



Project Name: Home Rental System
Branch PG-DAC March-2023

Documentation On

“Home Rental System”
PG-DAC March 2023

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Submitted By :
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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 save property for future reference in his collection.
- Tenant can see and manage his previous deals with property owners.
- Tenant can post feedback about property.

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.
 - Owner can see and manage his previous deals with old customers.
 - 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:

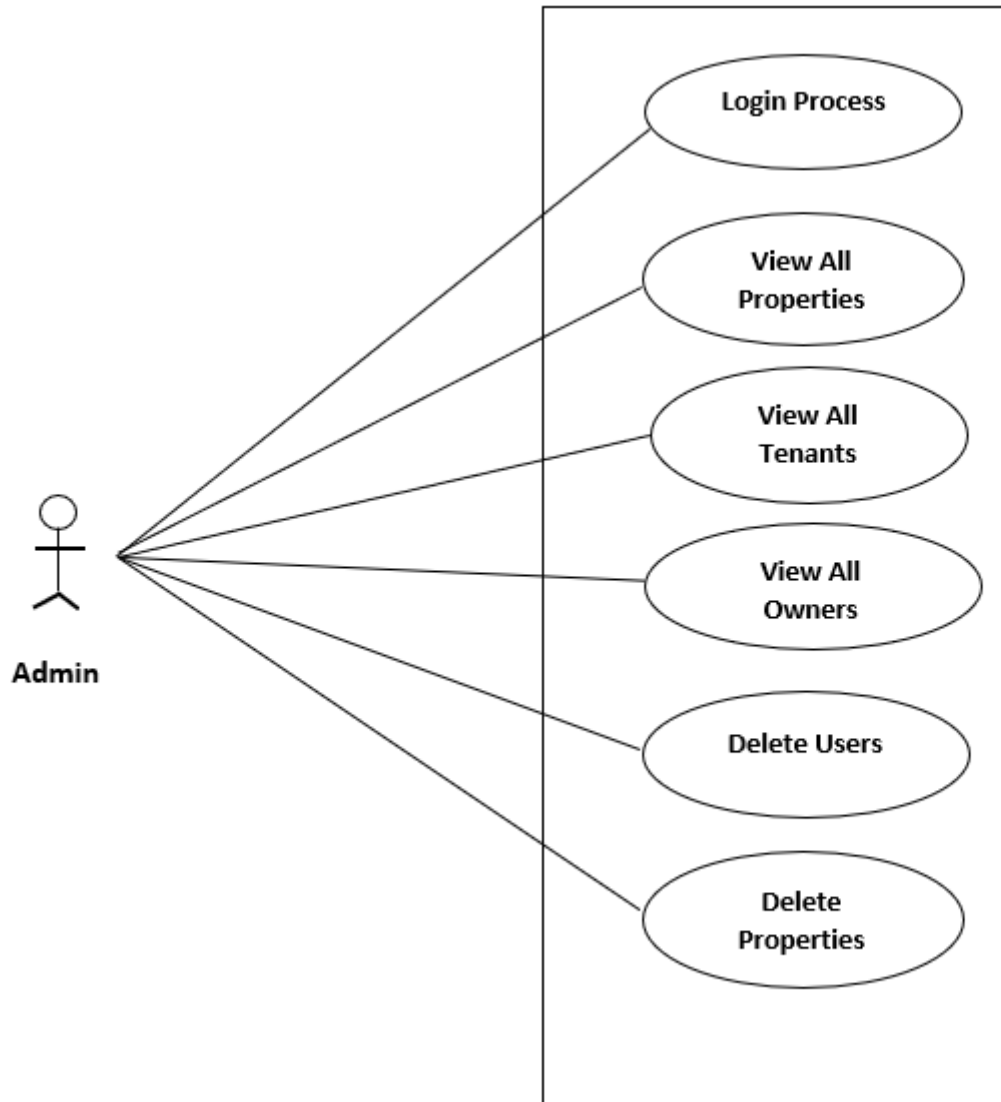


Fig. Use-Case Diagram for Admin

5.2 Owner:

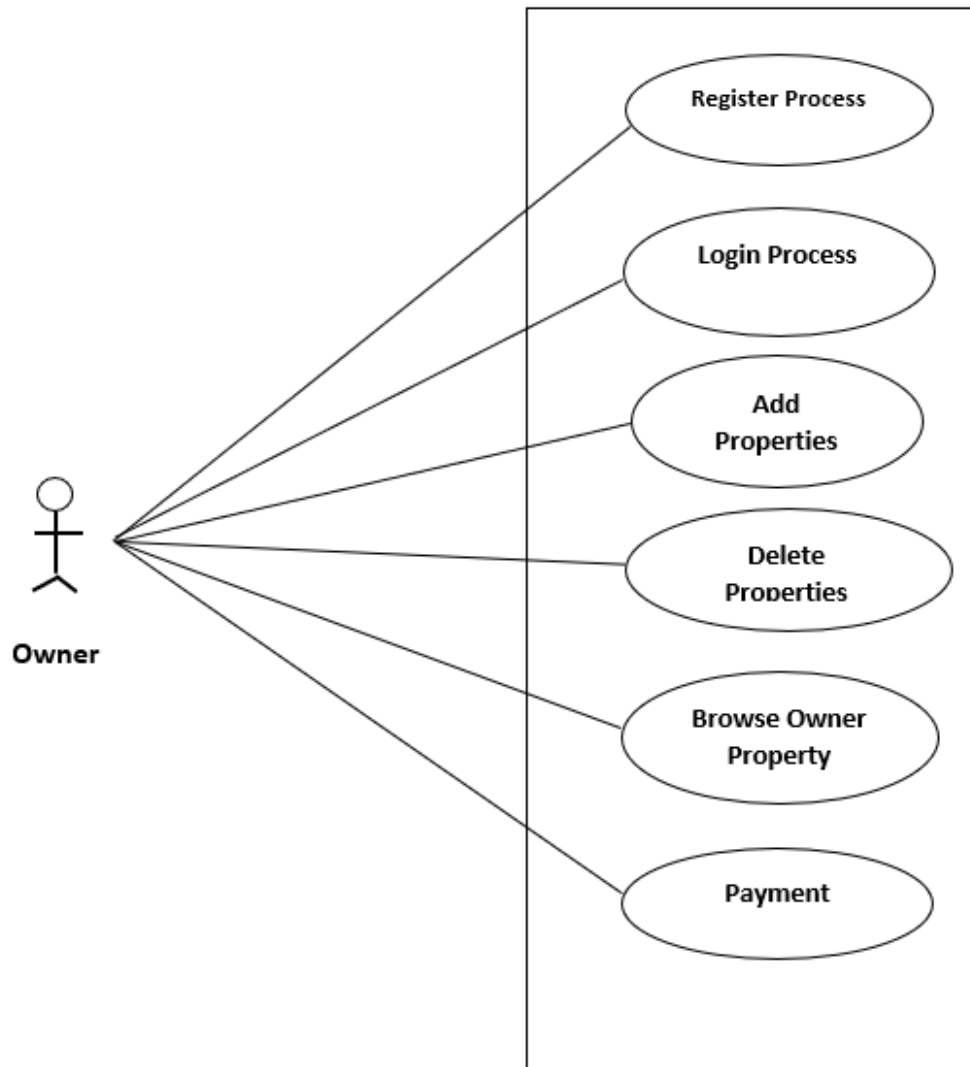


Fig. Use-Case Diagram for Owner

5.3 Tenant:

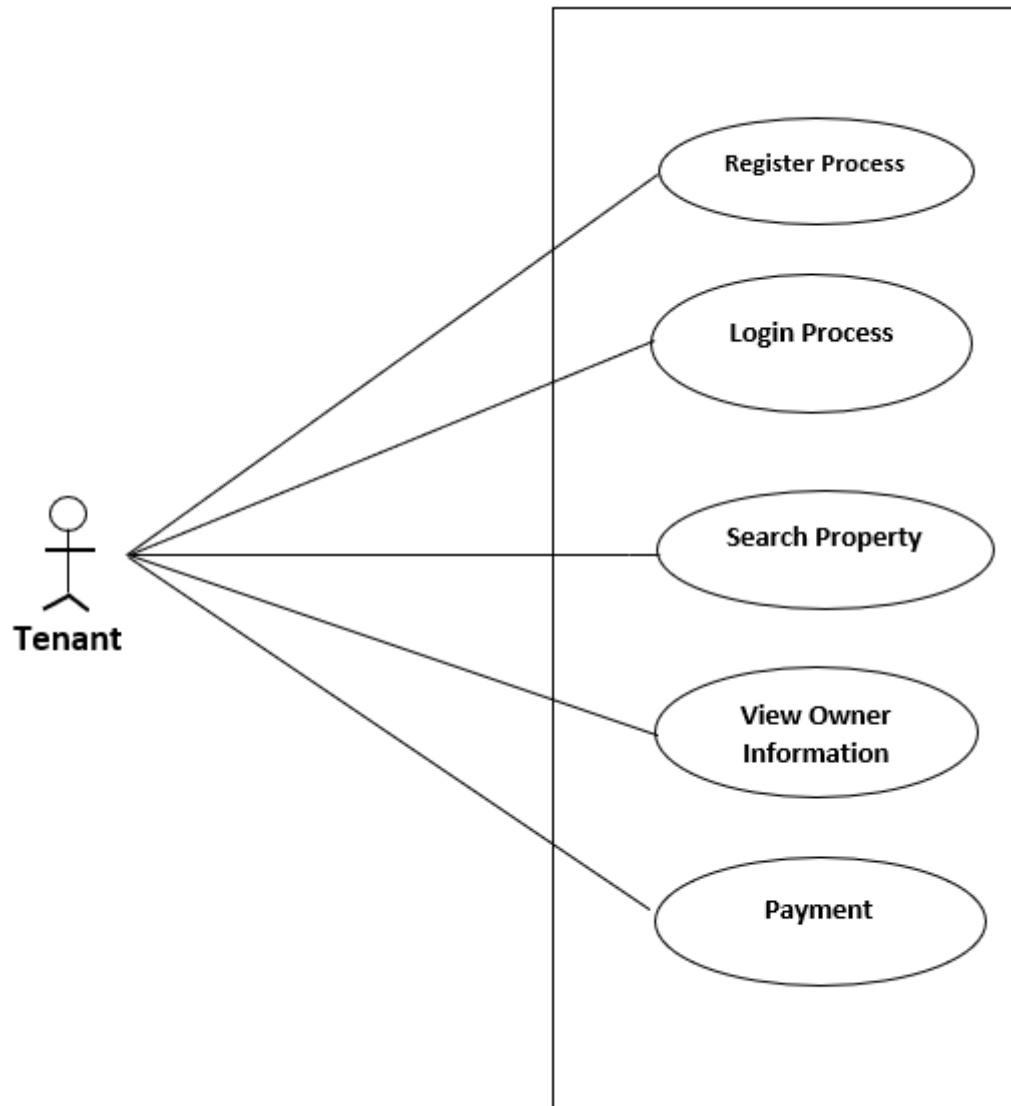


Fig. Use-Case Diagram for Tenant

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	MUL	NULL	
