Project Name: “NEST FIND”
Branch DAC march 2024s

Documentation On
“NestFind”

PG-DAC March 2024

Guided By:

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1. Introduction:

1.1 Document Purpose:

This document communicates the business requirements and scope for developing find. The scope of this document is to define the functional and non functional requirements, business rules and other constraints requirements.

1.2 Project Background:

A House rental is a house that can be used temporarily for a period of time with a fee. Renting a house assists people to live in a comfortable house when they do not have access to build their own personal homes/houses or. The individual who want to rent a house/room/apartment/home/flat must first contact the House rental company for the desire House/Home/apartment. This can be done online. At this point, this person has to supply some information such as; dates of rental, and type of house. After these details are worked out .Most companies throughout the industry make a profit based of the type of house that are rented.The rental houses are categorized into modern Homes, Colonial, apartment, Rentals etc. And customers are free to choose any house of their choice based on their purse and availability of such houses at the time of booking

1.3 Aim & Objectives:

- Eco-friendly: The monitoring of the Housing activity and the overall business becomes easy and includes the least of paper work.
- The software acts as an office that is open 24/7.
- It increases the efficiency of the management at offering quality services to the customers.
- It provides custom features development and support with the software.

2. Business Requirements Overview:

The advancement in Information Technology and internet penetration has greatly enhancedvarious business processes and communication between companies (services provider) and their customers of which Real Estate/House Rentals industry is not left out. This House Rental System is developed to provide the following services:

- Enhance Business Processes: To be able to use internet technology to project the rental company to the global world instead of limiting their services to their local domain alone,thus increase their return on investment.

- Online House/Room Booking: A tools through which customers can book availableRooms/House/Apartment online prior to their date of using the house instead of walkingaround and asking for a vacant house.

- Customer's registration: A registration portal to hold customer's details, monitor their transaction and used same to offer better and improve services to them and user accountwhere he/she can view her/his details instead of the poor existing systems where only theadministrators control their customer details.

- Rentals Notice and Blog: A tool where customers can see and view the details of nearbyavailable House for rent/sale, and also view the current economic design of houses/apartments

3. Functional Requirements Overview:

The NestFind Module is the core of the Property Management System. It is designed for Landlord (Owner of Property) as well as Renter (Tentant) to post property on rent and buy property on rent. Handle all aspects of Landlord to posting their property on rent. This module ensures that renter can easily search the property and booked the property as well as landlord can easily post their property on "NestFind" website.

1. Renter Module
2. Landlord Module
3. Admin Module

3.1 Renter Module

- User can register as a Renter.
- Renter can login to the NestFind System.
- Renter can see properties.
- Renter can search properties based on their preferences
- Renter can book property.
- Renter can pay the rent of property.

3.2 Landlord Module

- Landlord can do registration.
- Landlord can do login to the system.
- Landlord can upload information about their facilities.
- Landlord can upload information about different properties offered.
- Landlord can update the property availability.

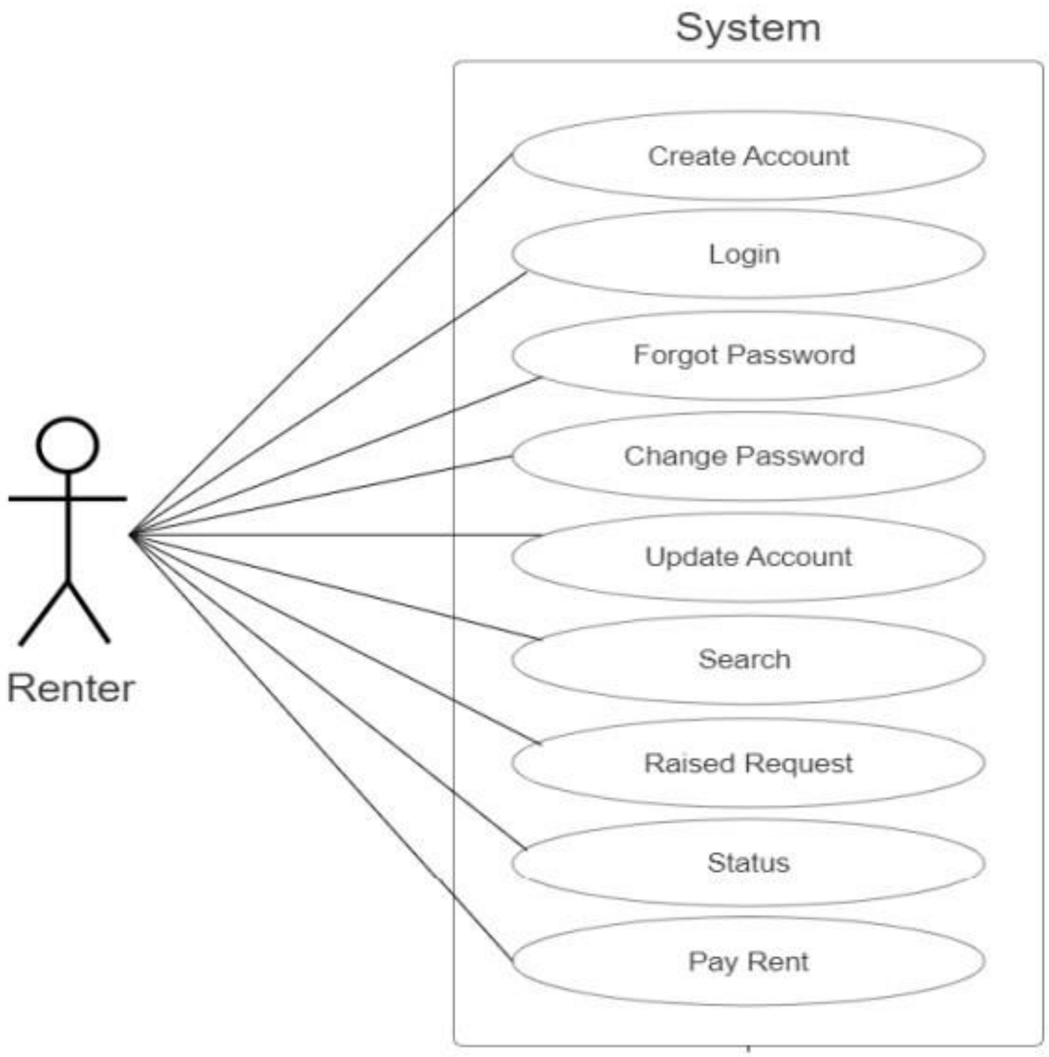
3.3 Admin Module

- Create/update the list of standard tasks.
- Could generate a report about completed servicing tasks.

4. Non-Functional Requirement:

- The website should use professional design, look and feel and color scheme.
- Users will have no limitations for accessing the application through the Internet. The portal being an internet application, it is difficult to specify an exact number of visitors or users. Hence, we will target the system to support sufficient users on the launch of phase 1.
- Being a public website, the site must follow general usability guidelines for menus, navigation, colors, links and other actions provided on the screens.
- The system should be designed in such a manner that the user will be able to complete tasks in a minimum number of steps.

