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## **1. Introduction:**

### **1.1 Document Purpose:**

This document communicates the business requirements and scope for developing Home Rental. The scope of this document is to define the functional and non-functional requirements, business rules and other constraint requirements.

### **1.2 Project Background:**

When someone is relocating to a new location he/she faces issues for accommodation & living. As well as Property owners don't have any specific platform to advertise their properties. There is no transparency between tenants & property owner. No facility is present for the tenants and buyers to know the property rates at different locations. Property owners also finds difficulty to target right customers where they can rent their properties for achieving high profits.

### **1.3 Aim & Objectives:**

The project's goal is to create a user-friendly and efficient online platform for everyone to rent different properties on a single place. Tenants can access detailed information about the property and can compare different properties to find suitable one. Once selection of property is done, property owners & customers can directly communicate and can make a deal without any involvement of broker.

## **2. Business Requirements Overview:**

- Home Rental is the online web platform.
- There are mainly two types of users. Two types of users- owner who want to rent property & tenant who are looking for property to live.
- Property owners can list down their properties on website and can find expected tenant.
- Tenants can search for properties available on the website and even the details about the property owners.
- Home Rental provides the transparency which makes business between tenant and the property owner more easy.
- Administrators have access to manage the application.
- Home Rental will be opened to the global, but in the phase 1, the main target is in the India.

## **3. Functional Requirements Overview:**

The Home Rental consists of three modules described below.

1. Administrator Module
2. Tenant Module
3. Home Owner Module

### **3.1 Administrator Module**

- Validate properties & accounts.
- Admin can remove invalid properties & accounts.

### **3.2 Tenant Module**

- Tenant can register and create his own account.
- Tenant can compare multiple properties & will be able to choose property according to his requirement.
- Tenant can rent a property by contacting property owner.
- Tenant can request for owner information as well as property information.

### **3.3 Home Owner Module**

- Property owner can register and create his own account.
- Home Rental provides the function which allows property owners to publish his property for renting.
- Owner can remove his property from listing .
- Owner can see and manage customer requests who are interested in respective property.
- Owner can confirm deal with customer privately.
- Owner can see and manage his properties.
- He /She is able to browse existing Market price.

#### **4. Non-Functional Requirement:**

- The website should use a decent look, feel, and color.
- Users will not have limitations for accessing the application through the Internet. The portal being an internet application, customer will get support anytime on the website.
- 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 customer can find home easily with our home rental web support.
- Website will suggest to customers about the homes through the images.