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	MUL	NULL	
no_of_req_rem	int	YES		NULL	
login_id	int	YES	MUL	NULL	
payment_id	int	YES	MUL	NULL	
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	MUL	NULL	
add_property_request_rem	int	YES		NULL	
login_id	int	YES	MUL	NULL	
payment_id	int	YES	MUL	NULL	
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	MUL	NULL	

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	MUL	NULL	
subscription_id	int	yes	MUL	NULL	
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	MUL	NULL	
area_id	int	YES	MUL	NULL	
property_type_id	int	YES	MUL	NULL	
property_name	varchar(255)	YES		NULL	
pdesc	text	YES		NULL	
price	decimal(10,2)	YES		NULL	
Deposit	decimal(10,2)	YES		NULL	

10] Property Table :-

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

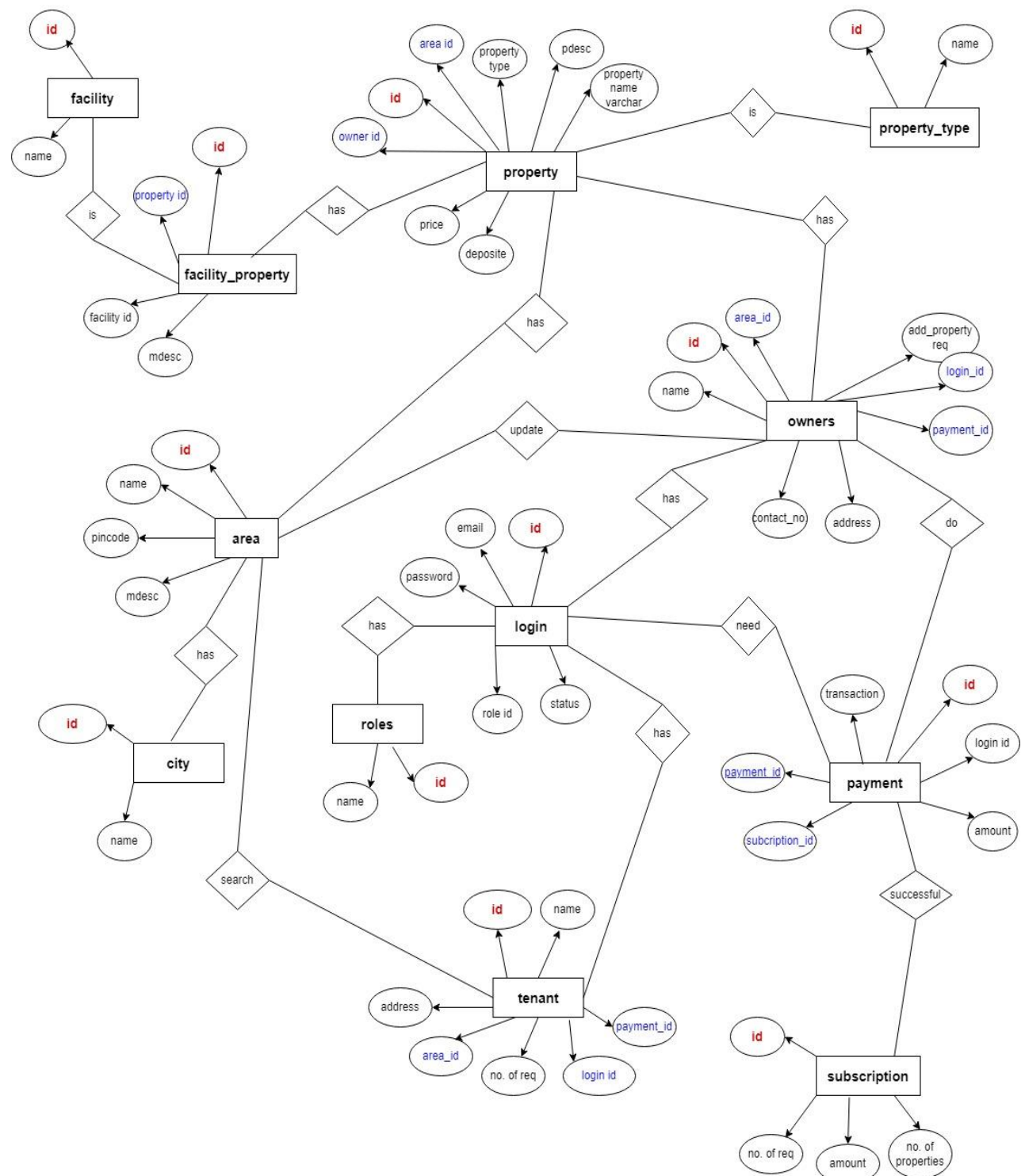
11] Facility:-

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	MUL	NULL	
facility_id	int	YES	MUL	NULL	
mdesc	varchar(255)	YES		NULL	