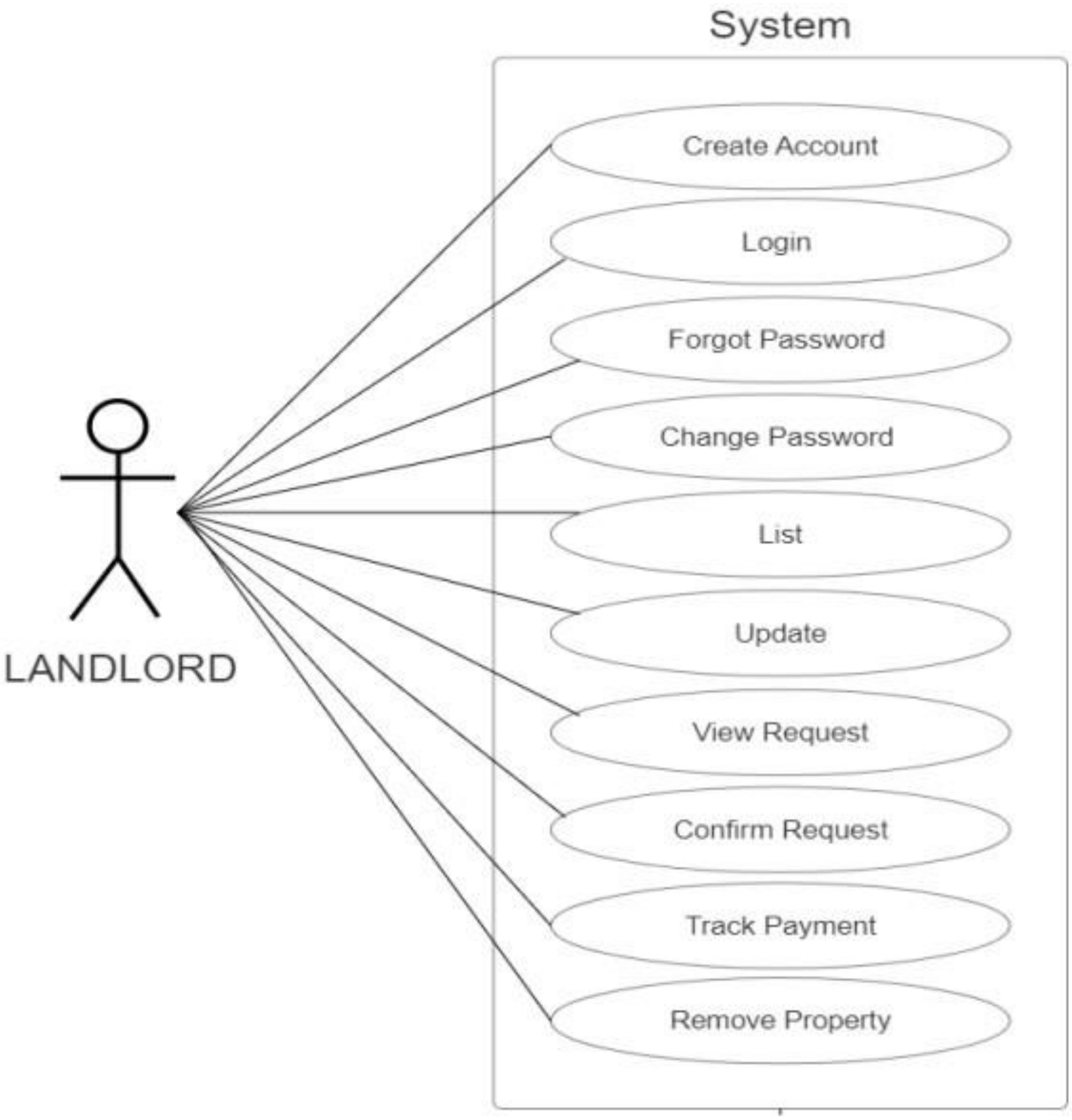
5. Use-Case Diagram



5.1 Renter:

Fig. Use-Case Diagram for Renter

1. In Renter use case diagram Renter is the Actor.
2. Renter can handle following use cases:
   a. Create Account
   b. Login
   c. Forgot Password
   d. Change Password
   e. Update Account
   f. Search
   g. Raised Request
   h. Status
   i. Pay Rent

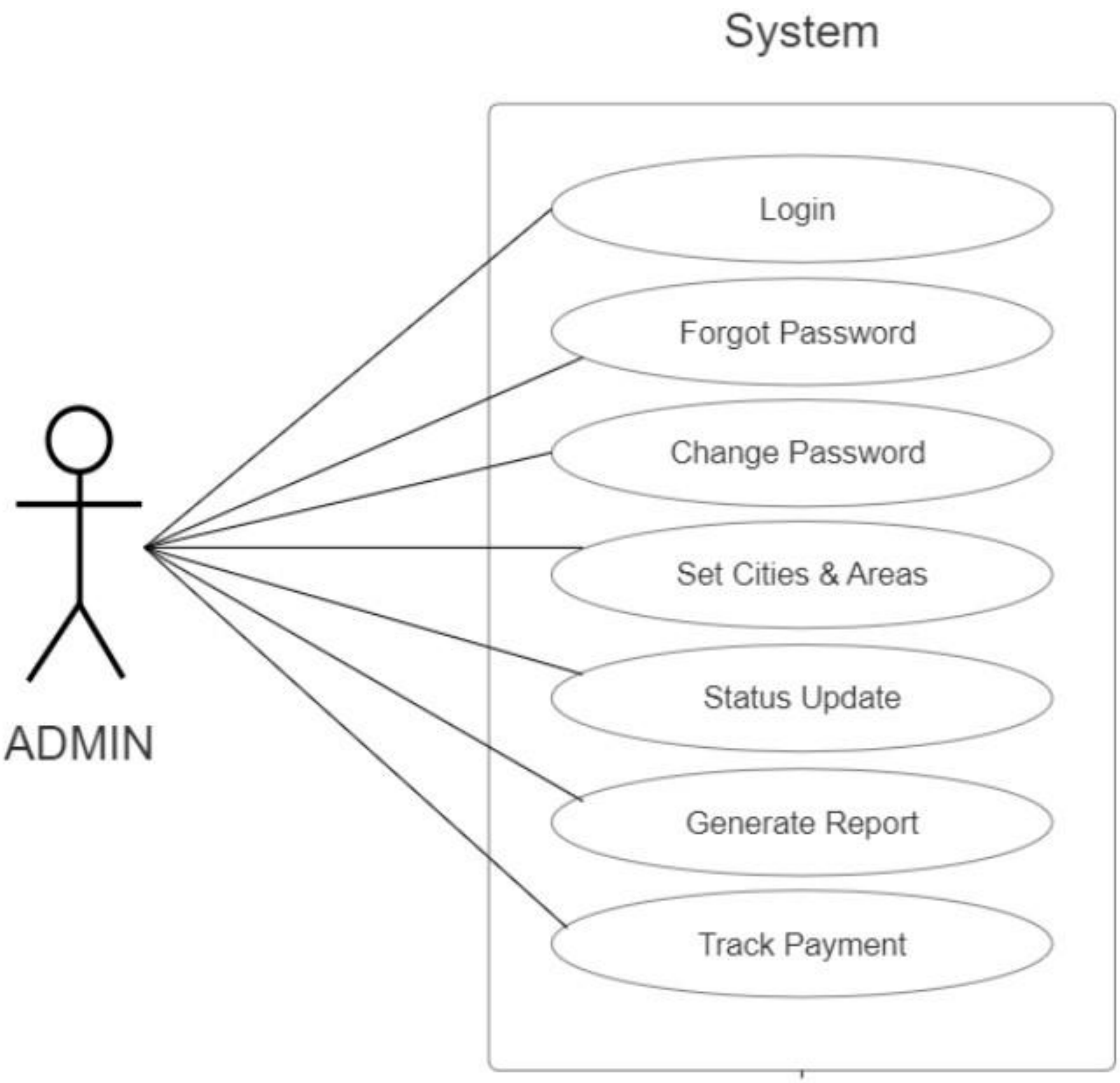


5.2 Landlord:

Fig. Use-Case Diagram for Landlord

1. In Landlord use case diagram Landlord is the Actor.
2. Landlord can handle following use cases:
   a. Create Account
   b. Login
   c. Forgot Password
   d. Change Password
   e. List f. Update
   f. View Request
   g. Confirm Request
   h. Track Payment
   i. Remove Property

5.3 : Admin :



5.3 Admin

Fig. Use-Case Diagram for Admin

1. In Admin use case diagram Admin is the Actor.
2. Admin can handle following use cases:
   a. Login
   b. Forgot Password
   c. Change Password
   d. Set Cities & Areas
   e. Status Update
   f. Generate Report
   g. Track Payment