## 5. Use-Case Diagram

### 5.1 Admin:

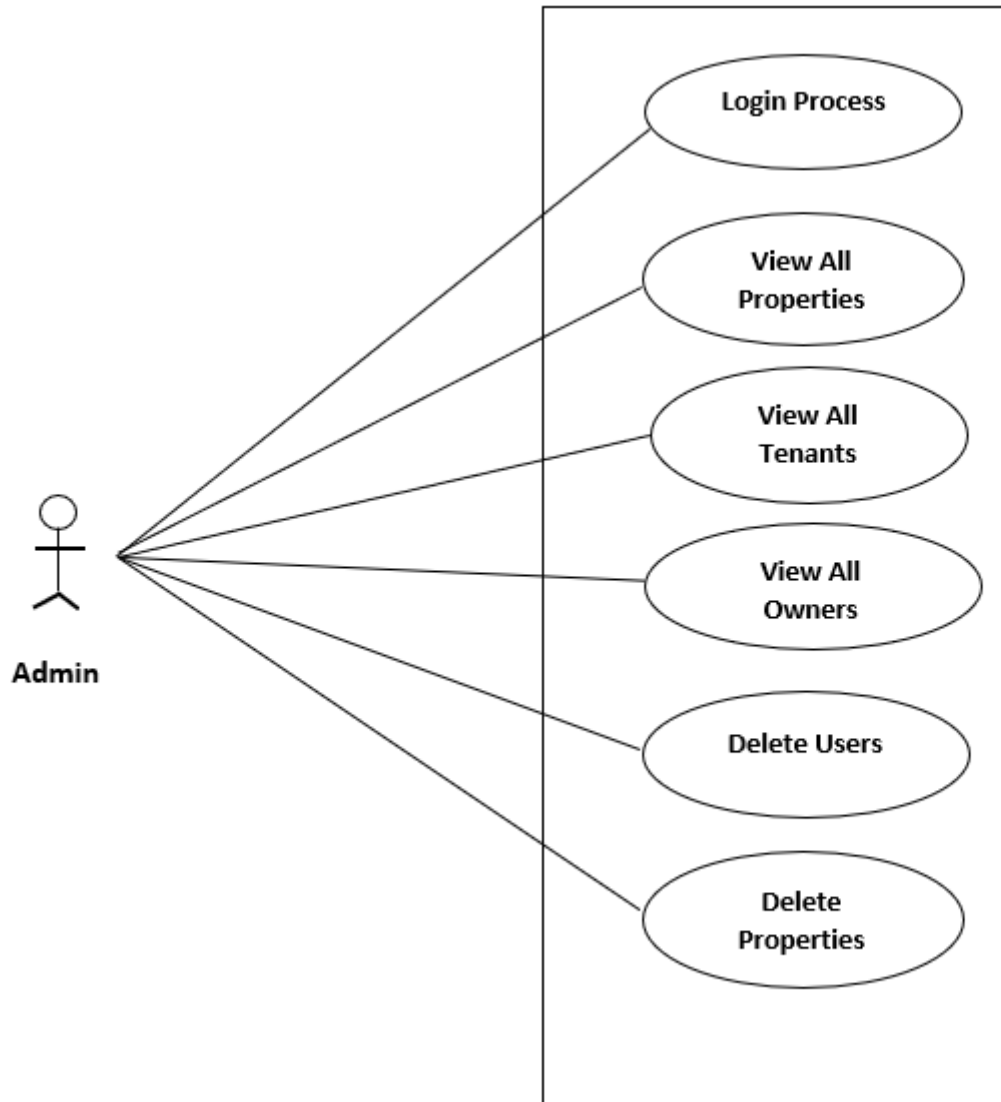


Fig. Use-Case Diagram for Admin



## 5.2 Owner:

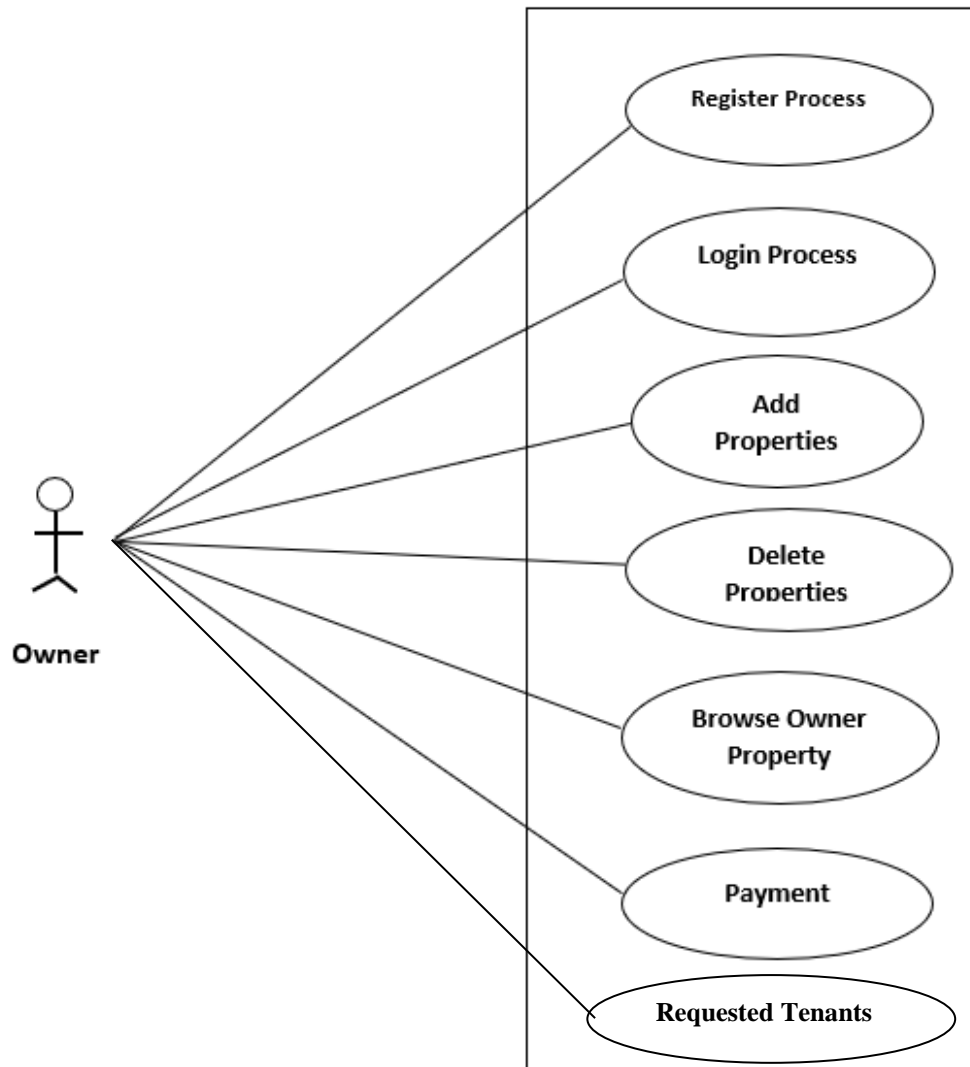


Fig. Use-Case Diagram for Owner

### 5.3 Tenant:

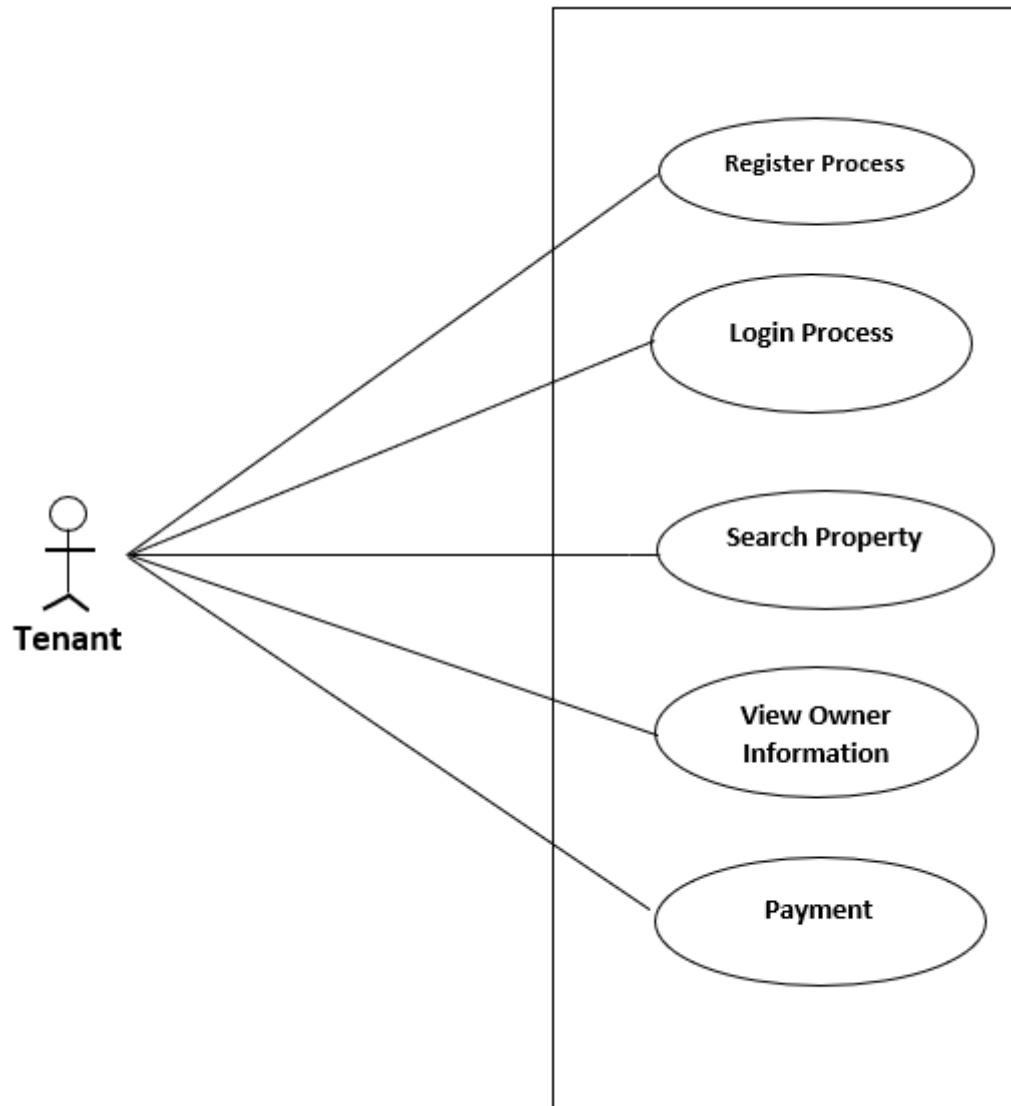


Fig. Use-Case Diagram for Tenant

## 6. Database Design:

### 1] Login table:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
email	varchar(255)	NO	UNI	NULL	
password	varchar(255)	NO		NULL	
role_id	int	YES	FK	NULL	Role(id)
Status	tinyint	NO		NULL	

### 2] Tenants:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
fname	varchar(255)	NO		NULL	
lname	varchar(255)	NO		NULL	
area_id	int	YES	FK	NULL	Area(id)
no_of_req_rem	int	YES		NULL	
login_id	int	YES	FK	NULL	Login(id)
payment_id	int	YES	FK	NULL	Payment(id)
address	varchar(255)	NO		NULL	
contact_no	varchar(20)	NO		NULL	

### 3] City:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	

#### 4] Owners:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
fname	varchar(255)	NO		NULL	
lname	varchar(255)	NO		NULL	
area_id	int	YES	FK	NULL	Area(id)
add_property_request_rem	int	YES		NULL	
login_id	int	YES	FK	NULL	Login(id)
payment_id	int	YES	FK	NULL	Payment(id)
address	varchar(255)	NO		NULL	
contact_no	varchar(20)	YES		NULL	

#### 5] Area:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	
pincode	varchar(255)	NO		NULL	
city_id	int	YES	FK	NULL	City(id)

#### 6] Role:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	

## 7] Payment:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
login_id	int	yes	FK	NULL	Login(id)
subscription_id	int	yes	FK	NULL	Subscription(id)
date	date	YES		NULL	
amount	decimal(10,2)	YES		NULL	
transaction	varchar(255)	YES		NULL	

## 8] Subscription:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
no_of_requests	int	NO		NULL	
amount	decimal(10,2)	NO		NULL	
no_of_properties	int	NO		NULL	

## 9] Property:-

Field	Type	Null	Key	Default	Extra
id	Int	NO	PRI	NULL	auto_increment
owner_id	int	YES	FK	NULL	Owners(id)
area_id	int	YES	FK	NULL	Area(id)
property_type_id	int	YES	FK	NULL	Property_Type(id)
property_name	varchar(255)	YES		NULL	
pdesc	text	YES		NULL	
price	decimal(10,2)	YES		NULL	
Deposit	decimal(10,2)	YES		NULL	

