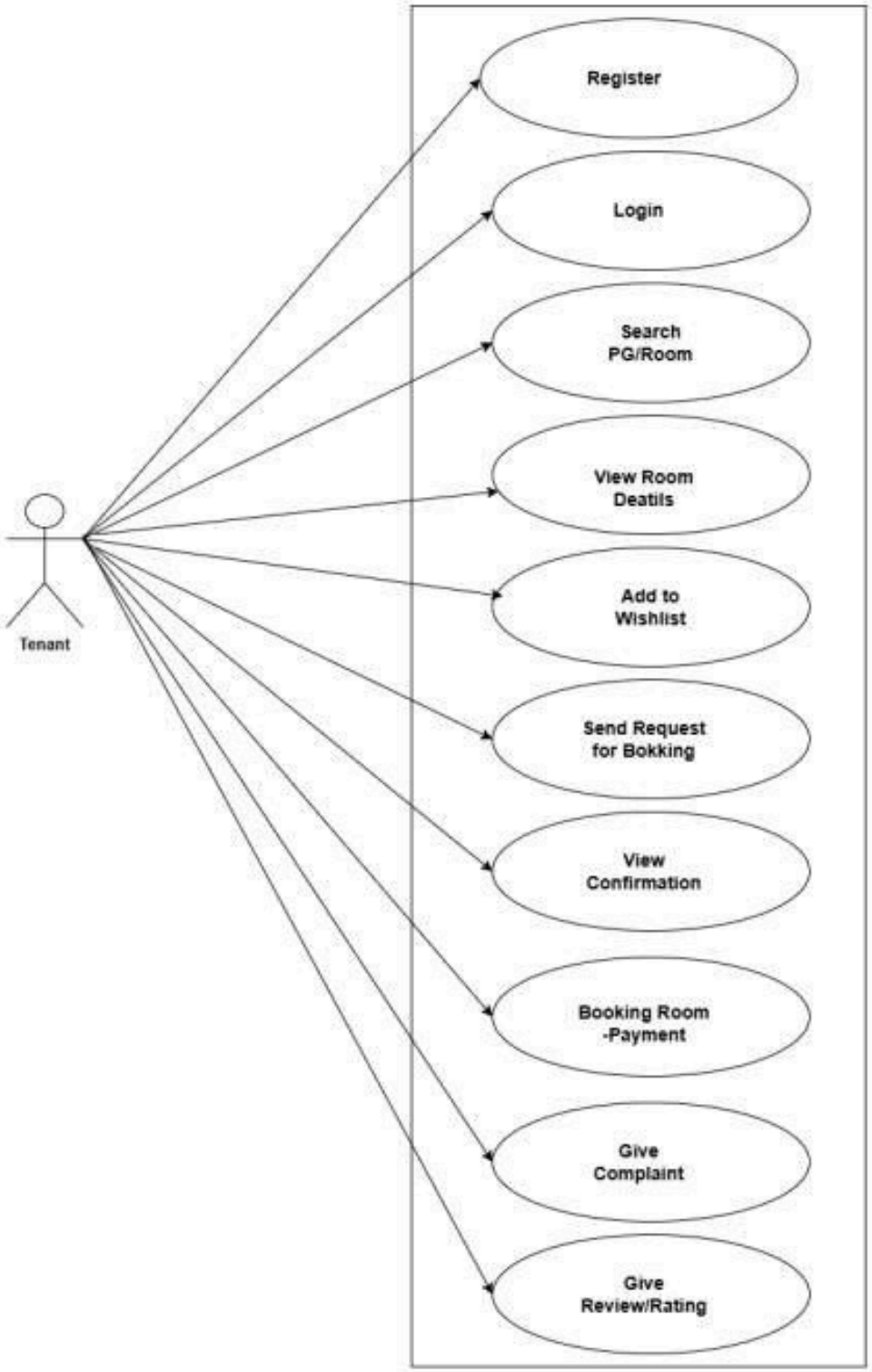


Fig. Use-Case Diagram for Tenant

6. *Database Design:*

1. Users Table:

Field Name	Type	Key	Description
user_id	INT	Primary Key	Unique user ID
role_id	INT	Foreign Key	(Admin/Owner/Tenant)
name	VARCHAR(255)	-	User full name
email	VARCHAR(255)	Unique	Email address
phone	VARCHAR(15)	-	Contact number
password	VARCHAR(255)	-	Encrypted password
gender	VARCHAR(25)	-	Gender of user
created_at	DATE	-	Account creation date
status	VARCHAR(255)	-	Account status (Active/Inactive)