6. Project Architecture Diagram:

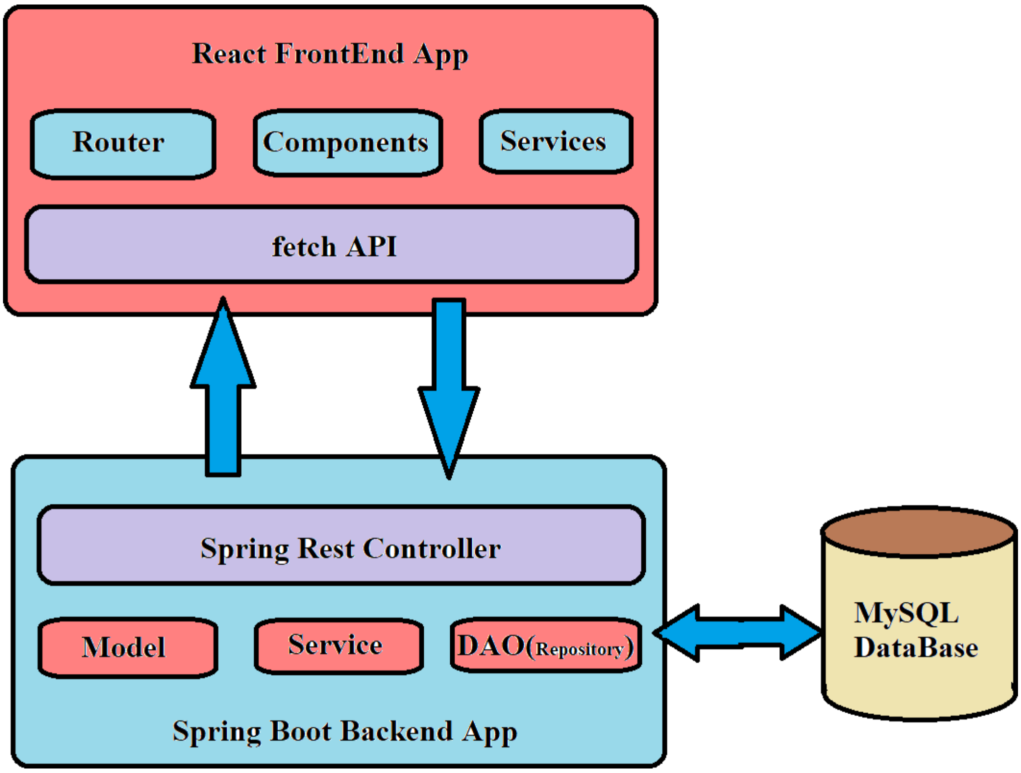


Fig. Project Architecture Diagram

7. Database Design:

User table:

Field	Type	Constraints	Description
user_id	Integer	Primary Key, Auto Increment	Unique Renter / Landlord ID
firstname	Varchar(255)	Not Null	First name of Renter / Landlord
lastname	Varchar(255)	Not Null	Last name of Renter / Landlord
role_id	int	Not Null, Foreign Key	Role of User
adhar_no	Varchar(45)	Not Null, Unique	Adhar number of Renter / Landlord
email_id	Varchar(45)	Not Null, Unique	email id of Renter / Landlord
pan_no	Varchar(45)	Not Null, Unique	Pan no of Renter / Landlord
mobile	Varchar(45)	Not Null, Unique	Mobile no of Renter / Landlord
user_name	Varchar(45)	Not Null, Unique	User name of Renter / Landlord
password	Varchar(45)	Not Null	Password of Renter / Landlord

Booking table:

Field	Type	Key	Description
booking_id	Int	Primary key	Unique ID of Booking
property_id	Int	Not Null, Foreign Key	ID of the Booking Property
b_date	date	Not Null	Booking date
start_date	date	Not Null	Start Date of Rent Agreement
end_date	date	Not Null	End Date of Rent Agreement
rent_price	double	Not Null	Rent Price
deposit	double	Not Null	Deposit of Property
pay_id	Int	Not Null, Foreign Key	Payment ID
user_id	Int	Not Null, Foreign Key	Renter’s User ID

Amenities table:

Field	Type	Key	Description
Amenities_id	Int	Primary key, Auto Incremented	Unique ID of Amenities
Amenities_name	Varchar(225)	Unique	Name of Amenities

Area table:

Field	Type	Key	Description
Area_id	Int	Primary key, Auto Incremented	Unique ID of Area
Area_name	Varchar(100)	Not Null	Name of Area
Pin_code	Varchar(10)	Uinque	Area Pincode
City_id	Varchar(10)	Not Null, Foreign Key	City Id

City table

Field	Type	Key	Description
City_id	Int	Primary key, Auto Incremented	Unique ID of City
State_id	Int	Not Null, Foreign Key	State ID
City_name	Varchar(255)	Not Null	City Name

Location table:

Field	Type	Key	Description
Location_id	Int	Primary key, Auto Incremented	Unique ID of Location
Property_id	Int	Not Null, Foreign Key	Property ID
Area_id	Int	Not Null, Foreign Key	Area ID
Address	Varchar(255)	Not Null	

Payment table:

Field	Type	Key	Description
Pay_id	Integer	Primary key, Auto Incremented	Unique Payment ID
Pay_mode	Varchar(255)		Mode of Payment
Pay_date	date		Payment Date
Amount	double		Rent Price

Photos table:

Field	Type	Key	Description
Photo_id	Int	Primary key, Auto Incremented	Photo ID
Property_id	Int	Not Null, Foreign Key	Property ID
Images	Longblob		Images of Property

Property aminities table:

Field	Type	Key	Description
Property_ameninties_id	Int	Primary key, Auto Incremented	Properties Amenities ID
Property_id	Int	Not Null, Foreign Key	Property ID
User_id	Int	Not Null, Foreign Key	User ID

Role table:

Field	Type	Key	Description
Role_id	Int	Primary key, Auto Incremented	Role ID
Role_name	Varchar(50)	Not Null	Role of User

State table:

Field	Type	Key	Description
State_id	Int	Primary key	State ID
State_name	Varchar(255)	Not Null	State Name

Property table:

Field	Type	Key	Description
Property_id	Int	Primary key, Auto Incremented	Property ID
Property_type_id	Int	Not Null, Foreign Key	Type of Property
User_id	Int	Not Null, Foreign Key	Landlord User ID
Rent_price	Double	Not Null	Rent Price
Deposit	Double	Not Null	Deposit Price
Location ID	Int	Not Null	Location ID

Property table:

Field	Type	Key	Description
Property_type_id	Int	Primary key, Auto Incremented	Type of Property
Property_type_name	Varchar(255)	Not Null, Foreign Key	Name of Property Name