### 10] Property\_Type Table :-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	

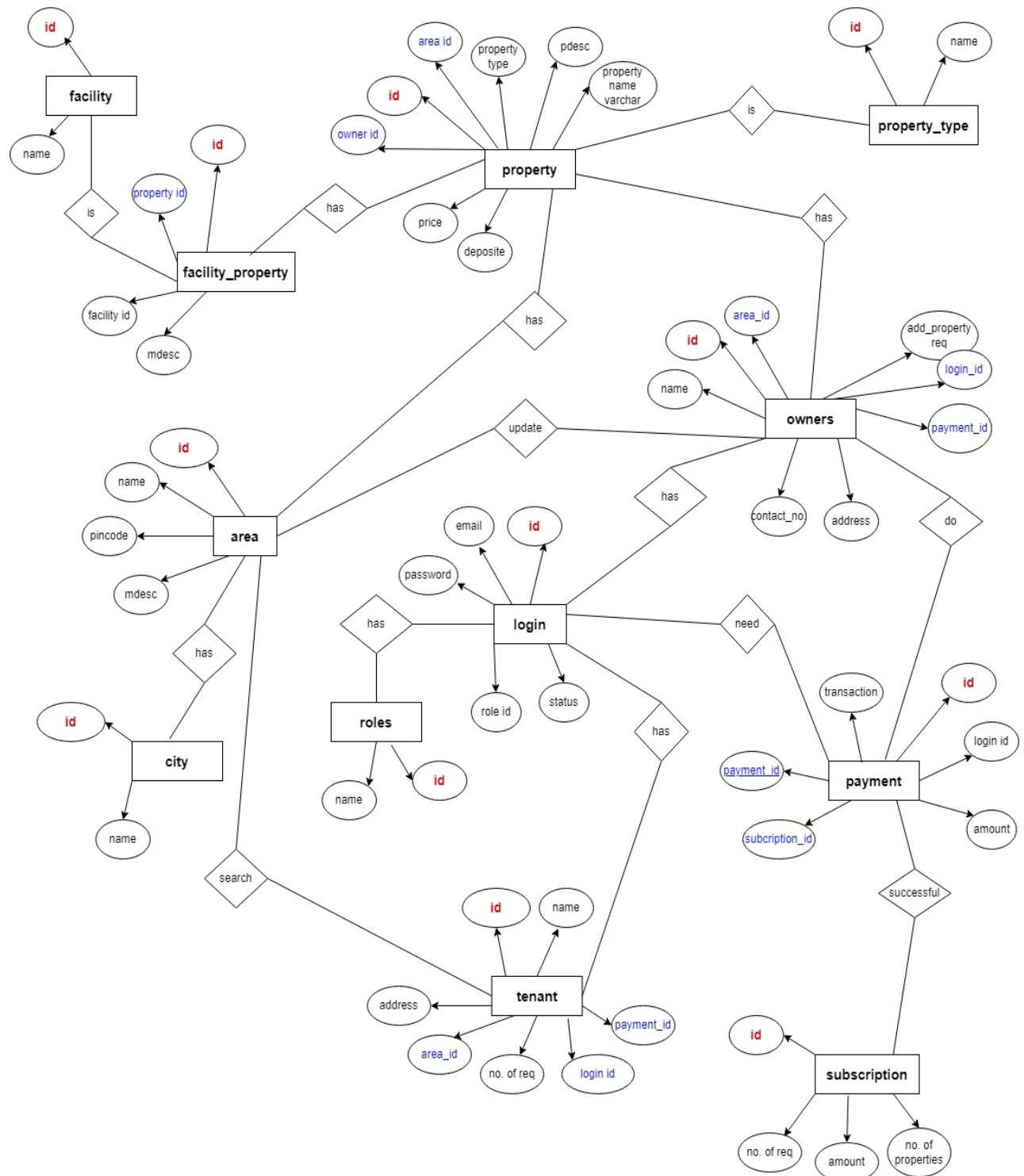
### 11] Facility:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
name	varchar(255)	NO		NULL	

### 12]Facility Property:-

Field	Type	Null	Key	Default	Extra
id	int	NO	PRI	NULL	auto_increment
property_id	int	YES	FK	NULL	Property(id)
facility_id	int	YES	FK	NULL	Facility(id)
mdesc	varchar(255)	YES		NULL	

## 7. ER-Diagram:

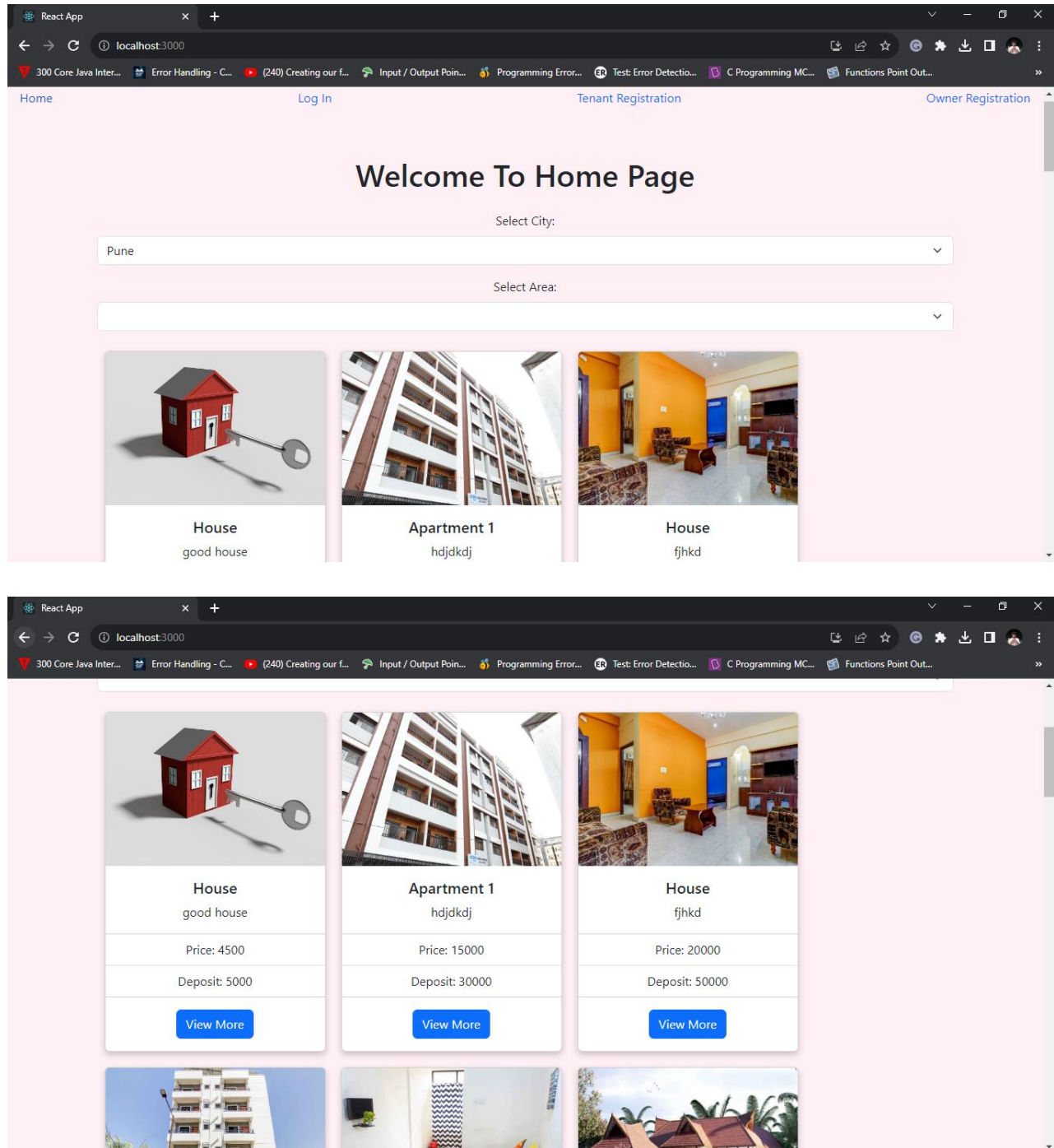


### E-R diagram shows database of Home Rental System

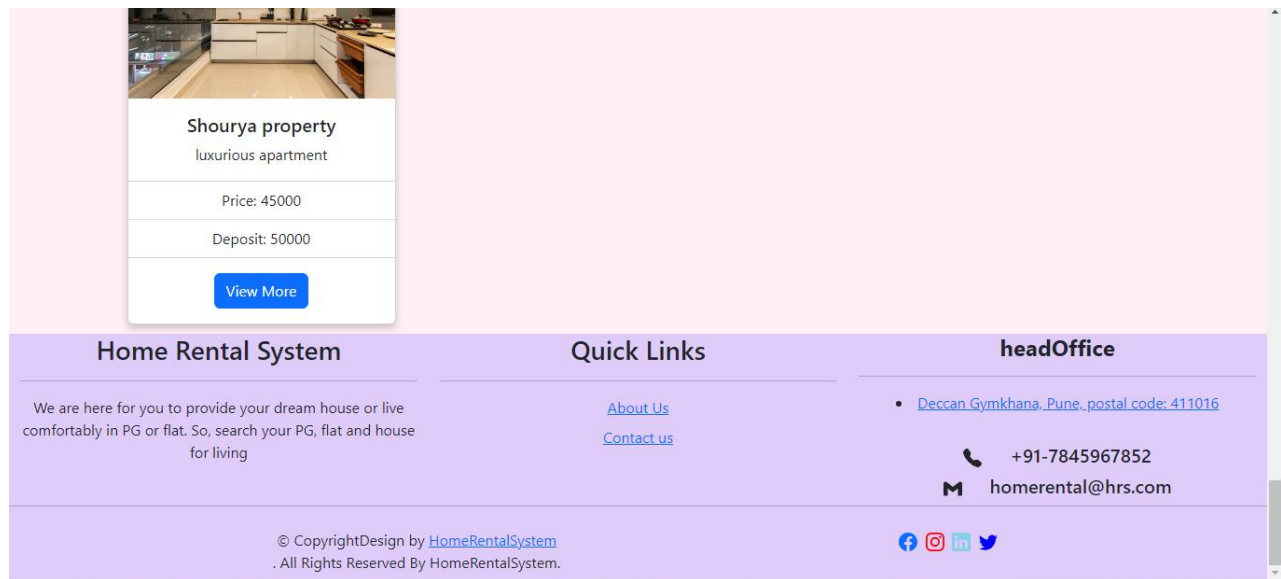
## 8. Snapshots:

### 8.1 Home Page:

Following snapshot shows the Home page for Home Rental System before Login.