7. ER-Diagram:

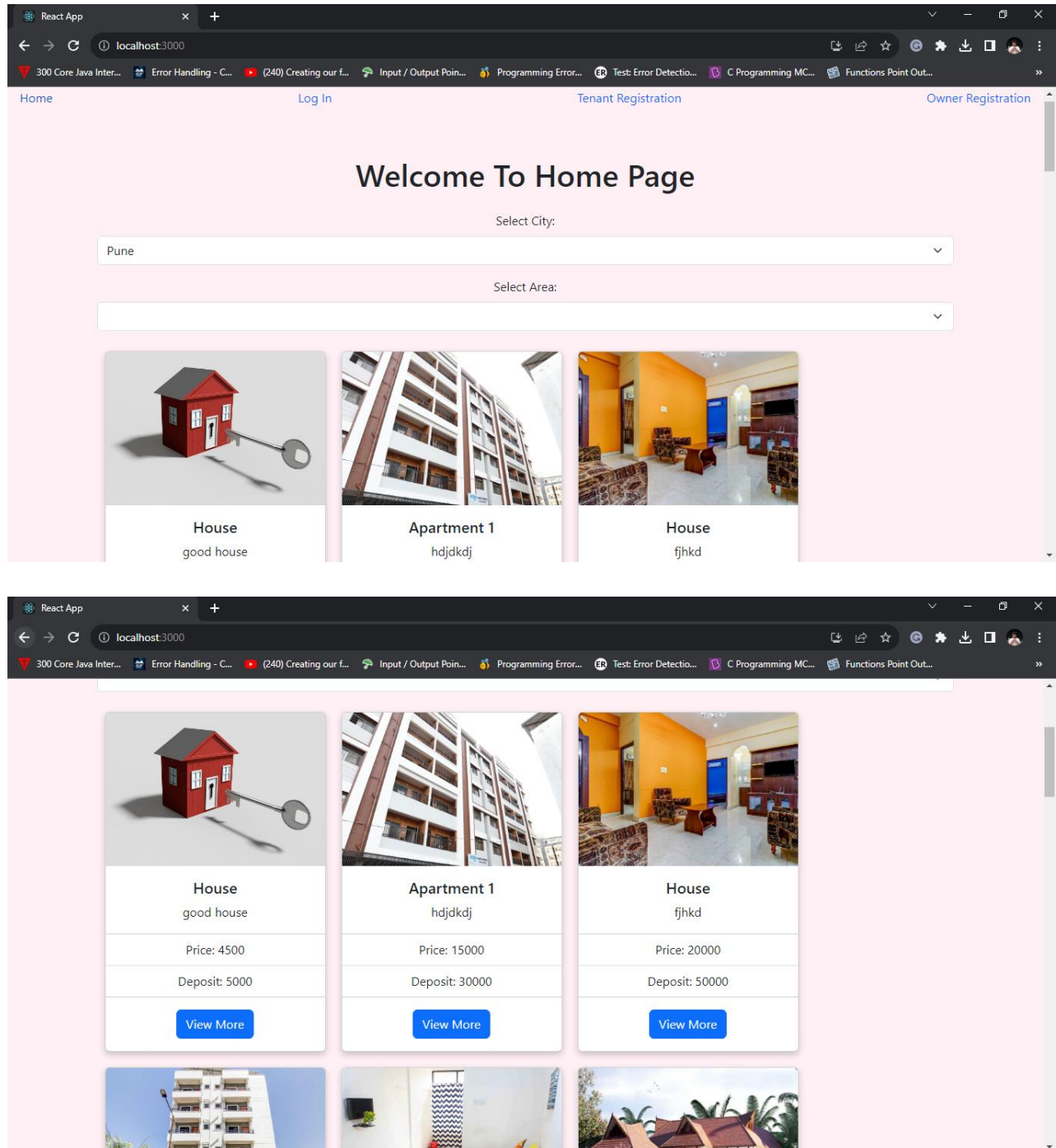


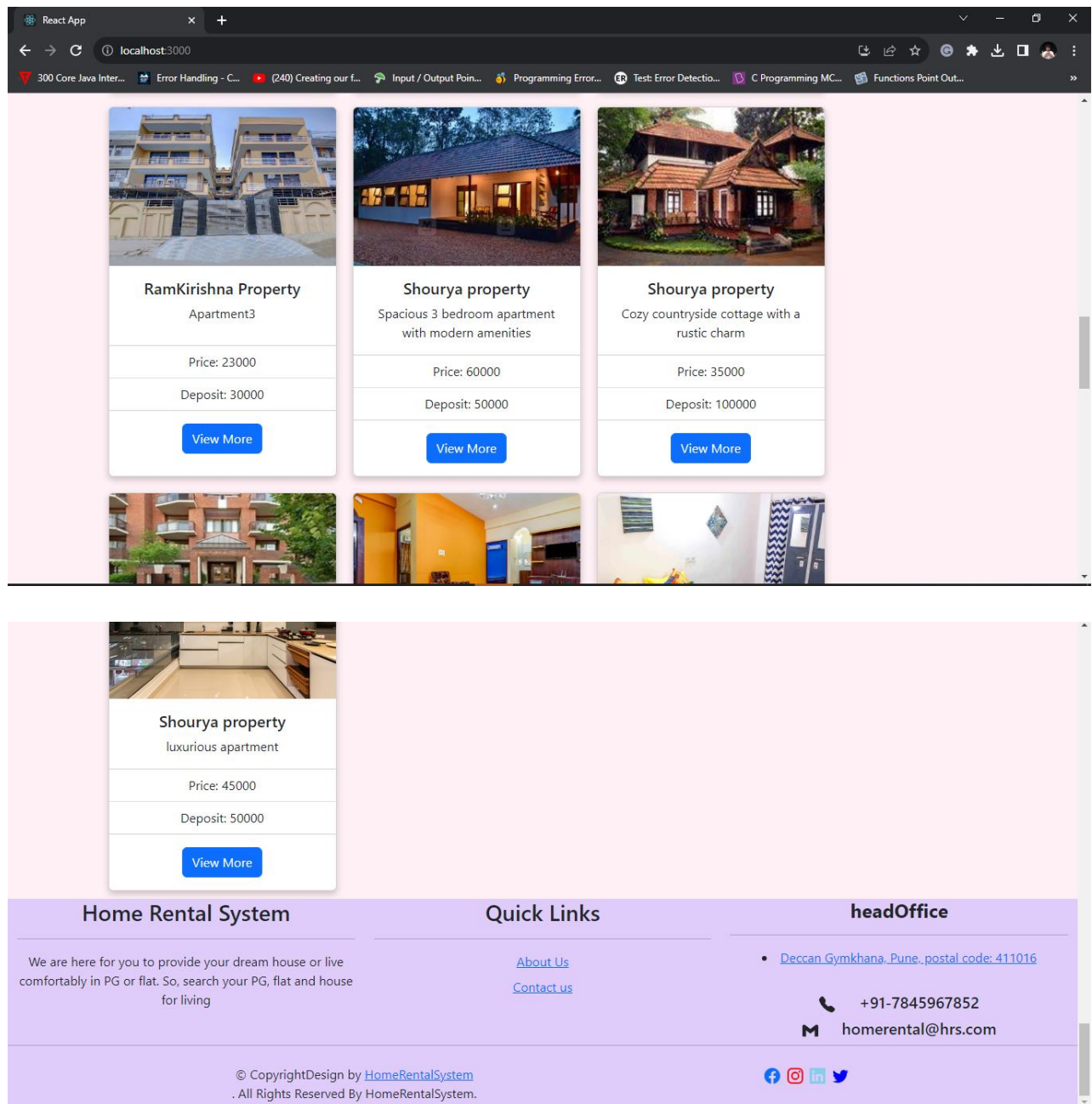
E-R diagram shows database of Home Rental System