2. State Table:

Field Name	Type	Key	Description
state_id	INT	Primary Key	Unique state ID
state_name	VARCHAR(255)	-	Name of state

3.Pg_Property table:

Field Name	Type	Key	Description
pg_id	INT	Primary Key	Unique PG ID
owner_id	INT	Foreign Key	Owner reference (user_id)
pg_name	VARCHAR(255)	-	Name of PG
description	VARCHAR(255)	-	PG description
address	INT	-	Address reference
type	VARCHAR(255)	-	PG type (Boys/Girls/Co-
rent	INT	-	Base rent
facility	VARCHAR(255)	-	Facilities available
status	VARCHAR(255)	-	PG availability status
city_id	INT	Foreign Key	City reference

4. ***Rooms table:***

Field Name	Type	Key	Description
room_id	INT	Primary Key	Unique Room ID
pg_id	INT	Foreign Key	PG reference
room_no	VARCHAR(25)	-	Room number
room_type	VARCHAR(25)	-	Room type
total_bed	INT	-	Total beds in
available_bed	INT	-	Available beds
sharing	INT	-	Sharing type
security_deposit	INT	-	Security deposit
status	VARCHAR(255)	-	Room availability

5.Booking table:

Field Name	Type	Key	Description
booking_id	INT	Primary Key	Unique booking ID
tenant_id	INT	Foreign Key	Tenant reference (user_id)
room_id	INT	Foreign Key	Room reference
book_date	DATE	-	Booking date
start_date	DATE	-	Stay start date
end_date	DATE	-	Stay end date
rent_amount	INT	-	Rent amount
booking_status	VARCHAR(255)	-	Pending/Approved/Rejected
pg_id	INT	Foreign Key	PG reference

6.Payment table:

Field Name	Type	Key	Description
payment_id	INT	Primary Key	Unique payment ID
booking_id	INT	Foreign Key	Booking reference
amount	INT	-	Payment amount
payment_mode	VARCHAR(255)	-	Payment method
payment_status	VARCHAR(255)	-	Paid/Failed

7.Complaint table:

Field Name	Type	Key	Description
complaint_id	INT	Primary Key	Unique complaint ID
tenant_id	INT	Foreign Key	Tenant reference
pg_id	INT	Foreign Key	PG reference
message	VARCHAR(255)	-	Complaint details
status	VARCHAR(255)	-	Open/Resolved
complaint_date	DATE	-	Complaint submission date

8. ***Feedback table:***

Field Name	Type	Key	Description
feedback_id	INT	Primary Key	Unique feedback ID
tenant_id	INT	Foreign Key	Tenant reference
pg_id	INT	Foreign Key	PG reference
rating	INT	-	Star rating (1–5)
comment	VARCHAR(255)	-	Review message
feedback_date	DATE	-	Date of feedback

9.Roles table:

Field	*Type*	*Null*	*Key*	*Default*	*Description*
roleid	Integer		Primary key	Null	Unique role ID
rolename	Varchar(45)			Null	Name of the role of person who is logging in

10.City table:

Field	*Type*	*Key*	*Default*		*Description*
cityid	Integer		Null		City ID
cityname	Varchar(45)		Null		Name of the city