8. ER-Diagram:

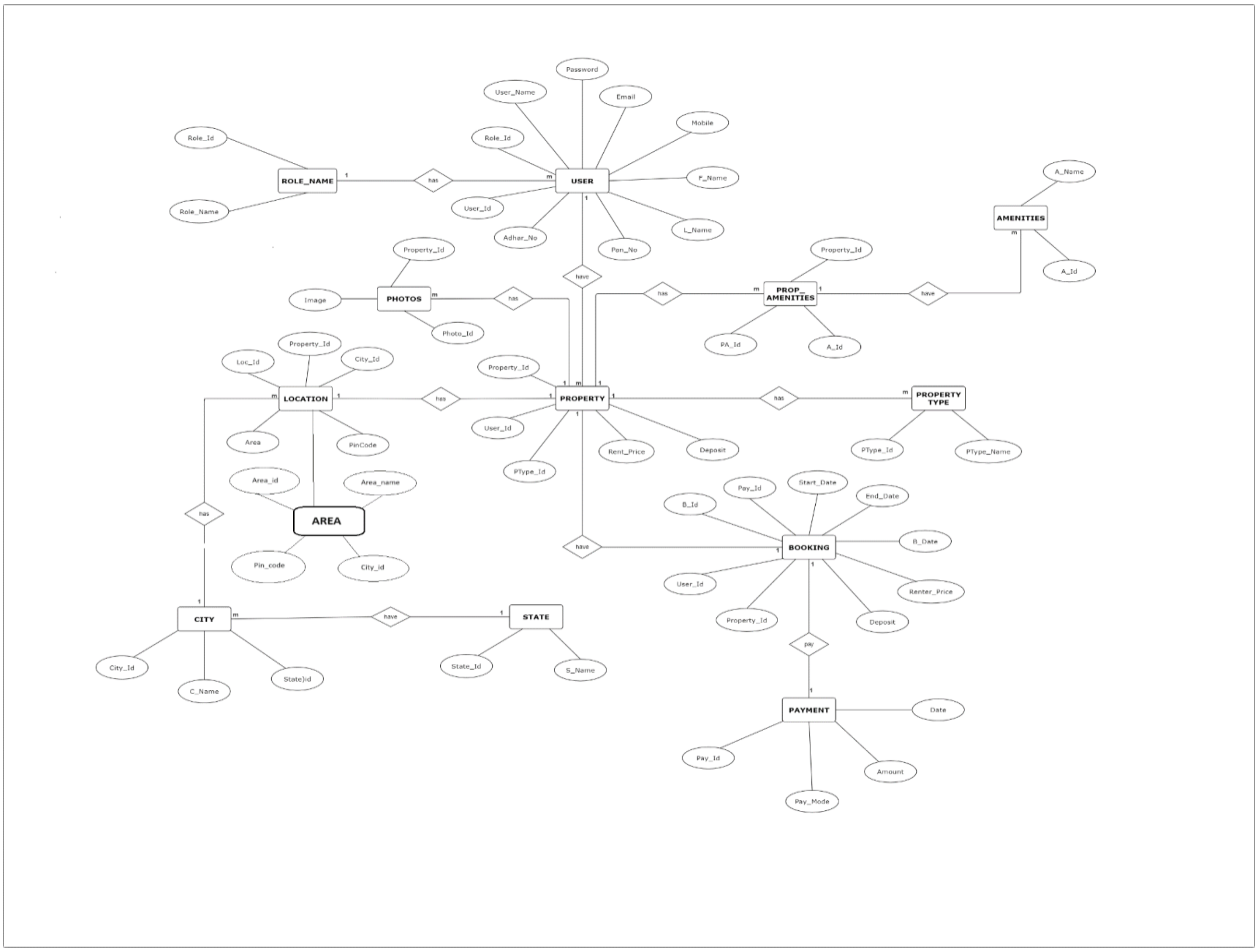
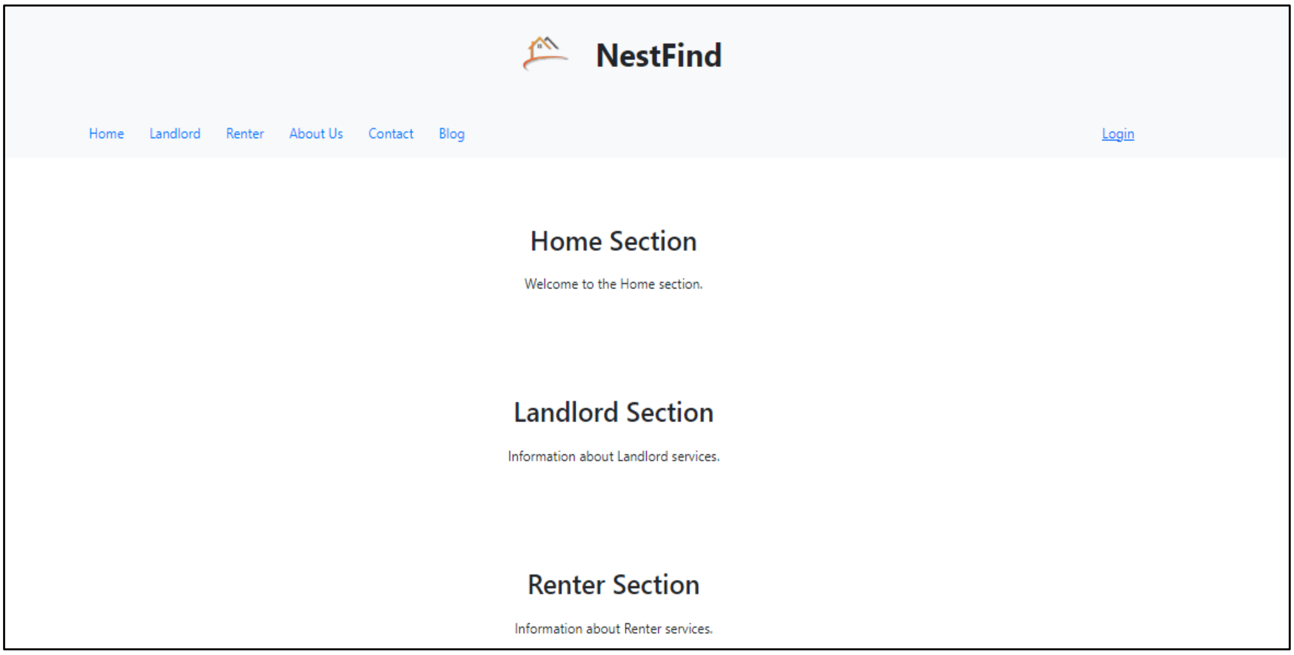


Fig. E-R diagram shows database of NestFind

9. Snapshots:

Following snapshot shows the Home page for Nestfind

9.1 Home Page:



Home Section

Welcome to the Home section.

Landlord Section

Information about Landlord services.

Renter Section

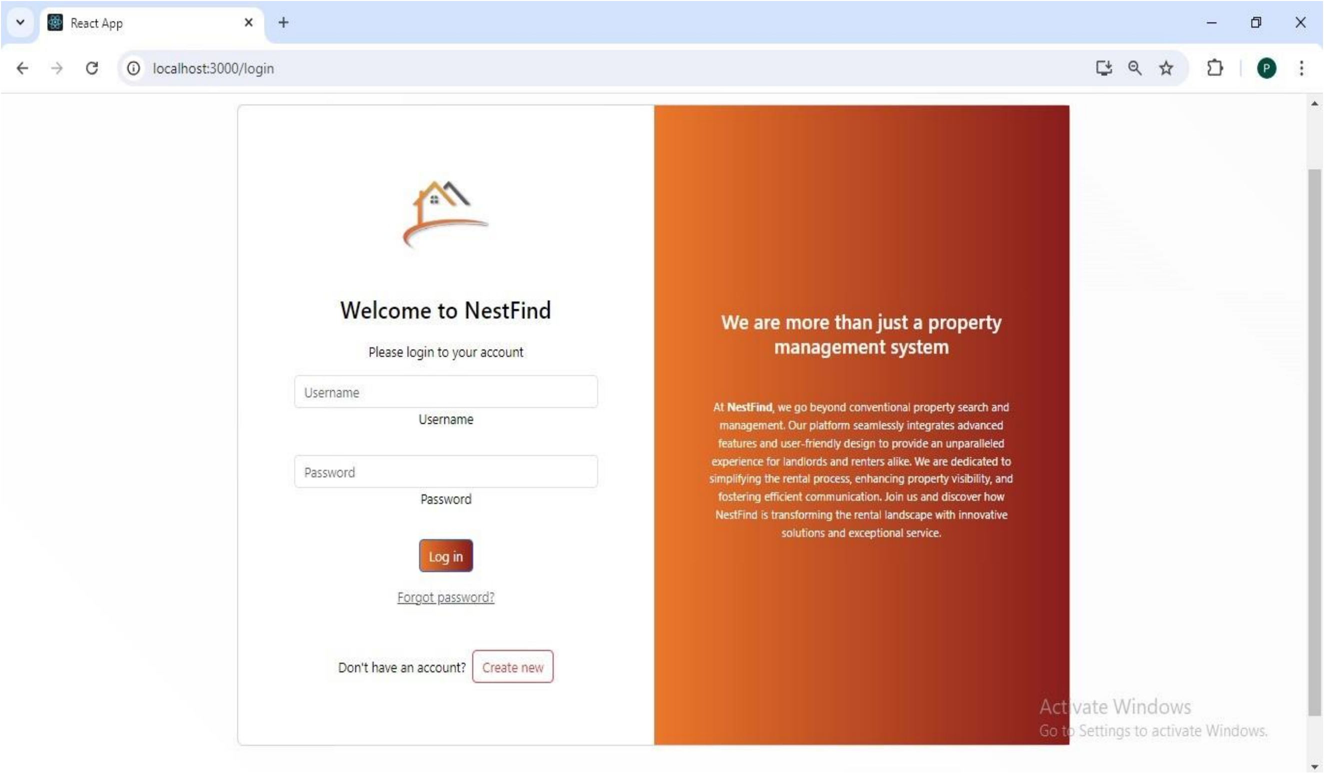
Information about Renter services.