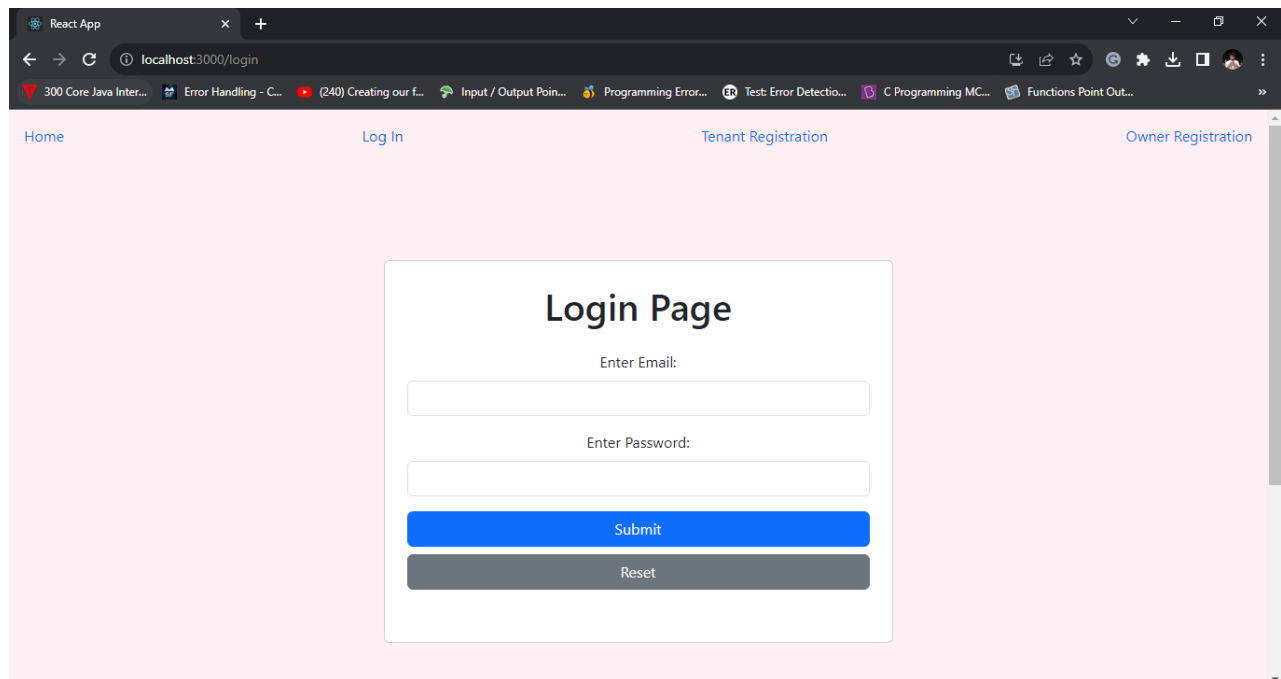


This page contains following controls

- Home
- Log In
- Tenant Registration
- Owner Registration

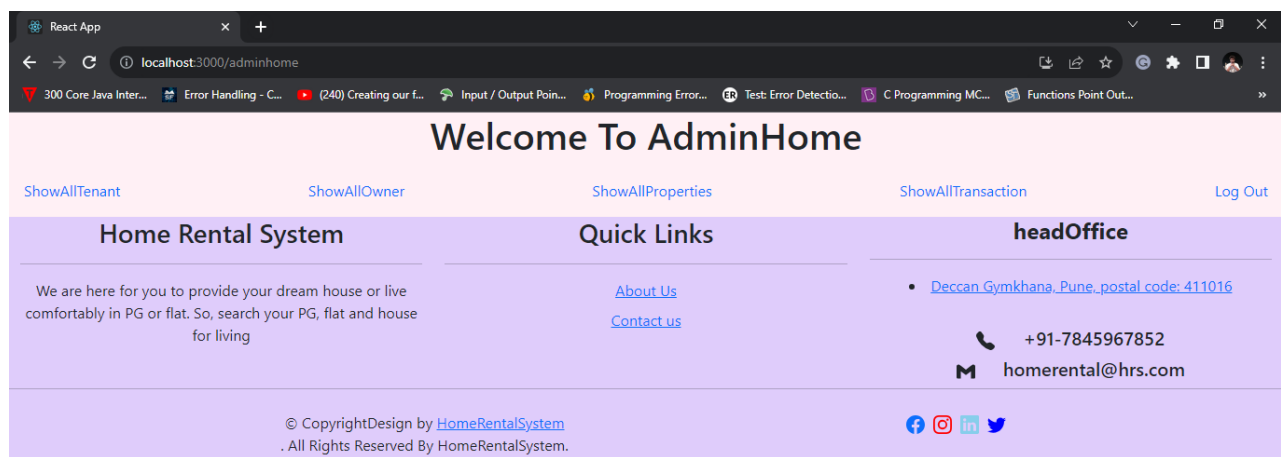
This page also contains footer consisting information about the website and contact us details.

## 8.2 Login Page



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/login'. The page has a light pink background. At the top, there are navigation links: 'Home', 'Log In', 'Tenant Registration', and 'Owner Registration'. The main content area features a white box with the title 'Login Page'. Inside this box, there are two input fields: 'Enter Email:' and 'Enter Password:'. Below these fields are two buttons: a blue 'Submit' button and a grey 'Reset' button.

## 8.3 Admin



The screenshot shows a web browser window with the address bar displaying 'localhost:3000/adminhome'. The page has a light pink background. At the top, there is a large heading 'Welcome To AdminHome'. Below this, there are five navigation links: 'ShowAllTenant', 'ShowAllOwner', 'ShowAllProperties', 'ShowAllTransaction', and 'Log Out'. The main content area is divided into three columns. The first column is titled 'Home Rental System' and contains the text: 'We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living'. The second column is titled 'Quick Links' and contains two links: 'About Us' and 'Contact us'. The third column is titled 'headOffice' and contains a list item: 'Deccan Gymkhana, Pune, postal code: 411016', a phone icon with the number '+91-7845967852', and an email icon with the address 'homerental@hrs.com'. At the bottom of the page, there is a footer with the text: '© CopyrightDesign by HomeRentalSystem. All Rights Reserved By HomeRentalSystem.' and social media icons for Facebook, Instagram, LinkedIn, and Twitter.

## 8.3.1 Admin Home Page

React App

localhost:3000/getallproperties


300 Core Java Inter... Error Handling - C... (240) Creating our f... Input / Output Poin... Programming Error... Test: Error Detectio... C Programming MC... Functions Point Out...