8. ER-Diagram:

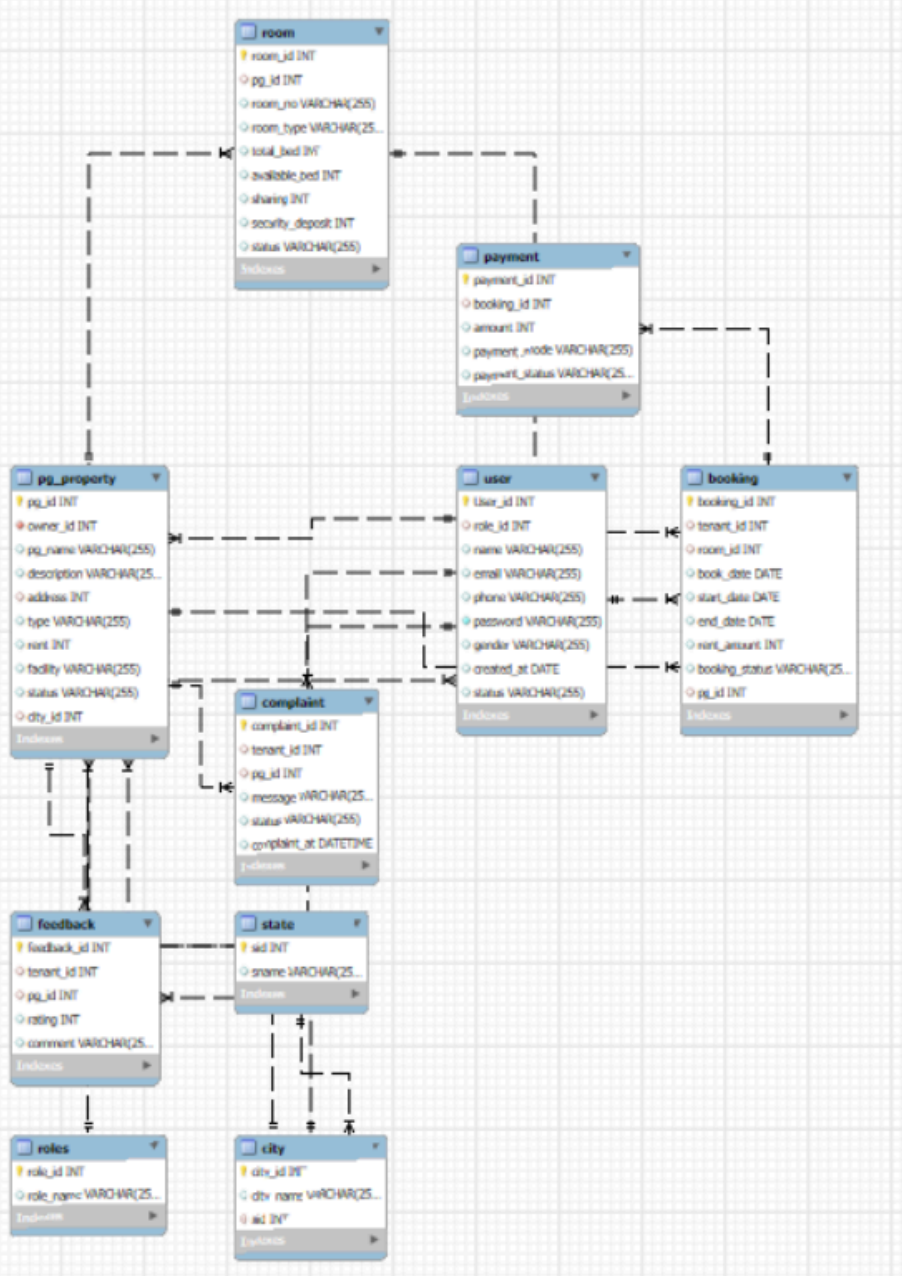
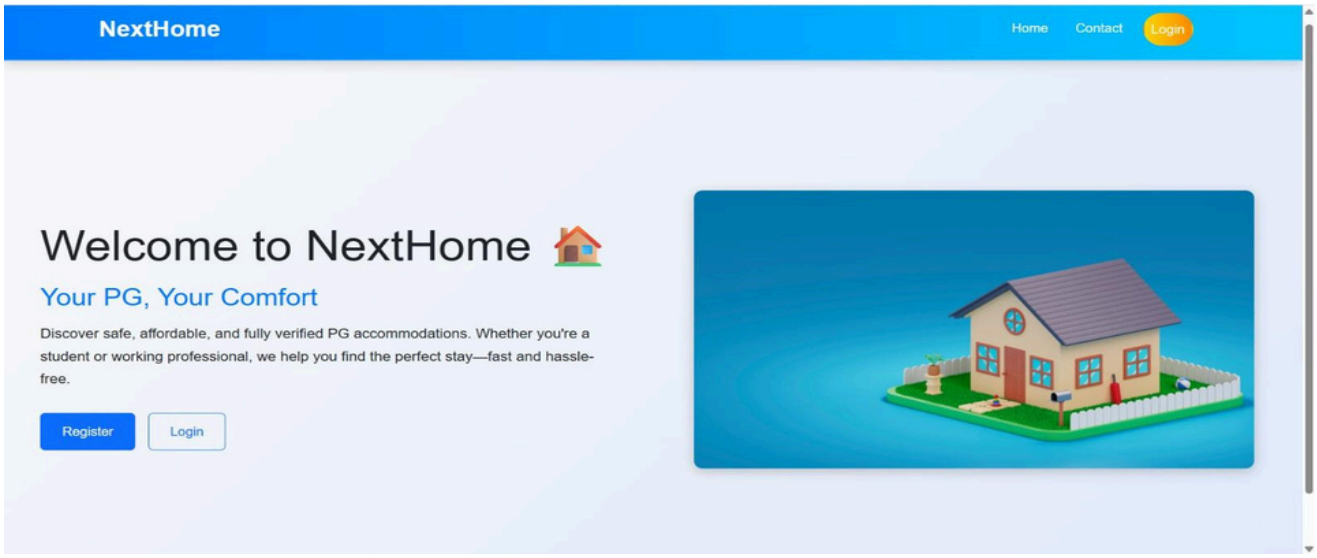