8. Snapshots:

8.1 Home Page:

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



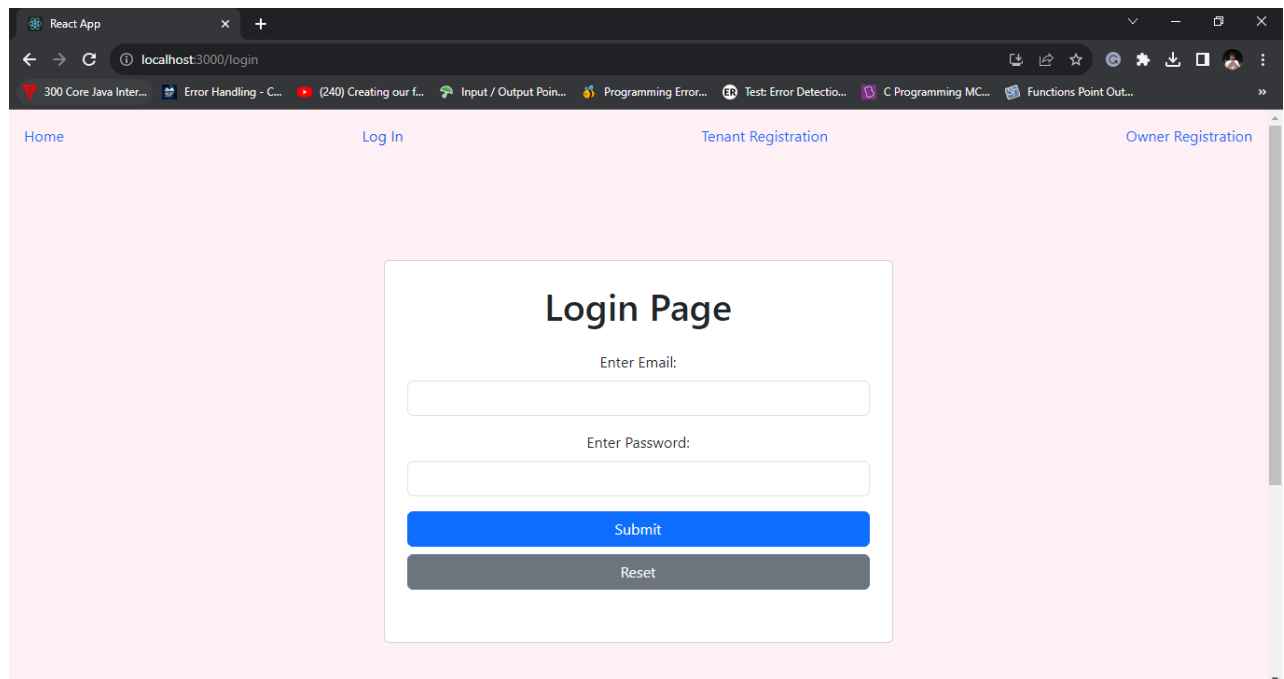


This page contains following controls

- Home
- Log In
- Tenant SignUp
- Owner SignUp
- Login

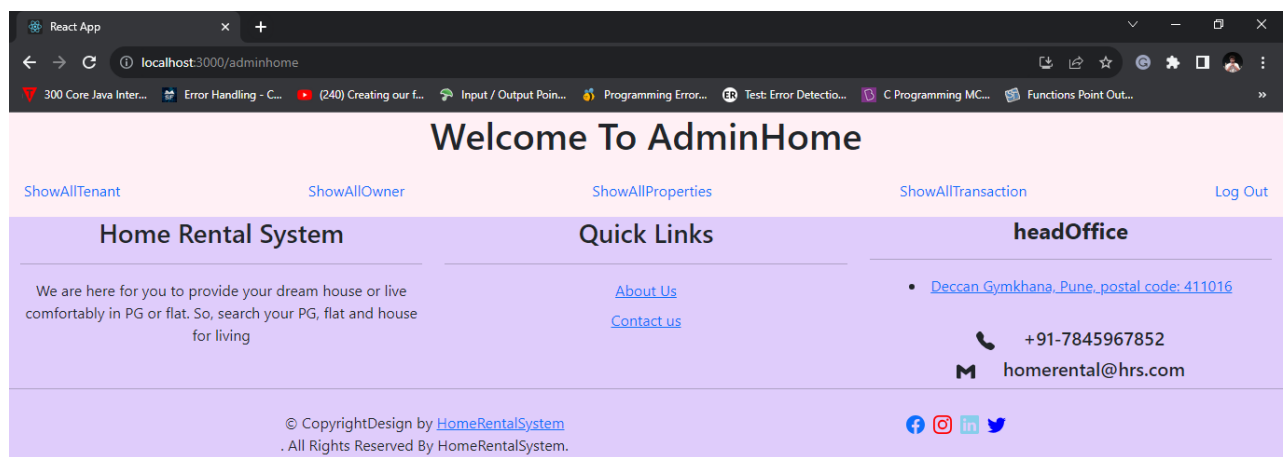
This page also contains footer consisting information about the website and contact us details.

8.2 Login Page



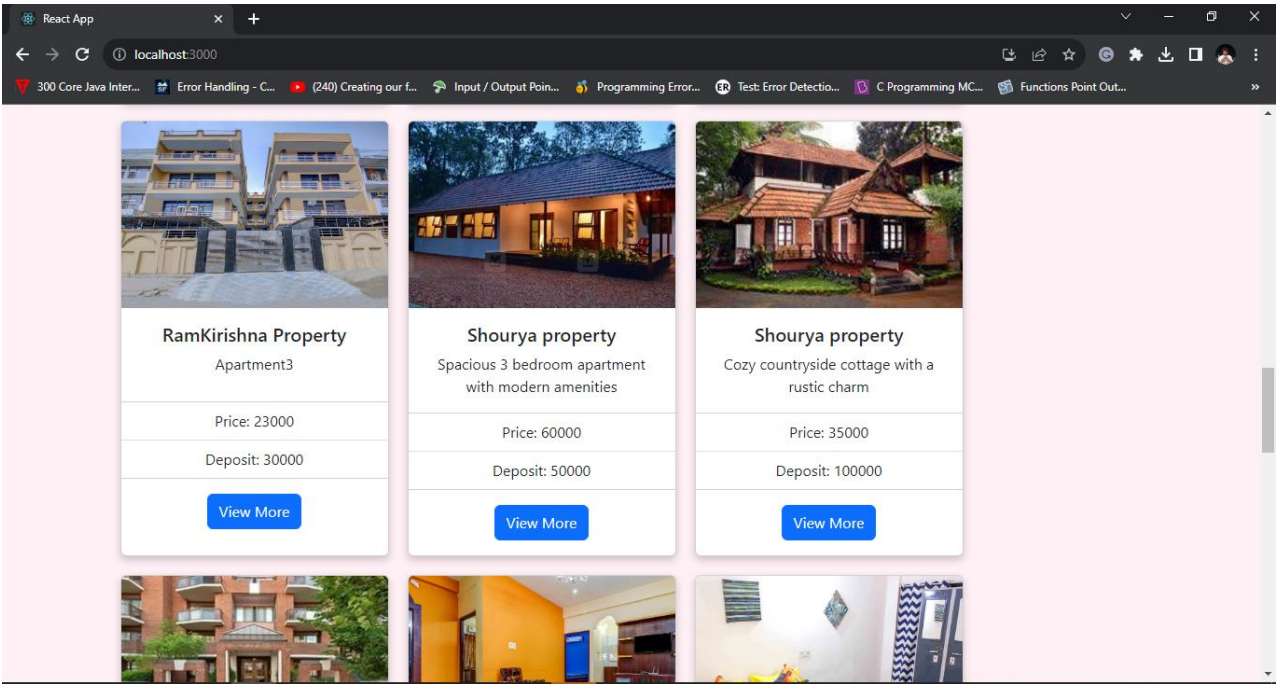
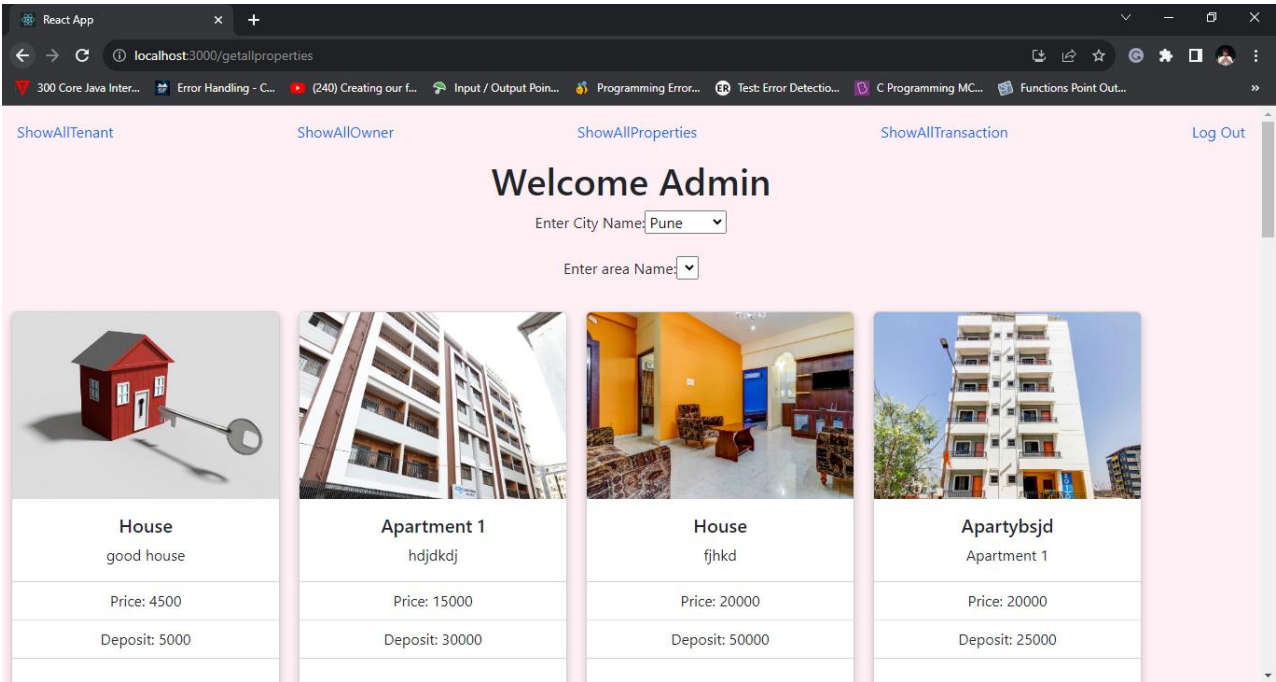
The screenshot shows a web browser window with the address bar displaying 'localhost:3000/login'. The page has a light pink background. At the top, there is a navigation bar with links: 'Home', 'Log In', 'Tenant Registration', and 'Owner Registration'. The main content area features a white box with 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.