ShowAllTenantShowAllOwnerShowAllPropertiesShowAllTransactionLog Out


Welcome Admin

Enter City Name:


Enter area Name:




House
good house
Price: 4500
Deposit: 5000




Apartment 1
hdjdkdj
Price: 15000
Deposit: 30000



House
fjhkd
Price: 20000
Deposit: 50000



Apartybsjd
Apartment 1
Price: 20000
Deposit: 25000



Shourya property
luxurious apartment
Price: 45000
Deposit: 50000
<a href="#">View More</a>

Home Rental System

We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living


Quick Links

[About Us](#)  
[Contact us](#)





headOffice

- [Deccan Gymkhana, Pune, postal code: 411016](#)

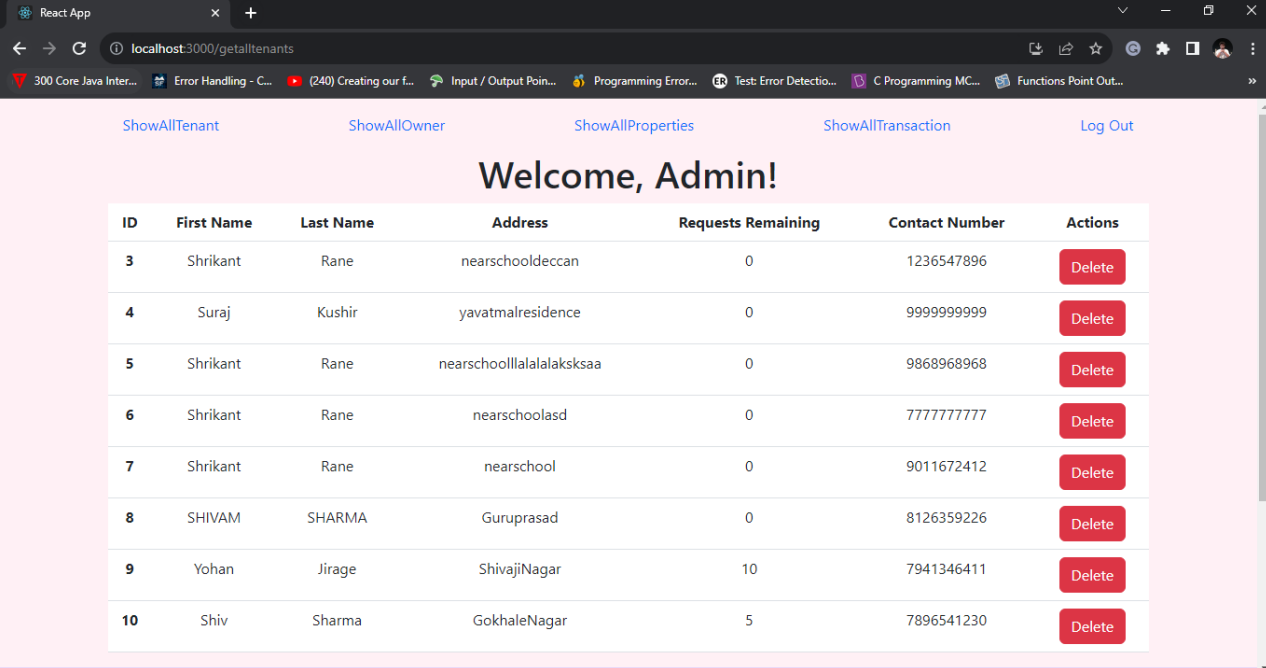
+91-7845967852

 [homerental@hrs.com](mailto:homerental@hrs.com)

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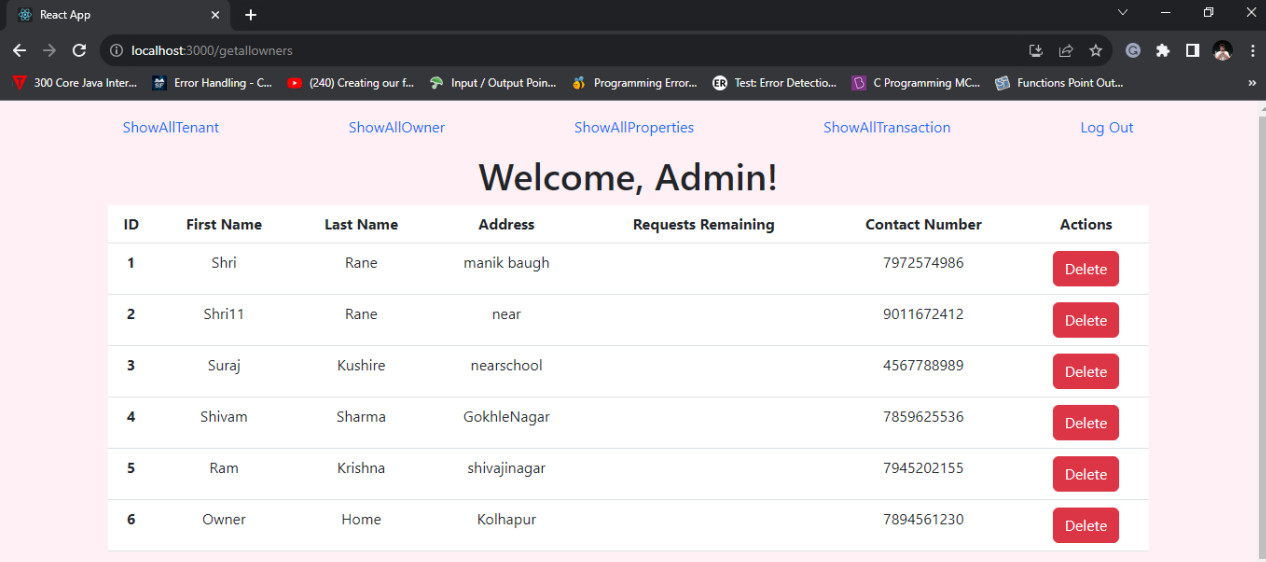


### 8.3.2 Admin - Show All Tenant Detail



ID	First Name	Last Name	Address	Requests Remaining	Contact Number	Actions
3	Shrikant	Rane	nearschooldeccan	0	1236547896	Delete
4	Suraj	Kushir	yavatmalresidence	0	9999999999	Delete
5	Shrikant	Rane	nearschoollalalalaksaa	0	9868968968	Delete
6	Shrikant	Rane	nearschoolasd	0	7777777777	Delete
7	Shrikant	Rane	nearschool	0	9011672412	Delete
8	SHIVAM	SHARMA	Guruprasad	0	8126359226	Delete
9	Yohan	Jirage	ShivajiNagar	10	7941346411	Delete
10	Shiv	Sharma	GokhaleNagar	5	7896541230	Delete

### 8.3.3 Admin - Show All Owner Details



ID	First Name	Last Name	Address	Requests Remaining	Contact Number	Actions
1	Shri	Rane	manik baugh		7972574986	Delete
2	Shri11	Rane	near		9011672412	Delete
3	Suraj	Kushire	nearschool		4567788989	Delete
4	Shivam	Sharma	GokhleNagar		7859625536	Delete
5	Ram	Krishna	shivajinagar		7945202155	Delete
6	Owner	Home	Kolhapur		7894561230	Delete



## 8.3.4 Transaction Details

The screenshot shows a web application interface for a Home Rental System. At the top, there are navigation links: [ShowAllTenant](#), [ShowAllOwner](#), [ShowAllProperties](#), [ShowAllTransaction](#), and [Log Out](#). The main heading is "Transaction History". Below it is a table with the following data:

ID	Email	Date	Amount
1	yohanbalasahab@gmail.com	2023-08-27	50
2	shiv@gmail.com	2023-08-31	125

Below the table, there are three columns of information:

- Home Rental System**: We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living.
- Quick Links**: [About Us](#), [Contact us](#)
- headOffice**: [Deccan Gymkhana, Pune. postal code: 411016](#), [+91-7845967852](#), [homerental@hrs.com](mailto:homerental@hrs.com)

At the bottom, there is a copyright notice: © CopyrightDesign by [HomeRentalSystem](#). All Rights Reserved By HomeRentalSystem. and social media icons for Facebook, Instagram, LinkedIn, and Twitter.

## 8.4 Owner

### 8.4.1 Add Owner Page

The screenshot shows a web application interface for the Owner Sign Up Form. At the top, there are navigation links: [Home](#), [Log In](#), [Tenant Registration](#), and [Owner Registration](#). The main heading is "Owner SignUp Form". Below it are the following input fields:

- Enter Email id:
- Enter Password:
- Enter First name:
- Enter Last Name:
- Enter contact\_no No.:

React App

localhost:3000/ownerreg

300 Core Java Inter... Error Handling - C... (240) Creating our f... Input / Output Poin... Programming Error... Test: Error Detectio... C Programming MC... Functions Point Out...