Fig.E-R diagram shows database of NextHome

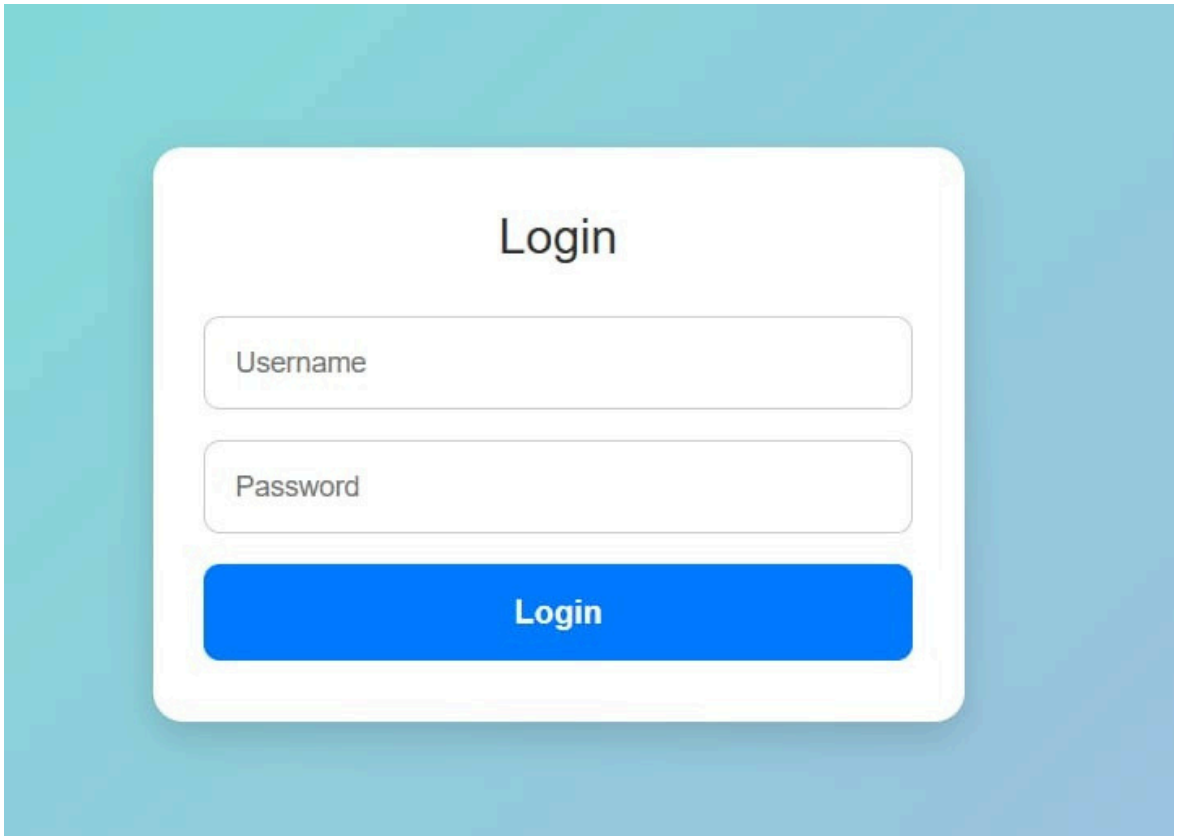
9. Snapshots:

Home Page:

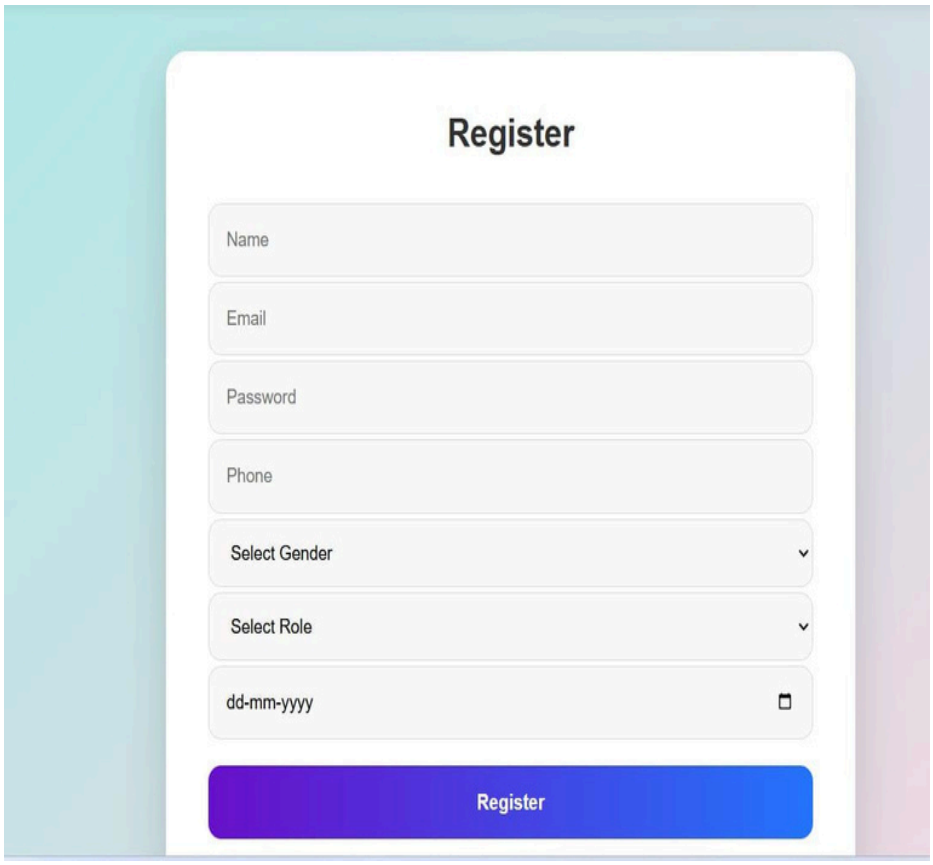


Login Page:

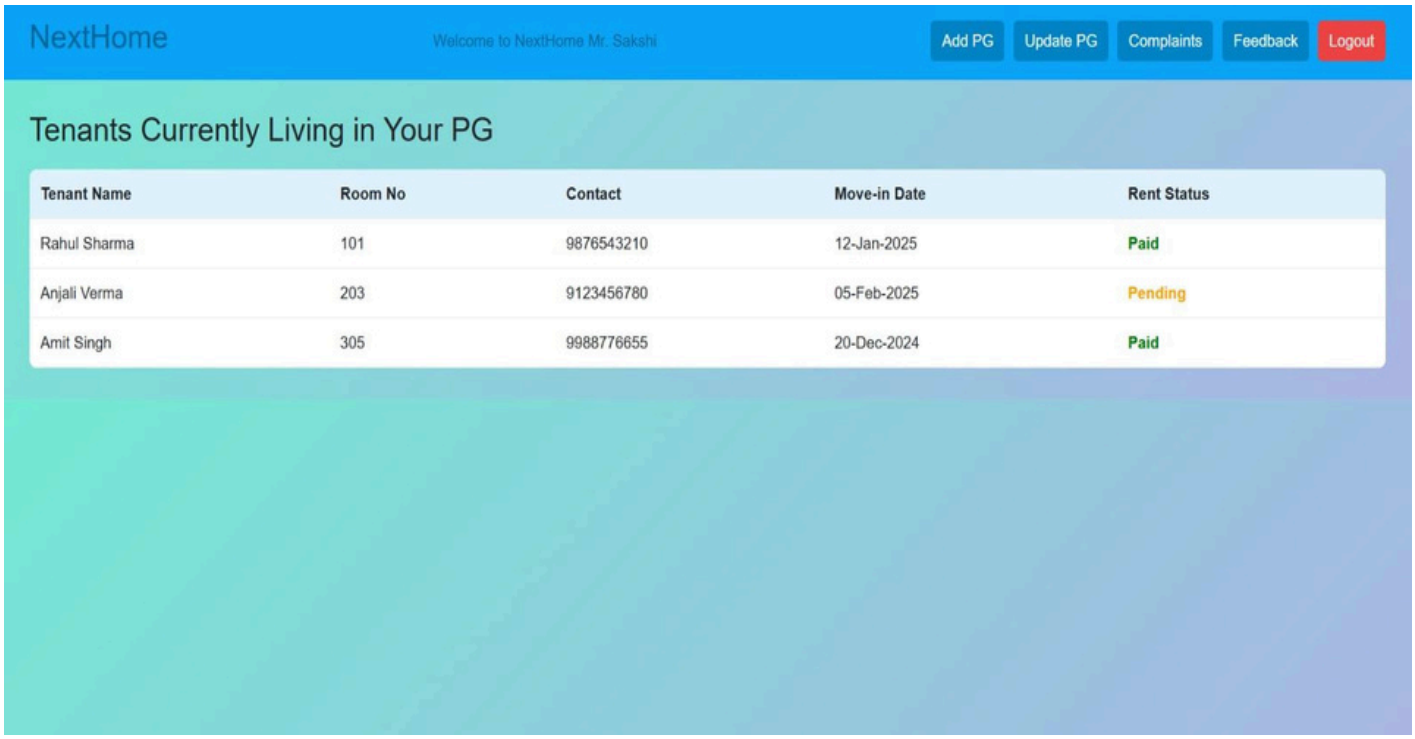
Following snapshot shows the Login page for NextHome