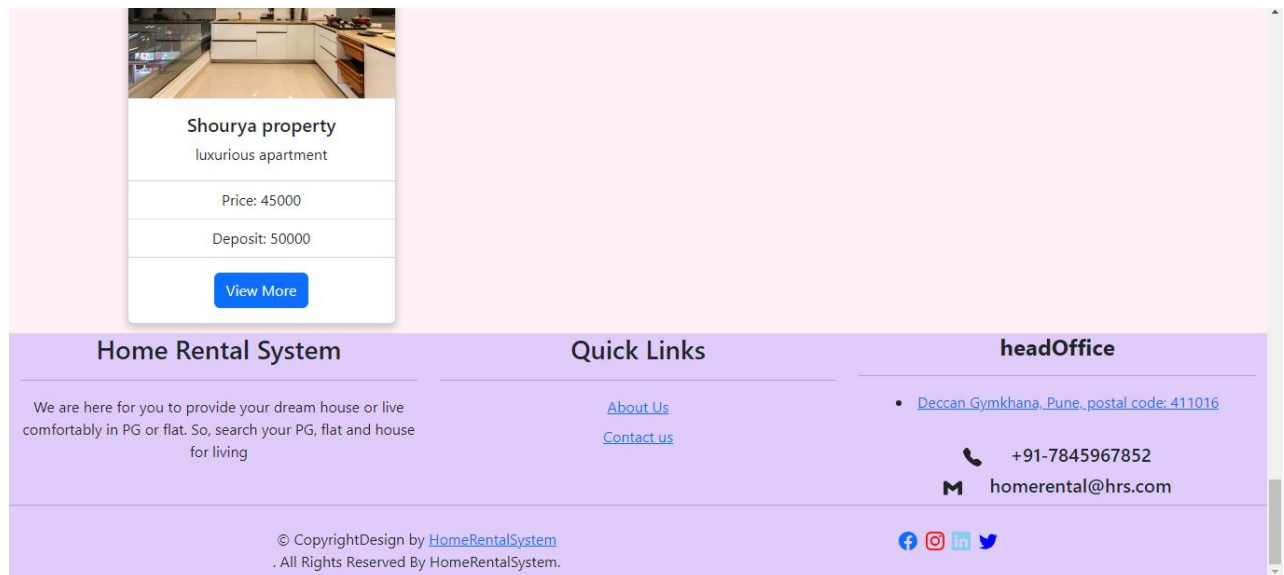
8.3 Admin Page



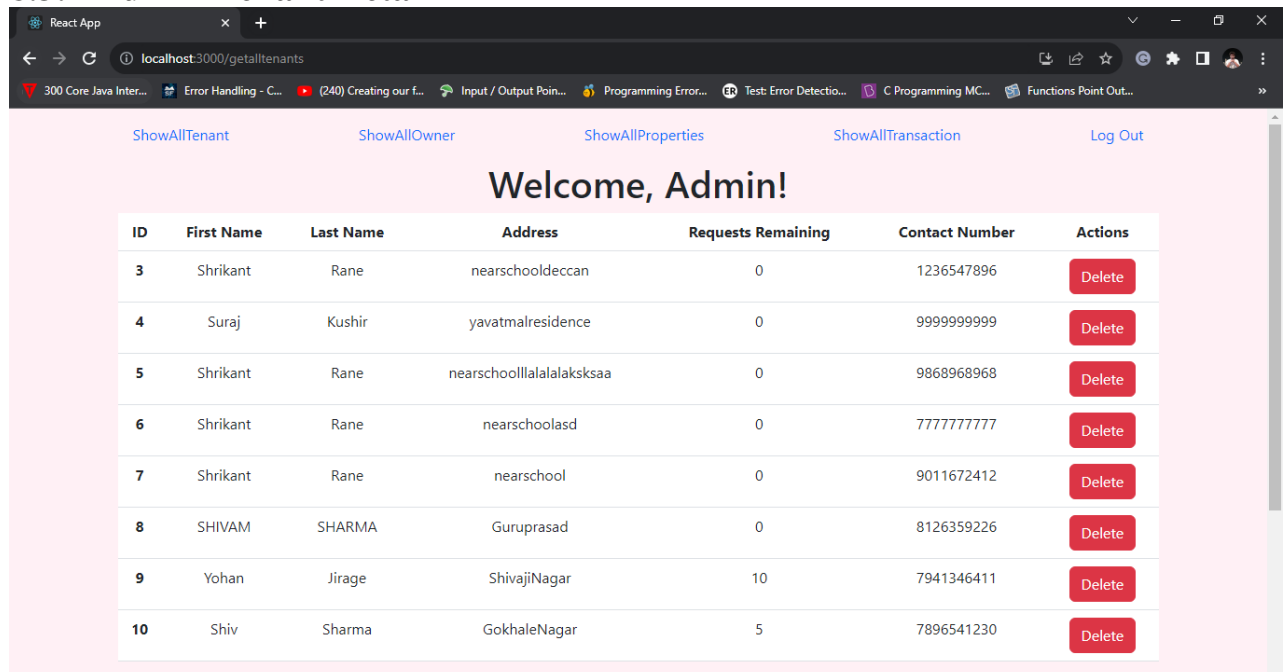
The screenshot shows a web browser window with the address bar displaying 'localhost:3000/adminhome'. The page has a light pink background. At the top, there is a navigation bar with links: 'ShowAllTenant', 'ShowAllOwner', 'ShowAllProperties', 'ShowAllTransaction', and 'Log Out'. The main content area 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





8.3.2 Admin Tenant Detail



8.3.3 Admin Owner Details

[ShowAllTenant](#)[ShowAllOwner](#)[ShowAllProperties](#)[ShowAllTransaction](#)[Log Out](#)

Welcome, Admin!

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

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

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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8.3.4 Transaction Details

React App

localhost:3000/getalltenants

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!