Enter City Name: Enter Area Name:

Pune Gokhle Nagar

Enter Address line:

Submit Reset

**Home Rental System**

We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living

**Quick Links**

[About Us](#)  
[Contact us](#)

**headOffice**

- Deccan Gymkhana, Pune, postal code: 411016

+91-7845967852  
homerental@hrs.com

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Facebook Instagram LinkedIn Twitter

## 8.4.2 Owner Registration Payment Page

React App

localhost:3000/payment

300 Core Java Inter... Error Handling - C... (240) Creating our f... Input / Output Poin... Programming Error... Test: Error Detectio... C Programming MC... Functions Point Out...

Home Log In Tenant Registration Owner Registration

**owner@gmail.com**

**Payment**

**Welcome**

Enter Email ID:

owner@gmail.com

Enter No of Requests:

10

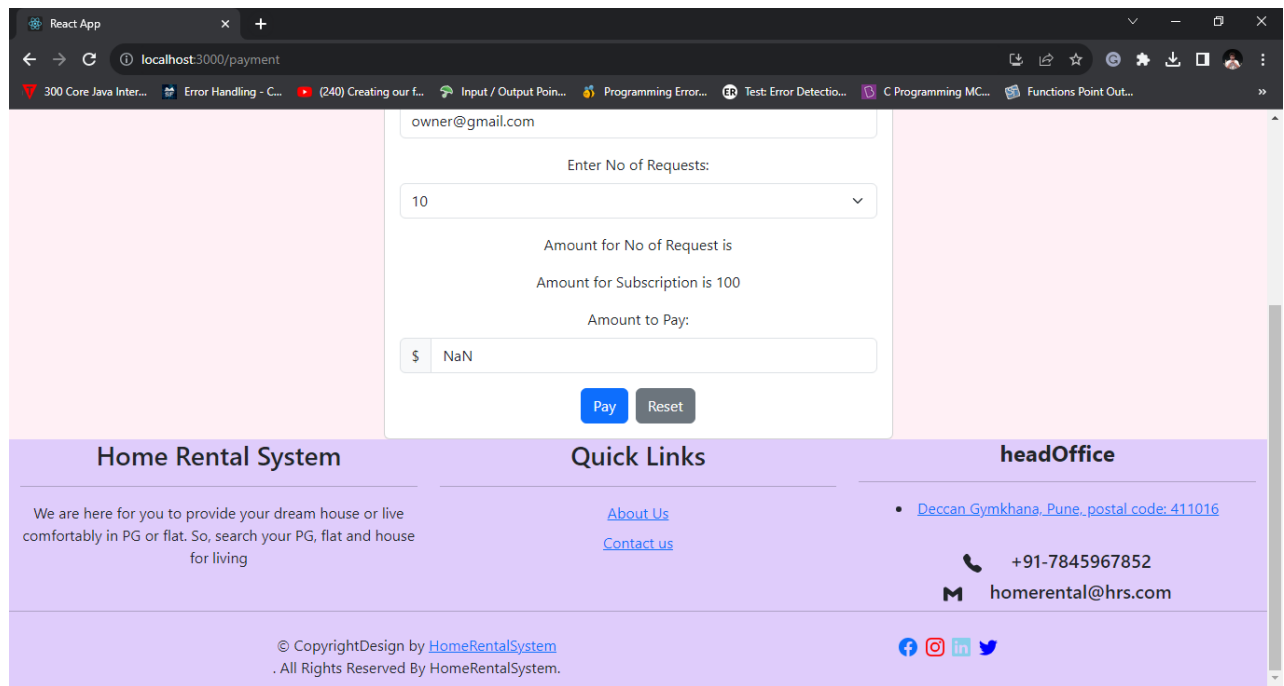
Amount for No of Request is

Amount for Subscription is 100

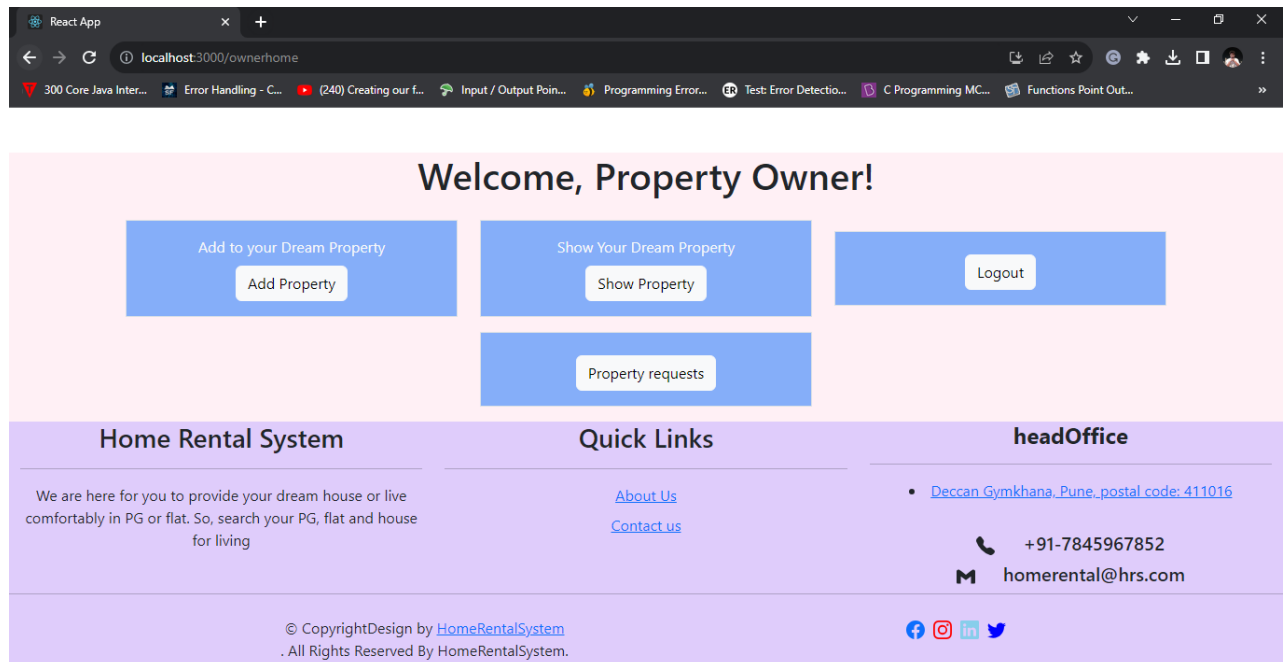
Amount to Pay:

\$ NaN

Pay Cancel



### 8.4.3 Owner Home Page





### 8.4.4 Owner - Property Information Page

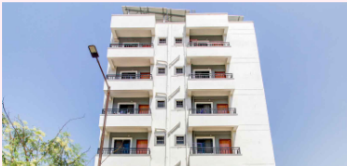
React App

localhost:3000/ownerinfo

Owner Information


Name	Suraj Kushire
Contact No	4567788989
Owner Email	suraj12@gmail.com
Address	nearschool
Area Name	Wadhwa kalyan
City Name	Mumbai