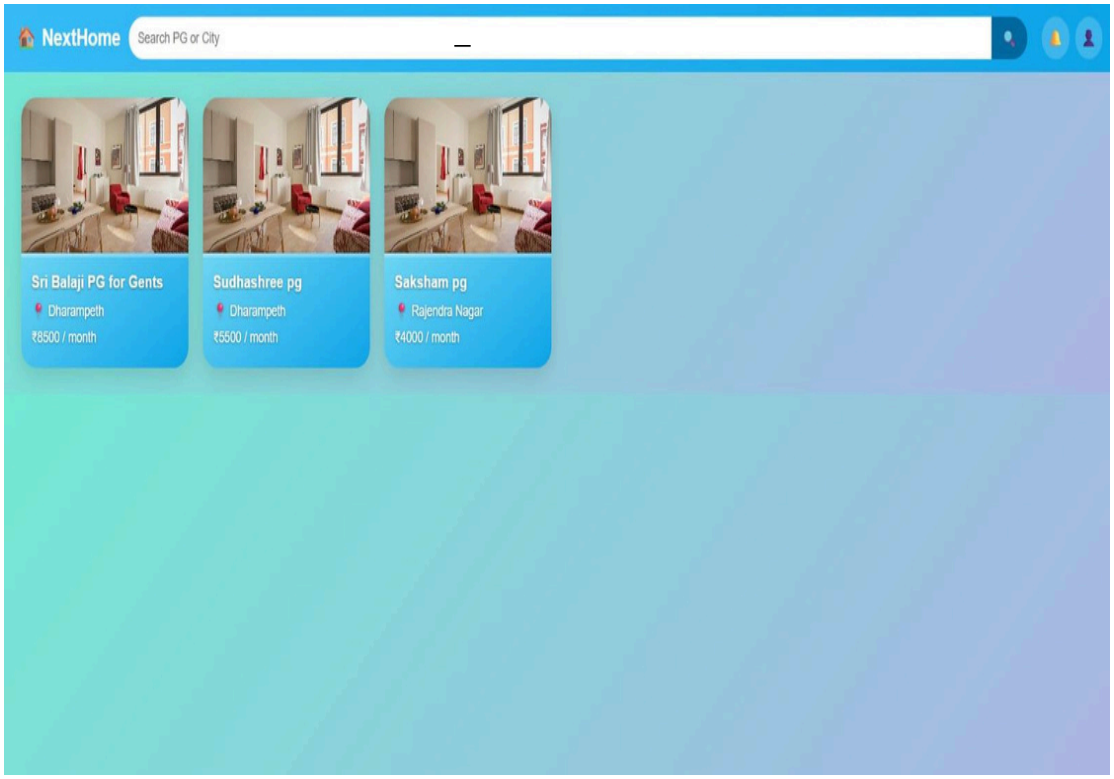
Register Page:



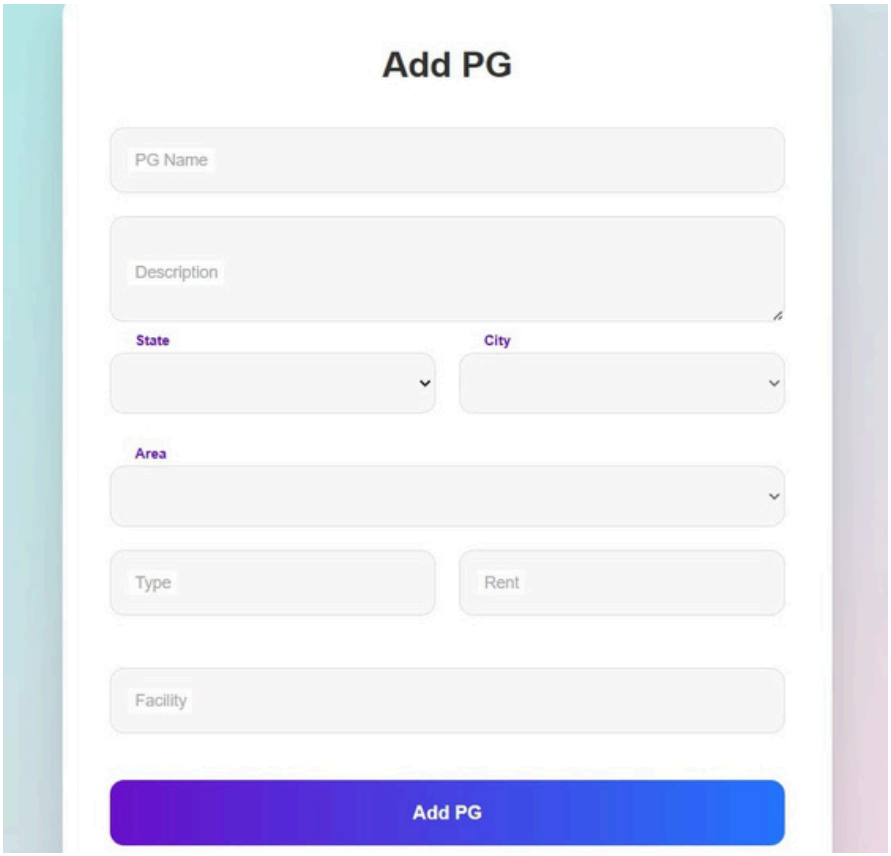
Tenant login Page:



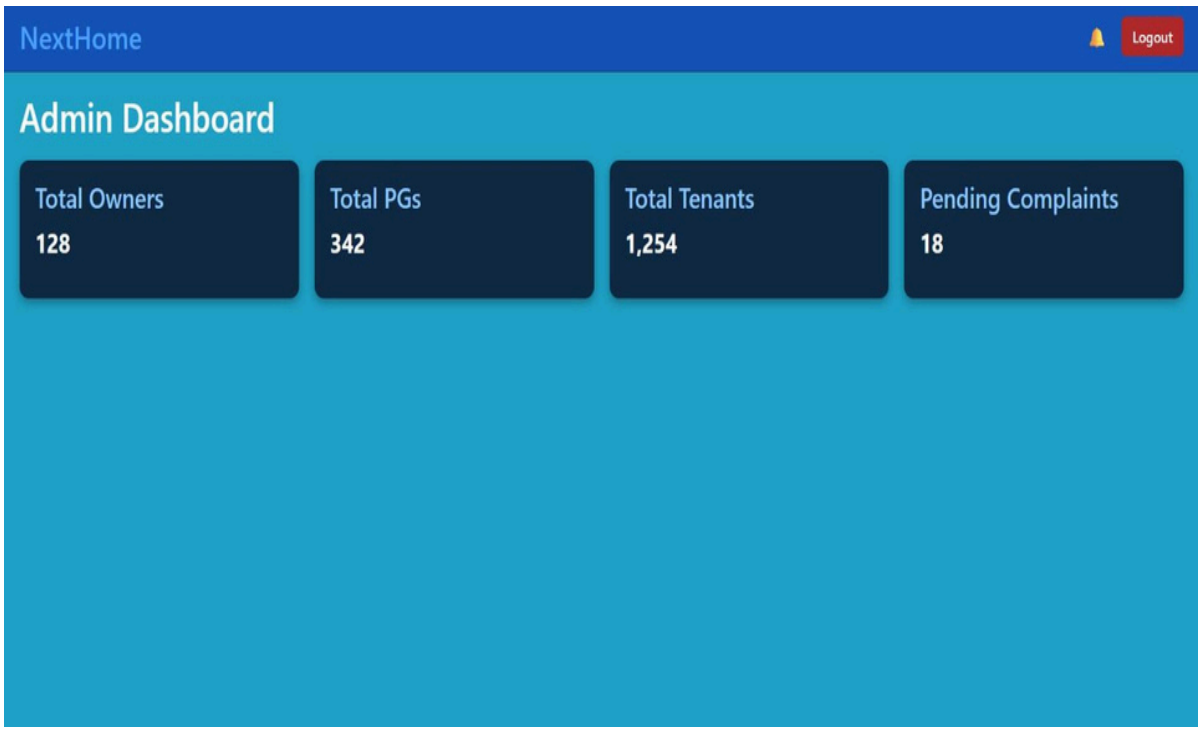
All PG Listing Page:



Add PG :



Admin Page:


NextHome
Logout
Admin Dashboard
Total Owners
128
Total PGs
342
Total Tenants
1,254
Pending Complaints
18

CONCLUSION :

Nexthome – PG & Hostel Rental System provides a centralized and digital solution for managing PG accommodations efficiently. The system successfully connects tenants and PG owners through a secure and user-friendly platform. It simplifies the process of searching, booking, and managing PG rooms while reducing manual work and paperwork.

Through role-based access control, secure authentication, real-time room availability, and online payment integration, the system ensures transparency and reliability. The Admin module supervises the platform, the Owner module manages PG listings and bookings, and the Tenant module provides convenient search and booking functionality.