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

React App

localhost:3000/getalltransactions

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

Transaction History

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

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Quick Links

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

headOffice

+91-7845967852

homerental@hrs.com

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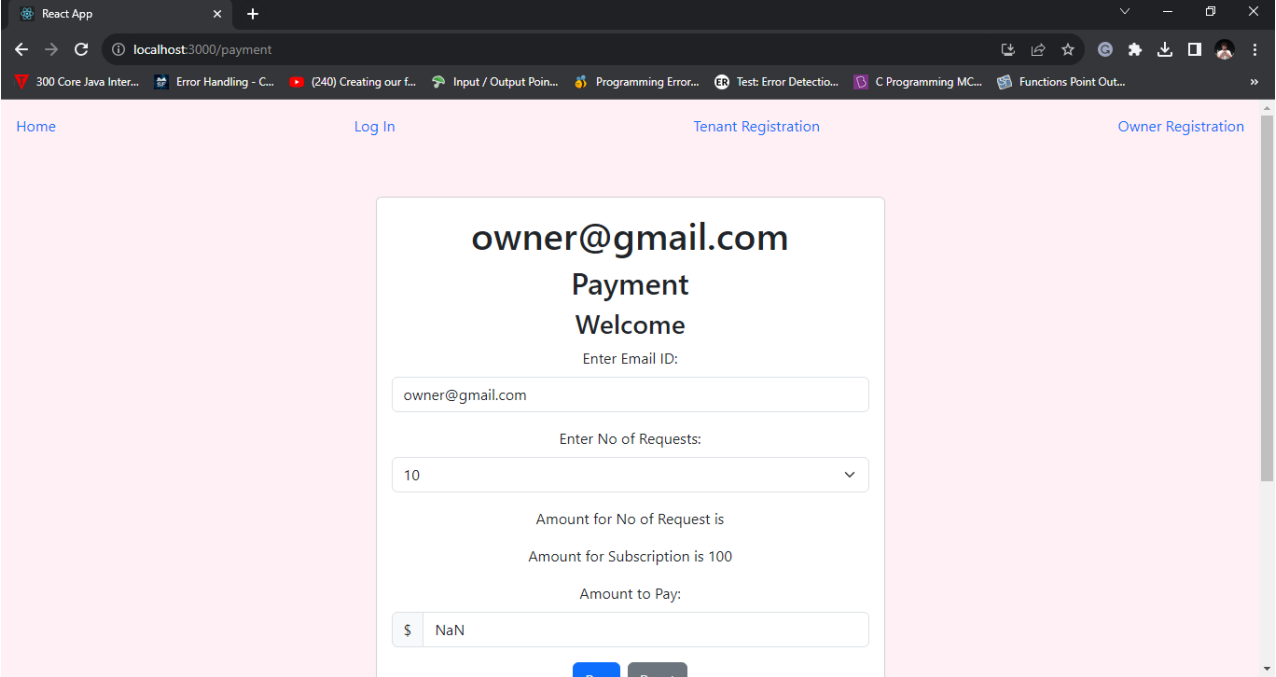
8.4 Owner Page

8.4.1 Add Owner Page

The screenshot shows a web browser window with the URL `localhost:3000/ownerreg`. The page has a navigation bar with links: [Home](#), [Log In](#), [Tenant Registration](#), and [Owner Registration](#). The main heading is **Owner SignUp Form**. Below the heading, 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 "x" icon for clearing the field. The form is styled with a light pink background and white input fields.

This screenshot shows the same web browser window, but the form is further down. It displays two dropdown menus for "Enter City Name:" (with "Pune" selected) and "Enter Area Name:" (with "Gokhle Nagar" selected). Below these is an "Enter Address line:" input field. At the bottom of the form are "Submit" and "Reset" buttons. The footer section is purple and contains three columns: "Home Rental System" with a description, "Quick Links" with [About Us](#) and [Contact us](#), and "headOffice" with contact details: [Deccan Gymkhana, Pune, postal code: 411016](#), phone [+91-7845967852](#), and email [homerental@hrs.com](#). Social media icons for Facebook, Instagram, LinkedIn, and Twitter are also present. Copyright text at the bottom reads: "© CopyrightDesign by [HomeRentalSystem](#). All Rihts Reserved Bv HomeRentalSvstem."

8.4.2 Owner Registration Payment Page



React App

localhost:3000/payment

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 Reset

Home Rental System

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Quick Links

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

headOffice

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

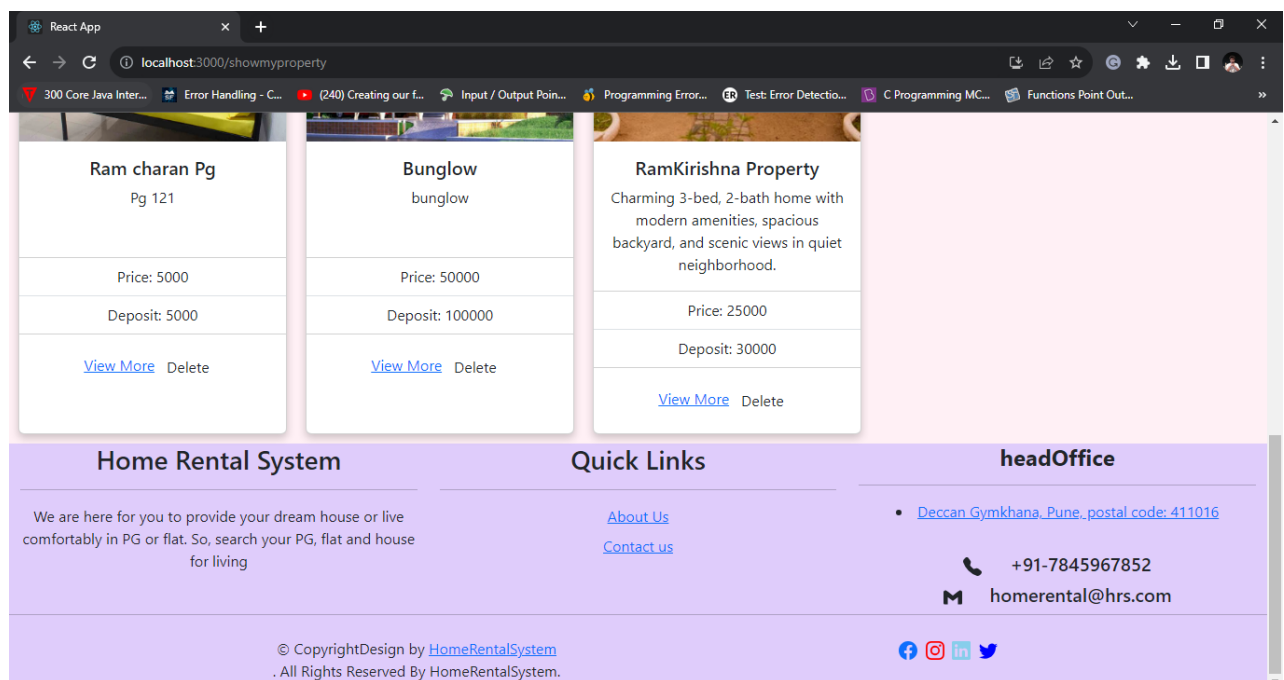
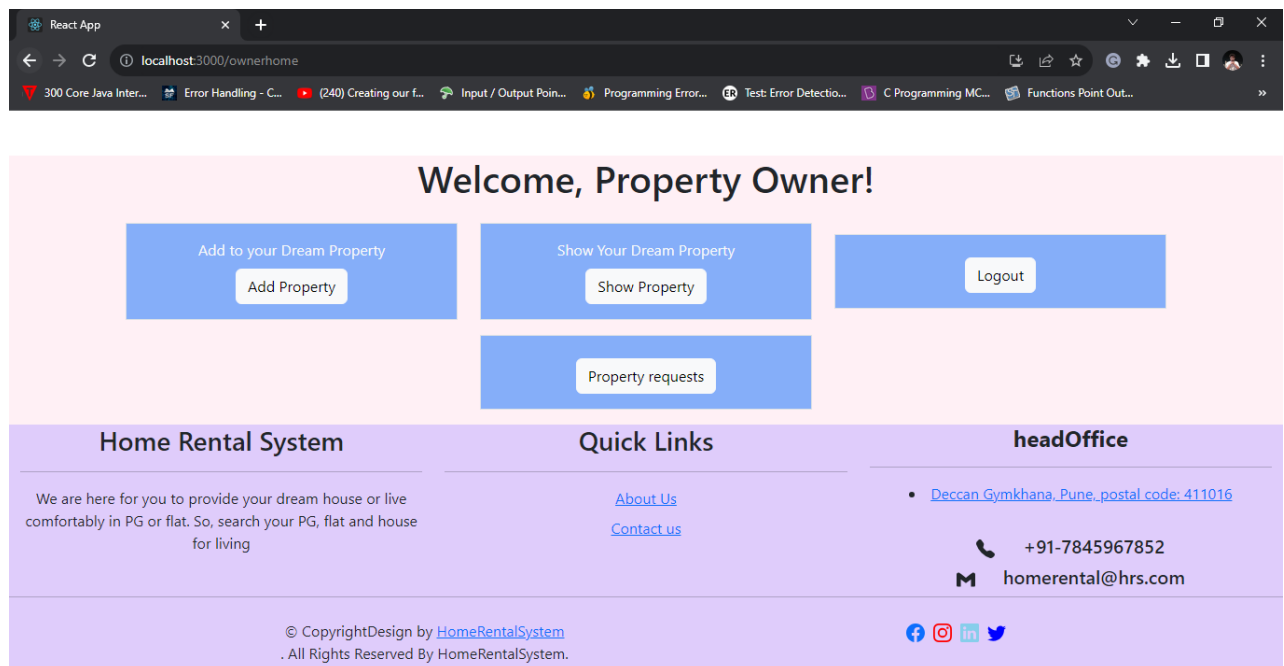
+91-7845967852

homerental@hrs.com

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

8.4.3 Owner Home Page



8.4.4 Owner Property Page

React App


localhost:3000/ownerinfo

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...