Property Information

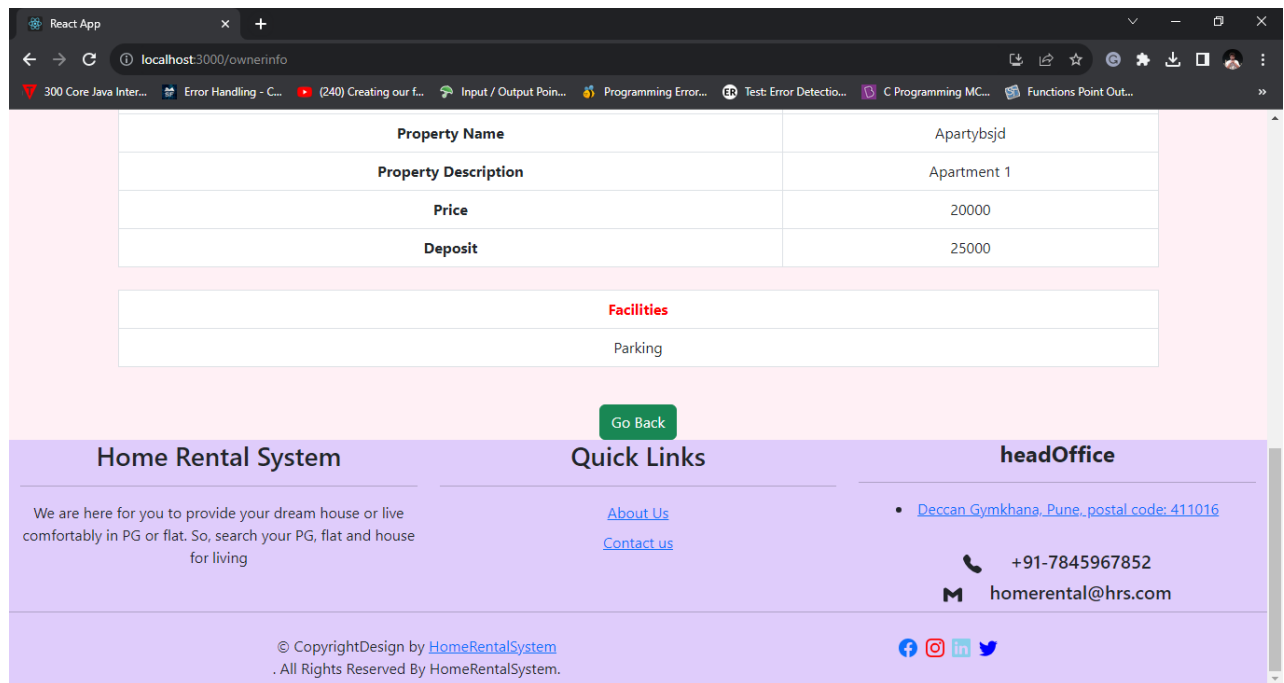


React App

localhost:3000/ownerinfo



Property Area Name	Deccan
Property Area Pincode	411004
City	Pune
Property Type	Apartment
Property Name	Apartybsjd
Property Description	Apartment 1
Price	20000
Deposit	25000



## 8.4.5 Owner Add Property

The screenshot shows a web browser at localhost:3000/addproperty. The form consists of several input fields and a dropdown menu:

- Enter Property Name:
- Enter Property description :
- Enter Price :
- Enter deposit Amount :
- Enter facility Name:  (Dropdown menu showing options: Gym, Pool, Parking, Lift)

React App

localhost:3000/addproperty

Enter facility Name: Gym, Pool, Parking, Lift

Upload Image :

Choose File No file chosen

Submit Reset back To OwnerHome

**Home Rental System**

We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living

**Quick Links**

[About Us](#)  
[Contact us](#)

**headOffice**

- [Deccan Gymkhana, Pune, postal code: 411016](#)

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homerental@hrs.com

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[f](#) [i](#) [in](#) [t](#)

## 8.4.6 Owner - Tenant Requested for owner information

React App

localhost:3000/propreq

Add Property Show My Property Property Request Owner Home Log Out

**Tenant Information**

**Tenant IDs**

First Name	Last Name	Email	Contact No	Tenant Id	Property Id
------------	-----------	-------	------------	-----------	-------------

**Home Rental System**

We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living

**Quick Links**

[About Us](#)  
[Contact us](#)

**headOffice**

- [Deccan Gymkhana, Pune, postal code: 411016](#)

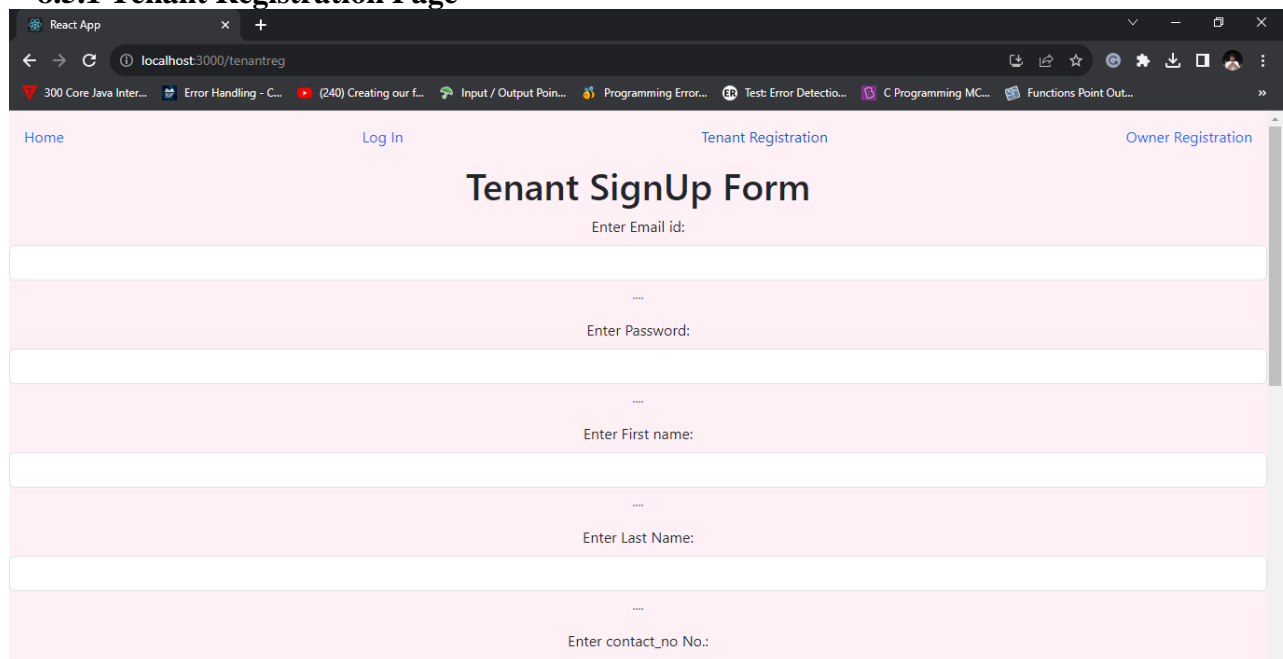
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homerental@hrs.com

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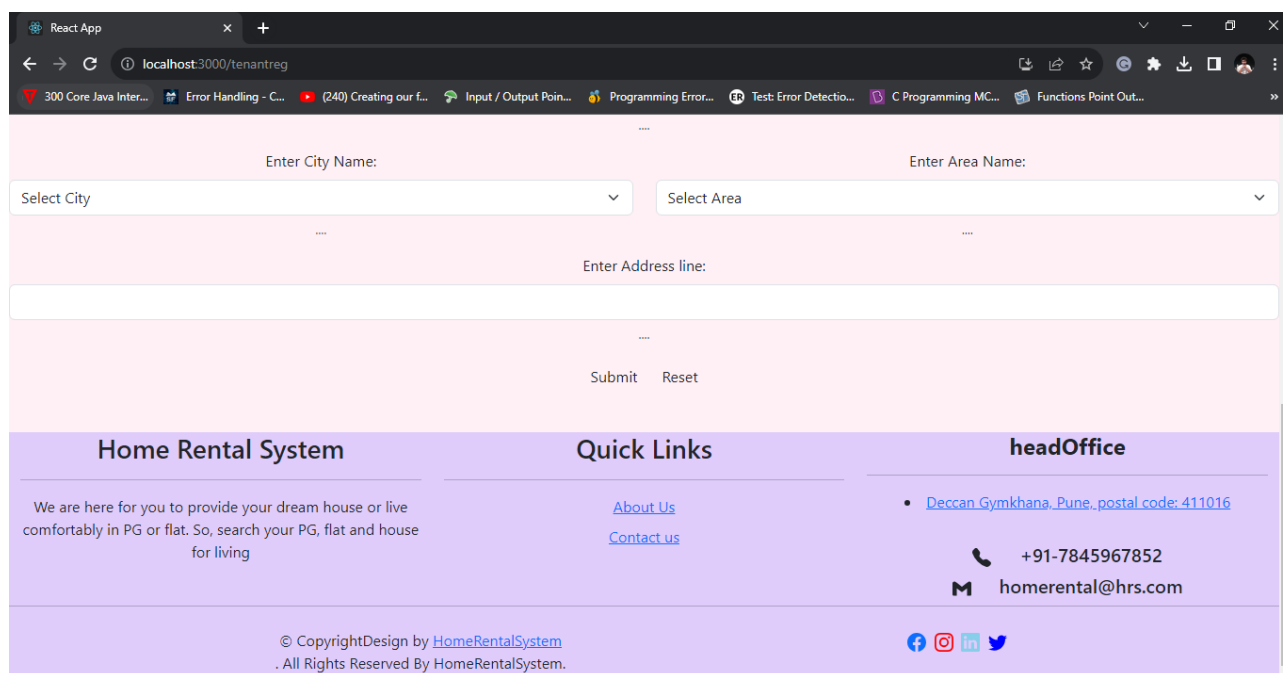
[f](#) [i](#) [in](#) [t](#)

## 8.5 Tenant

### 8.5.1 Tenant Registration Page



The screenshot shows a web browser window with the URL `localhost:3000/tenantreg`. The page has a navigation bar with links: Home, Log In, Tenant Registration (active), and Owner Registration. The main heading is "Tenant SignUp Form". Below it, there are five input fields with labels: "Enter Email id:", "Enter Password:", "Enter First name:", "Enter Last Name:", and "Enter contact\_no No:". Each input field is followed by a small "\*\*\*\*" placeholder text.