This page contains following controls

- Home
- Landlord
- Renter
- About Us
- Contact
- Blog
- Login

9.2 Login Page:

Following snapshot shows the Login page for Nestfind.



Welcome to NestFind

Please login to your account

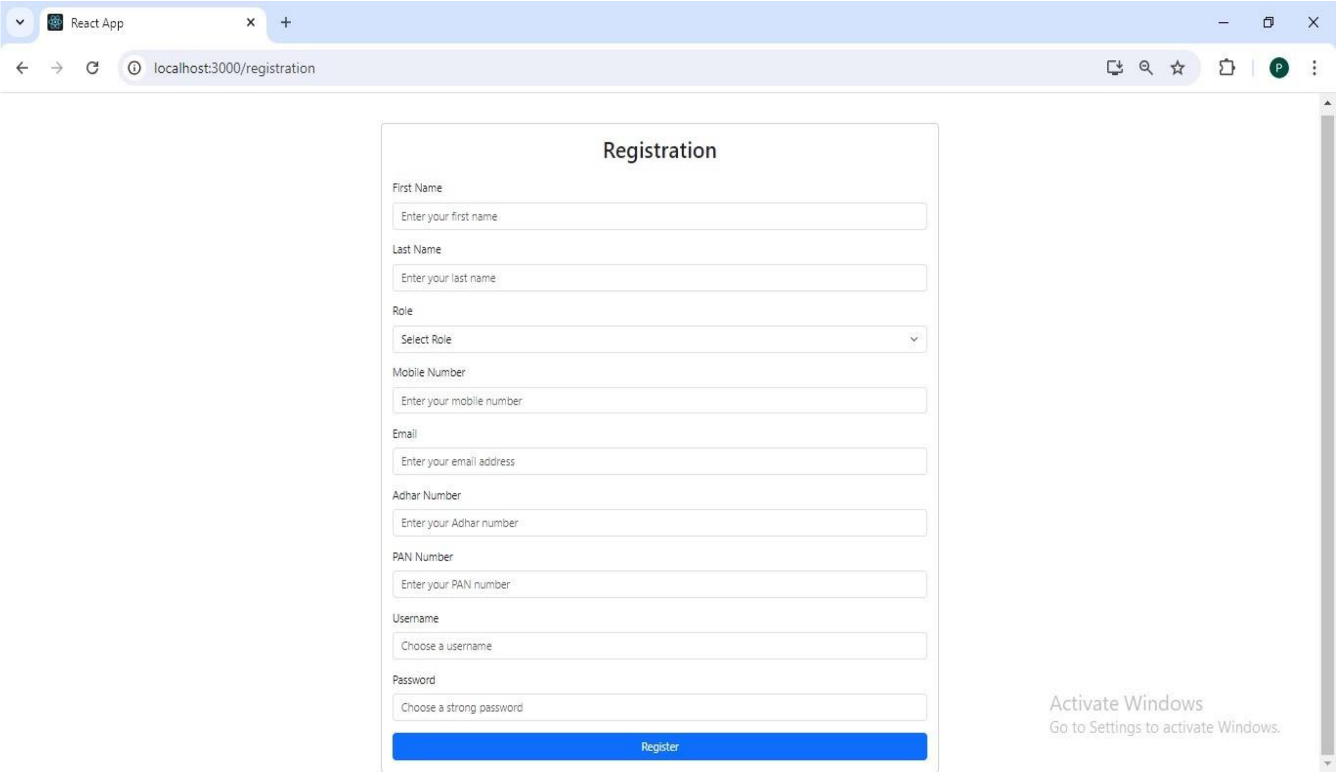
We are more than just a property management system

At **NestFind**, we go beyond conventional property search and management. Our platform seamlessly integrates advanced features and user-friendly design to provide an unparalleled experience for landlords and renters alike. We are dedicated to simplifying the rental process, enhancing property visibility, and fostering efficient communication. Join us and discover how NestFind is transforming the rental landscape with innovative solutions and exceptional service.

9.3 Registration Page:

Following snapshot shows the Sign Up page for Nestfind.

- Renter / Landlord Registration Page:



Registration

First Name

Enter your first name

Last Name

Enter your last name

Role

Select Role

Mobile Number

Enter your mobile number

Email

Enter your email address

Adhar Number

Enter your Adhar number

PAN Number

Enter your PAN number

Username

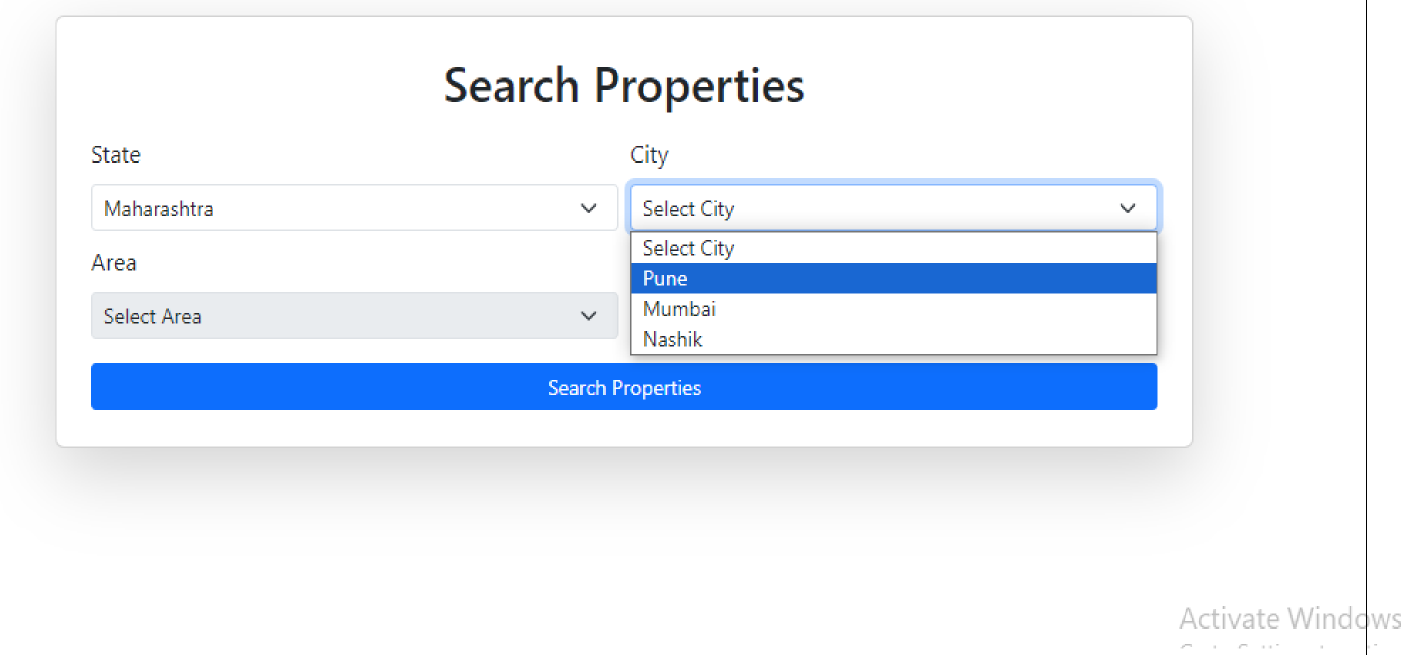
Choose a username

Password

Choose a strong password

Register

9.4 Renter Page:



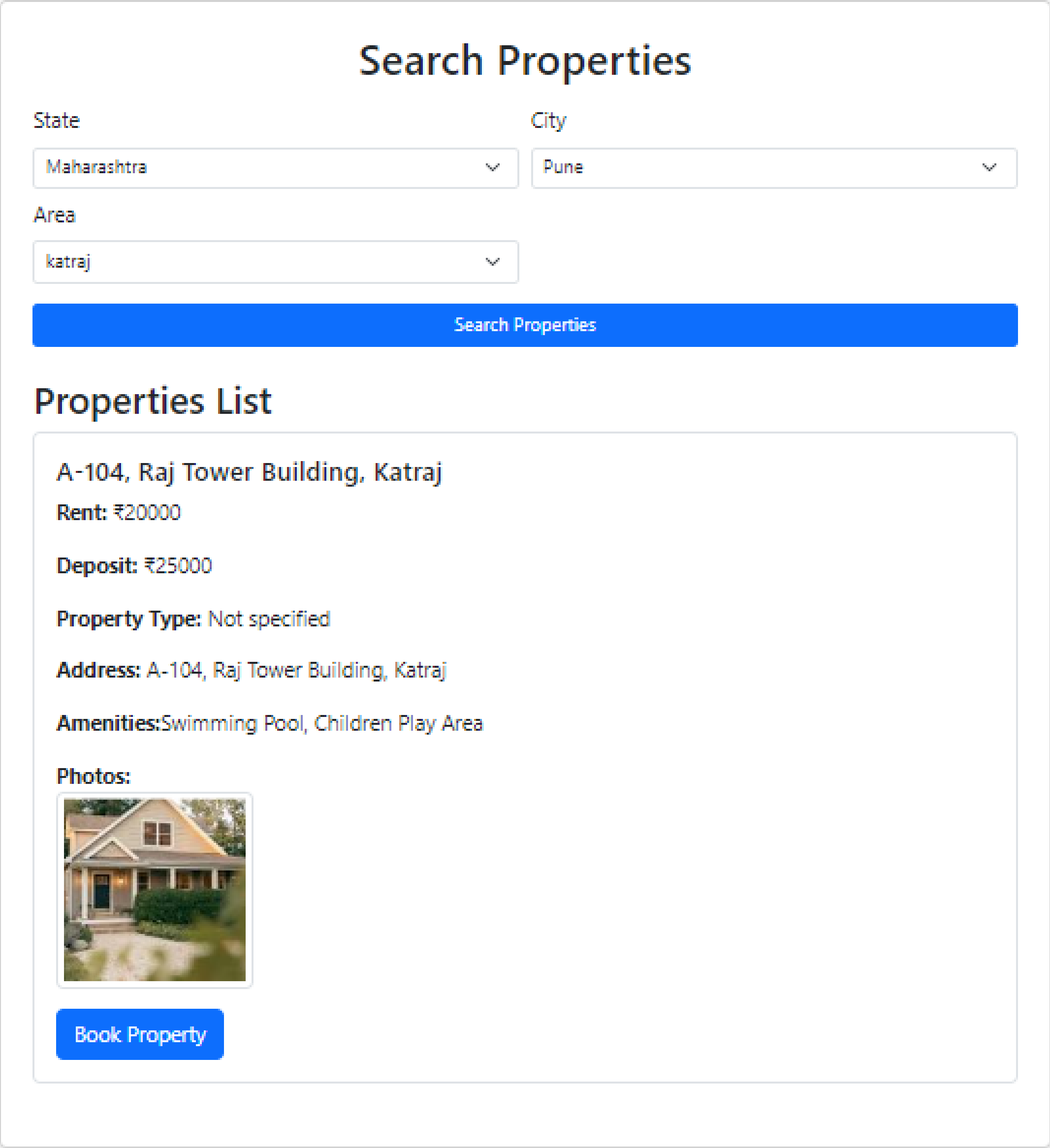
Search Properties

State: Maharashtra

City: Select City

Area: Select Area

9.5 Property Search Page:



Search Properties

State: Maharashtra

City: Pune

Area: katraj

Properties List

A-104, Raj Tower Building, Katraj

Rent: ₹20000

Deposit: ₹25000

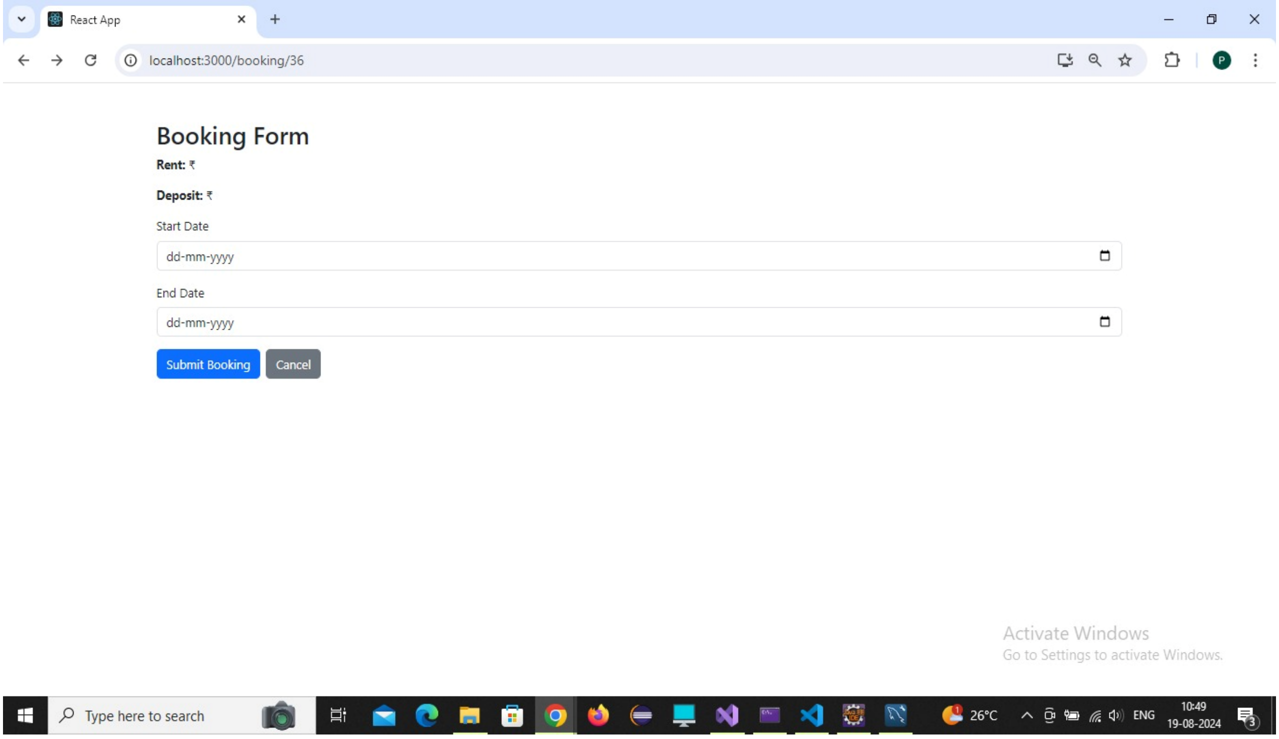
Property Type: Not specified

Address: A-104, Raj Tower Building, Katraj

Amenities: Swimming Pool, Children Play Area

Photos:

9.6 Booking Page:



Booking Form

Rent: ₹

Deposit: ₹

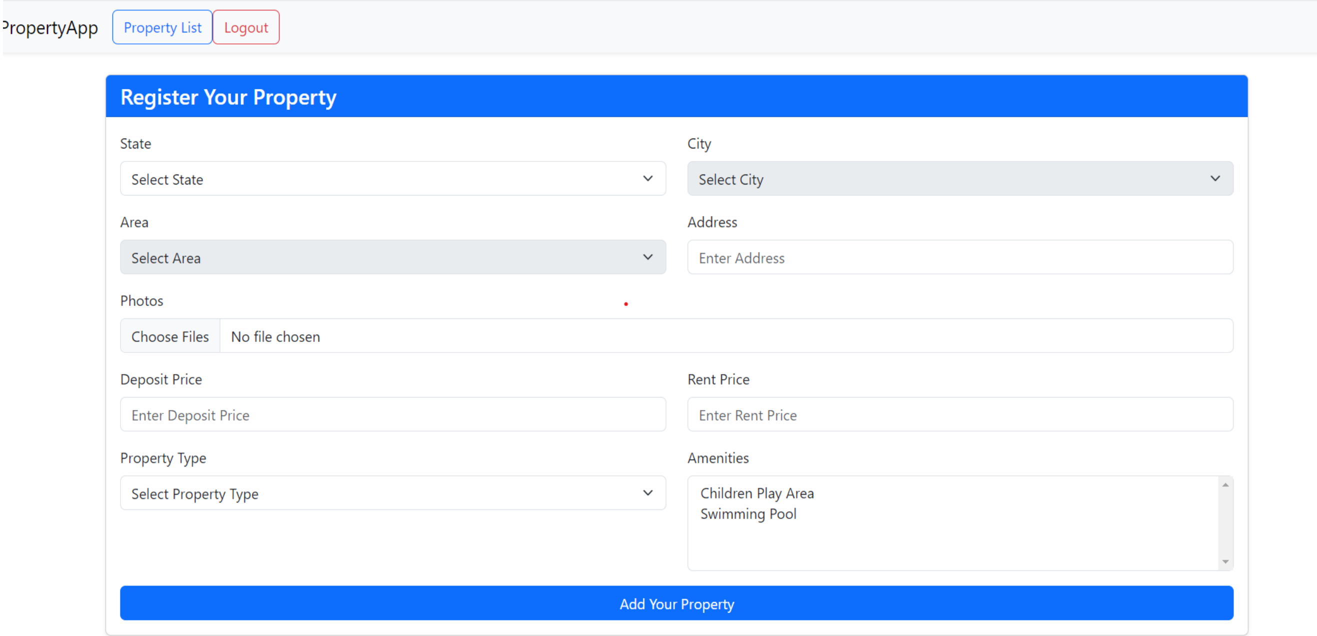
Start Date

dd-mm-yyyy

End Date

dd-mm-yyyy

9.7 Property Registration:



PropertyApp Property List Logout

Register Your Property

State: Select State

City: Select City

Area: Select Area

Address: Enter Address

Photos: Choose Files No file chosen

Deposit Price: Enter Deposit Price

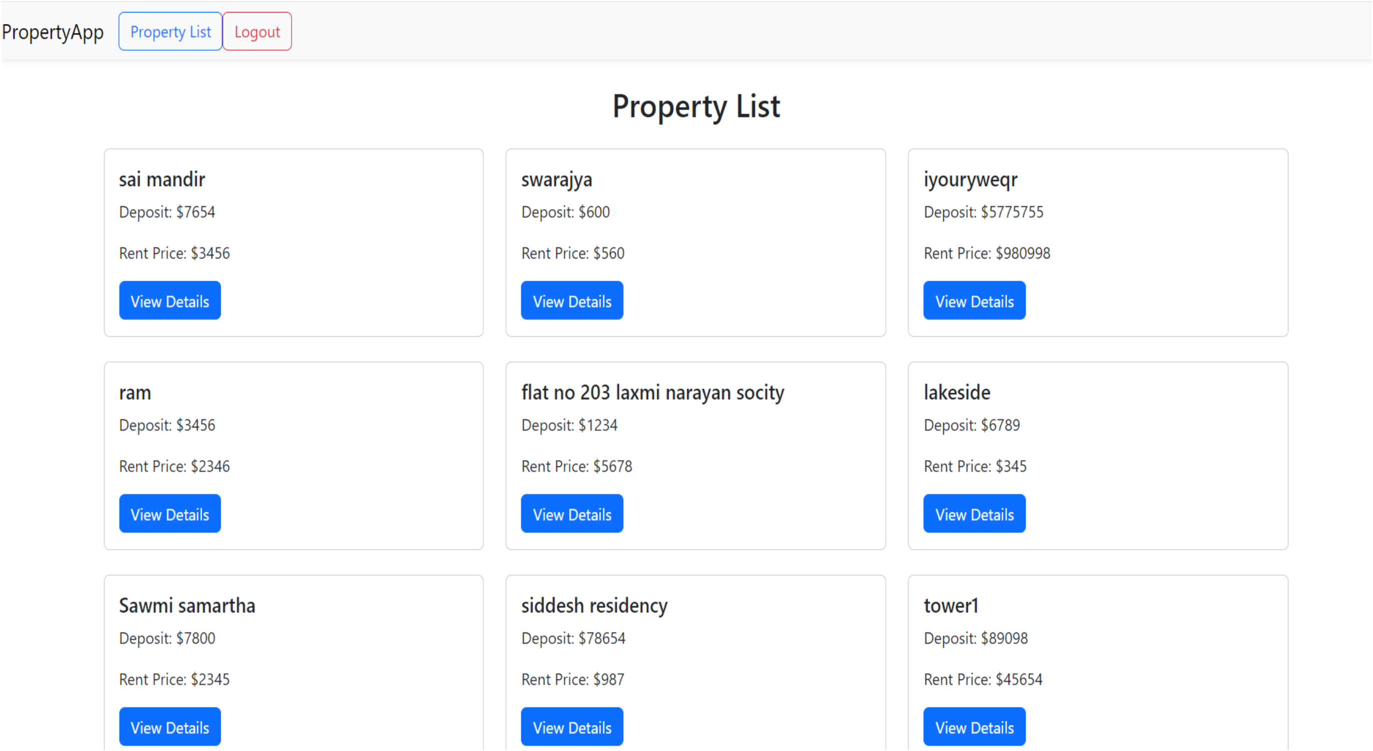
Rent Price: Enter Rent Price

Property Type: Select Property Type

Amenities:
Children Play Area
Swimming Pool

Add Your Property

9.8 List Of Property:



Property List

sai mandir
Deposit: $7654
Rent Price: $3456

swarajya
Deposit: $600
Rent Price: $560

iyouryweqr
Deposit: $5775755
Rent Price: $980998

ram
Deposit: $3456
Rent Price: $2346

flat no 203 laxmi narayan socity
Deposit: $1234
Rent Price: $5678

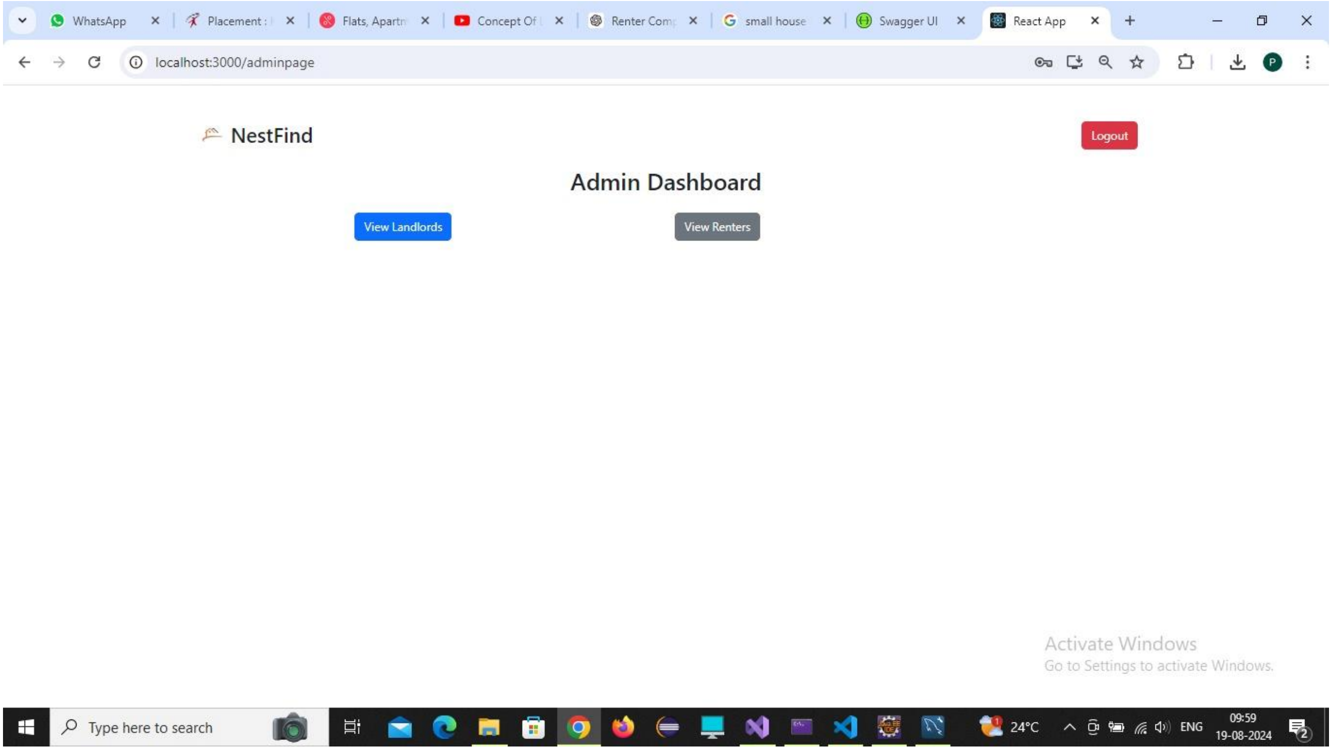
lakeside
Deposit: $6789
Rent Price: $345

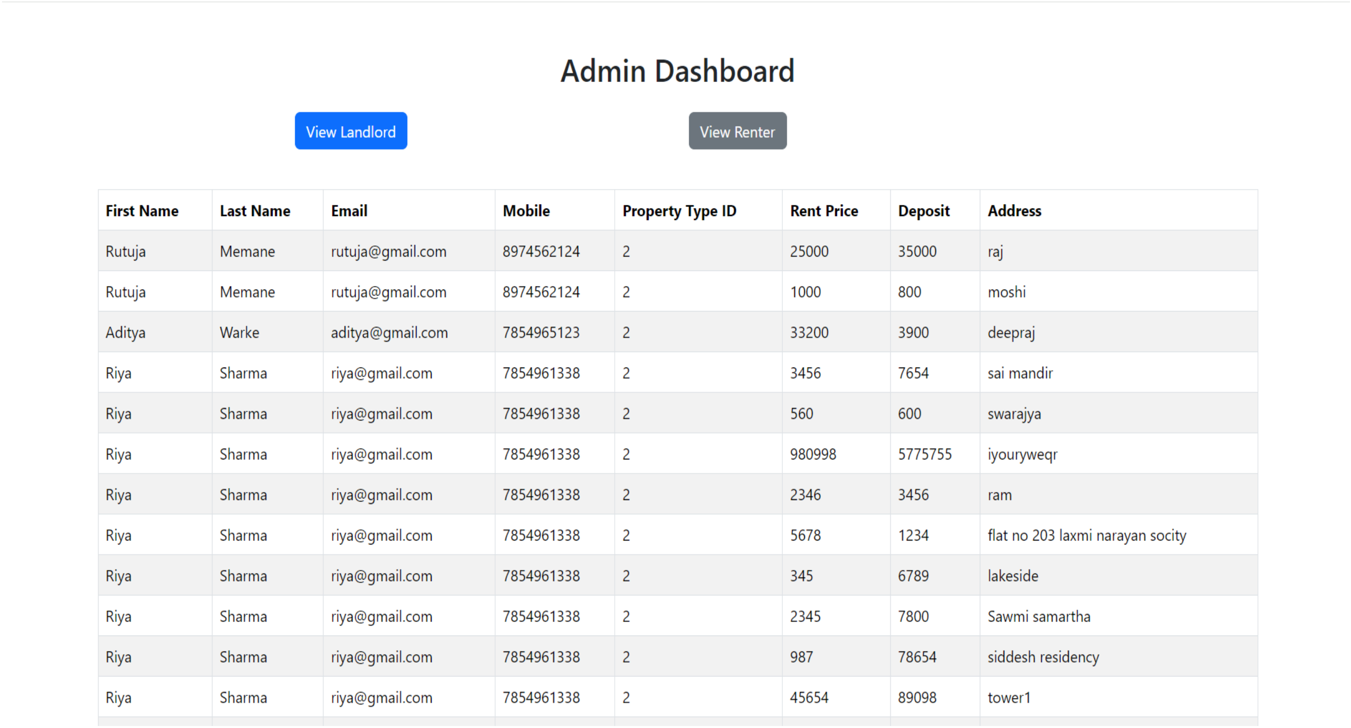
Sawmi samartha
Deposit: $7800
Rent Price: $2345

siddesh residency
Deposit: $78654
Rent Price: $987

tower1
Deposit: $89098
Rent Price: $45654

9.9 Admin:





First Name	Last Name	Email	Mobile	Property Type ID	Rent Price	Deposit	Address
Rutuja	Memane	rutuja@gmail.com	8974562124	2	25000	35000	raj