Owner Information

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


Property Information



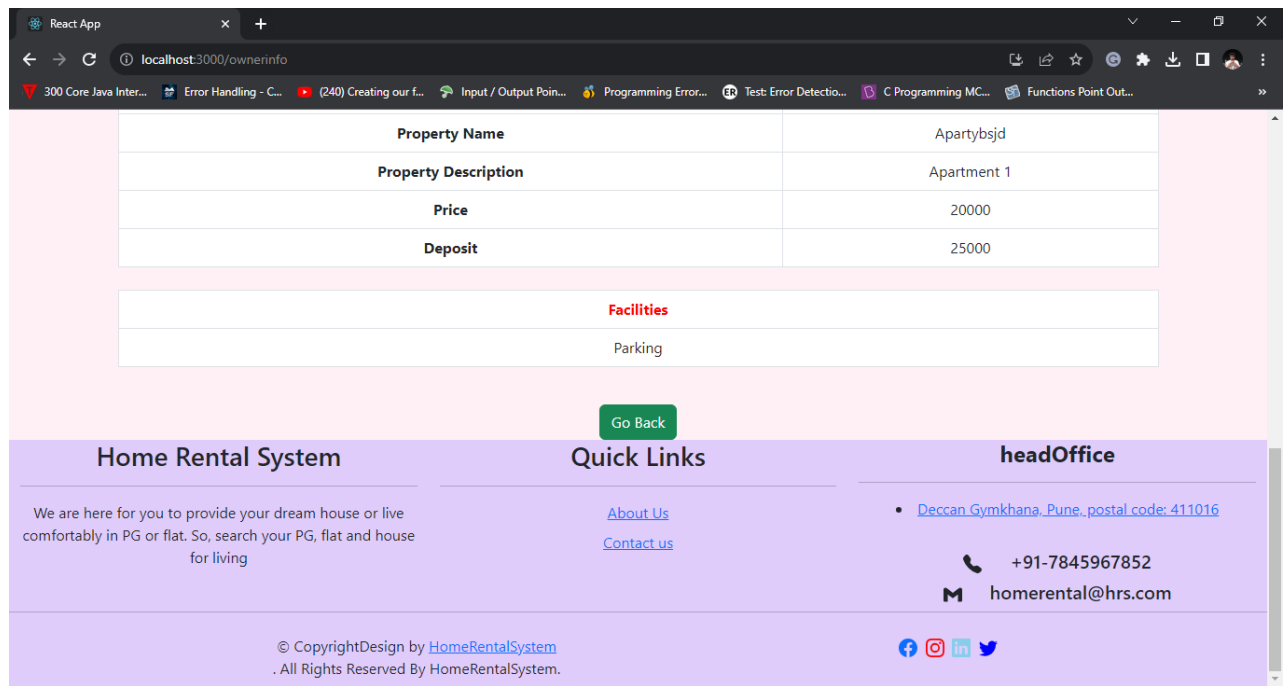
React App

localhost:3000/ownerinfo

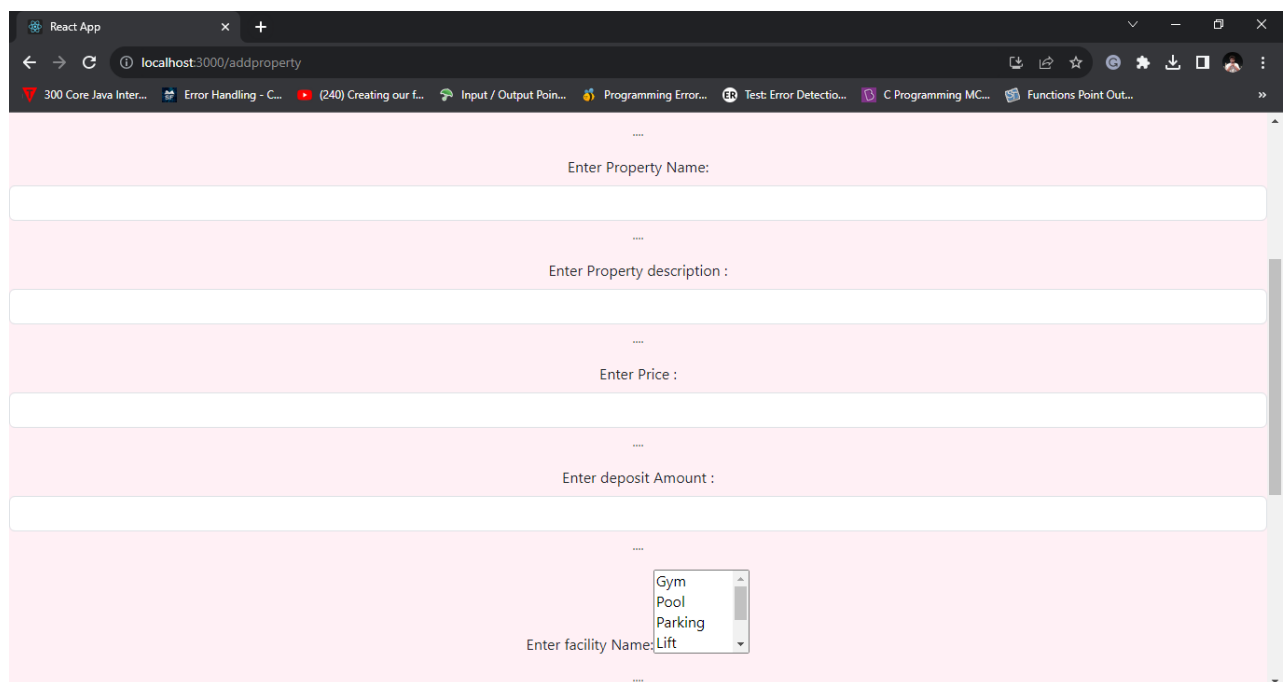
300 Core Java Inter...Error Handling - C...(240) Creating our f...Input / Output Poin...Programming Error...Test: Error Detectio...C Programming MC...Functions Point Out...



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



React App

localhost:3000/addproperty

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 facility Name:

Gym

Pool

Parking

Lift

Upload Image :

Choose File

No file chosen

Submit

Reset

back To OwnerHome

Home Rental System

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[Contact us](#)

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8.4.6 Owner Tenant Request

React App

localhost:3000/propreq

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...

[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
------------	-----------	-------	------------	-----------	-------------

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Quick Links

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[Contact us](#)