The screenshot shows the continuation of the Tenant Registration Page. It includes two dropdown menus for "Enter City Name:" and "Enter Area Name:". Below these is an input field for "Enter Address line:". At the bottom of the form, there are "Submit" and "Reset" buttons. The footer section is divided into three columns: "Home Rental System" with a description, "Quick Links" with links to "About Us" and "Contact us", and "headOffice" with contact information including a phone number (+91-7845967852), an email address (homerental@hrs.com), and social media icons for Facebook, Instagram, LinkedIn, and Twitter. The footer also contains copyright information: "© CopyrightDesign by HomeRentalSystem . All Rights Reserved By HomeRentalSystem."

## 8.5.2 Tenant Payment Page

The screenshot displays a web application running on localhost:3000/payment. The page has a light pink background and a white central form area. The form is titled "shiv@gmail.com" and "Payment Welcome". It contains the following fields and elements:

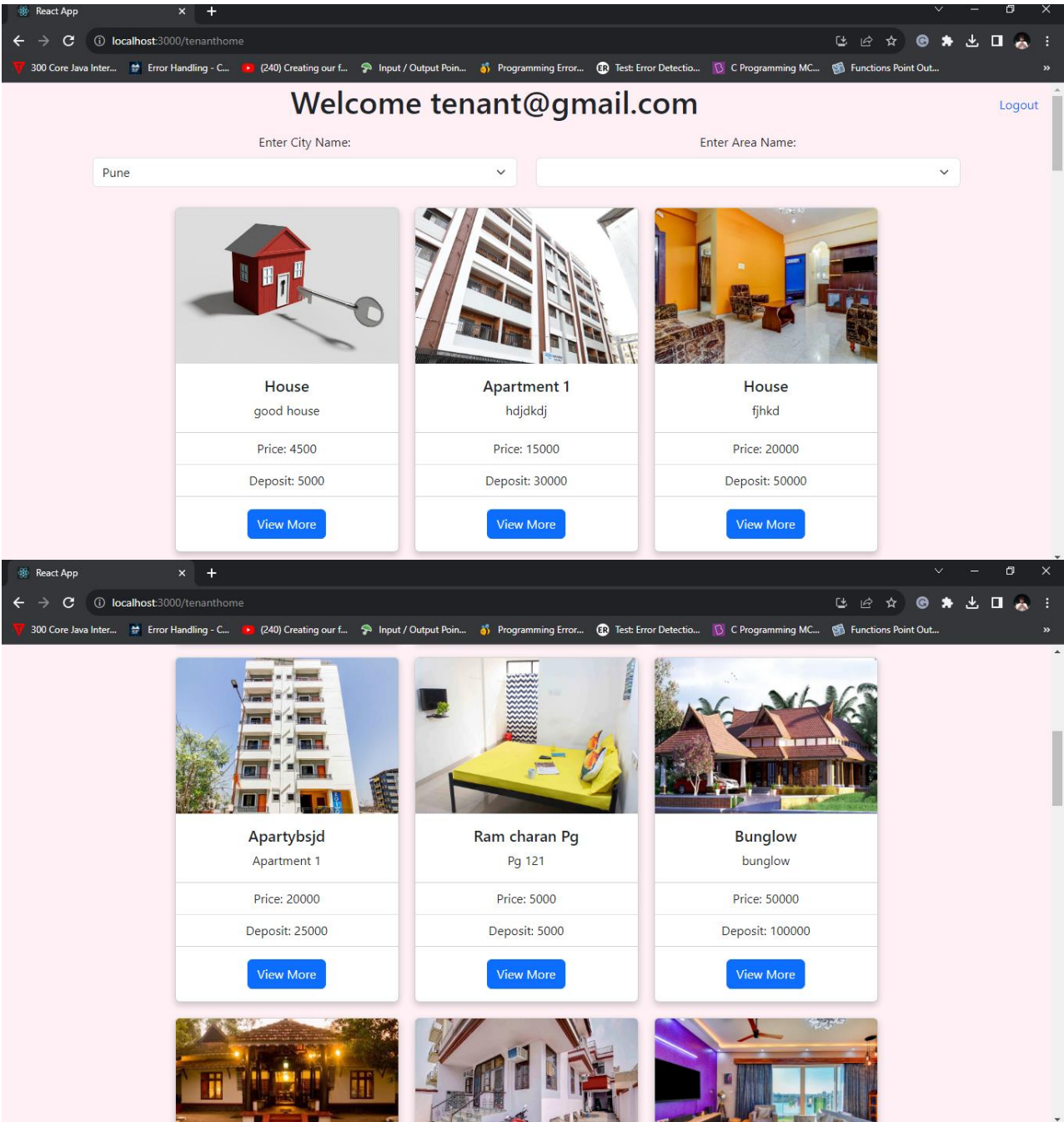
- Enter Email ID:** A text input field containing "shiv@gmail.com".
- Enter No of Requests:** A dropdown menu with "10" selected.
- Amount for No of Request is** and **Amount for Subscription is 100**: Text labels indicating the amount for the selected number of requests.
- Amount to Pay:** A text input field containing "\$ NaN".
- Buttons:** "Pay" (blue) and "Reset" (grey).

The footer is a purple bar with three columns:

- Home Rental System:** "We are here for you to provide your dream house or live comfortably in PG or flat. So, search your PG, flat and house for living".
- Quick Links:** [About Us](#) and [Contact us](#).
- headOffice:** [Deccan Gymkhana, Pune, postal code: 411016](#), [+91-7845967852](#), and [homerental@hrs.com](#).

The bottom of the footer contains copyright information: "© CopyrightDesign by [HomeRentalSystem](#). All Rights Reserved By HomeRentalSystem." and social media icons for Facebook, Instagram, LinkedIn, and Twitter.

### 8.5.3 Tenant Home Page



## 8.5.4 Tenant Owner - Property Details


React App

localhost:3000/ownerinfo

### Owner Information

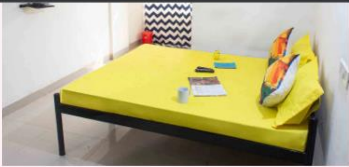
Name	Suraj Kushire
Contact No	4567788989
Owner Email	suraj12@gmail.com
Address	nearschool
Area Name	Wadhwa kalyan
City Name	Mumbai

### Property Information



React App

localhost:3000/ownerinfo



Property Area Name	Gokhle Nagar
Property Area Pincode	411016
City	Pune
Property Type	PG
Property Name	Ram charan Pg
Property Description	Pg 121
Price	5000
Deposit	5000

Facilities

## 8. CONCLUSION AND FUTURE SCOPE

The Home Rental project presents a comprehensive solution to address the challenges faced by both tenants and property owners in the real World. By providing a user-friendly online platform, it streamlines the rental process, enhances transparency, and fosters direct communication between tenants and property owners. The project offers a range of benefits, including time and cost savings, market insights, and global accessibility. As it expands and evolves, it has the potential to transform the way people find and rent properties, offering convenience and efficiency to users in the dynamic world of real estate.

Our system provides a straightforward and user-friendly platform that allows tenants to effortlessly search for flats and homes using images, based on their specified city and area preferences.

### **Future extensions for the Home Rental project could include:**

**Mobile App Development:** Creating mobile apps for Android and iOS to enhance user accessibility and engagement.

**Payment Integration:** Integrating payment gateways for seamless rental transactions and secure online payments.

**Advanced Search Filters:** Implementing advanced search options like filtering by amenities, location, and price range.

**Rating and Reviews:** Adding a rating and review system for properties and tenants to build trust within the community.