Rutuja	Memane	rutuja@gmail.com	8974562124	2	1000	800	moshi
Aditya	Warke	aditya@gmail.com	7854965123	2	33200	3900	deepraj
Riya	Sharma	riya@gmail.com	7854961338	2	3456	7654	sai mandir
Riya	Sharma	riya@gmail.com	7854961338	2	560	600	swarajya
Riya	Sharma	riya@gmail.com	7854961338	2	980998	5775755	iyouryweqr
Riya	Sharma	riya@gmail.com	7854961338	2	2346	3456	ram
Riya	Sharma	riya@gmail.com	7854961338	2	5678	1234	flat no 203 laxmi narayan socity
Riya	Sharma	riya@gmail.com	7854961338	2	345	6789	lakeside
Riya	Sharma	riya@gmail.com	7854961338	2	2345	7800	Sawmi samartha
Riya	Sharma	riya@gmail.com	7854961338	2	987	78654	siddesh residency
Riya	Sharma	riya@gmail.com	7854961338	2	45654	89098	tower1

10. CONCLUSION AND FUTURE SCOPE

- The NestFind web app has revolutionized the real estate sector by eliminating middlemen, allowing property owners and tenants or buyers to interact directly.

- This approach reduces cost and simplifies the process of renting, buying, or selling properties.

- The platform enhances user experience with features like verified listings, virtual tours, and advanced filtering options, making it a trusted solution for real estate transactions.

- By leveraging technology, it has streamlined what is often a complex and time-consuming process.