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homerental@hrs.com

Facebook

Instagram

LinkedIn

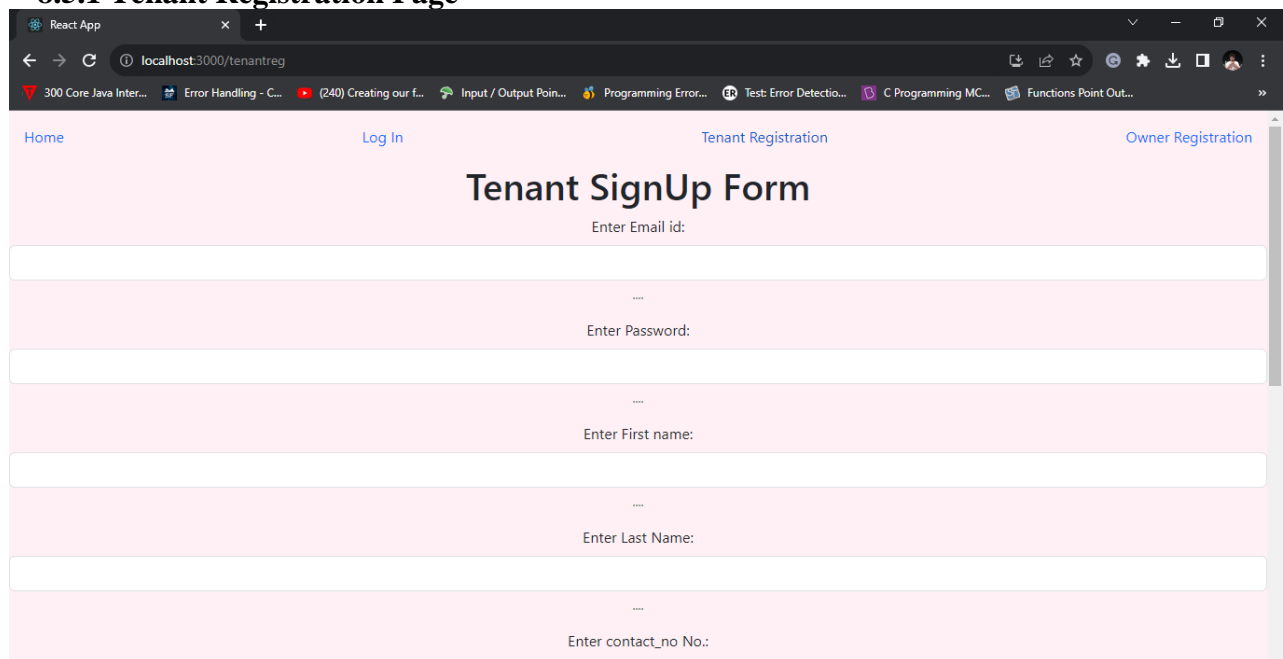
Twitter

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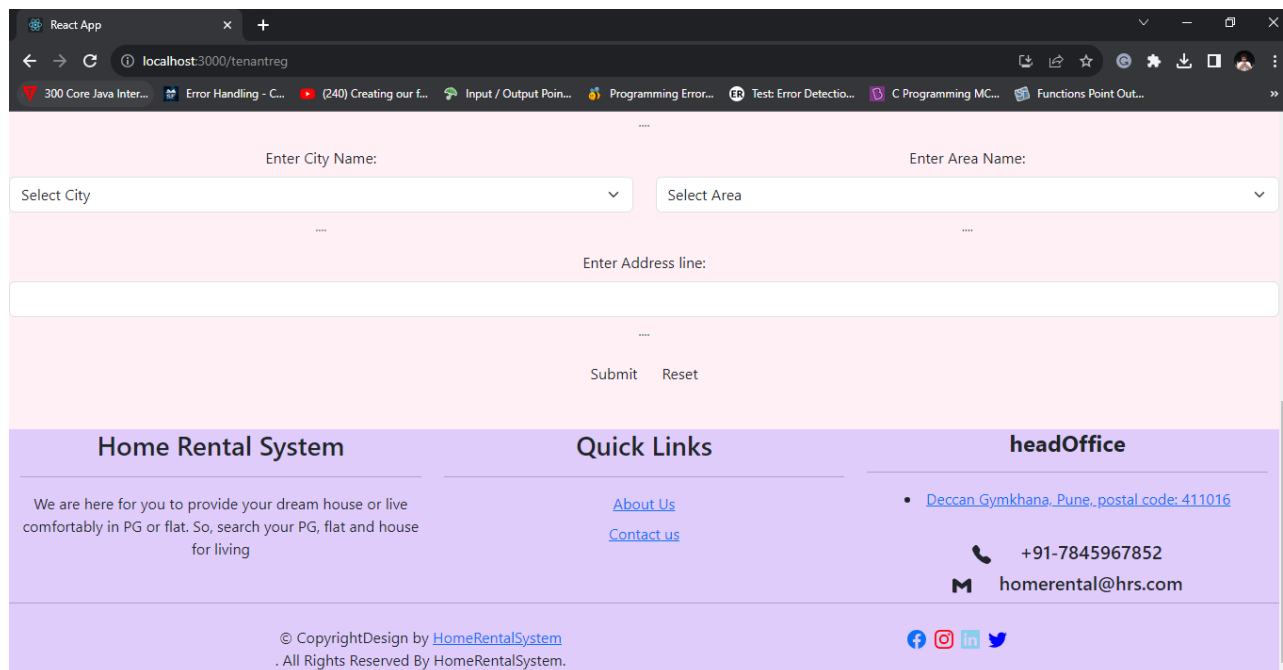
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8.5 Tenant Page

8.5.1 Tenant Registration Page

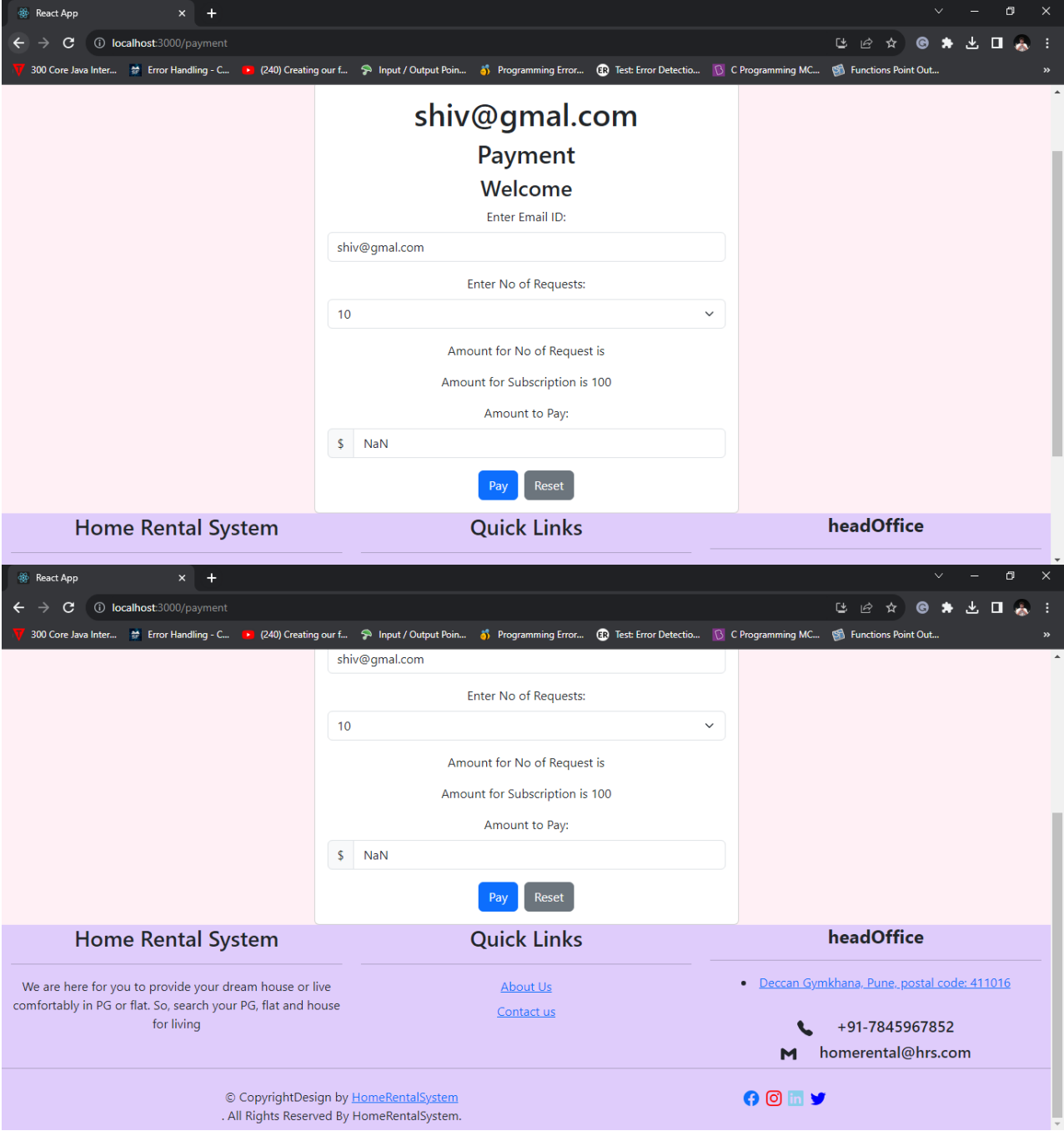


The screenshot shows a web browser window with the URL `localhost:3000/tenantreg`. The page has a navigation bar with links: [Home](#), [Log In](#), [Tenant Registration](#) (active), and [Owner Registration](#). The main heading is **Tenant SignUp Form**. Below the heading, there are five input fields with labels: "Enter Email id:", "Enter Password:", "Enter First name:", "Enter Last Name:", and "Enter contact_no No:". Each input field is a white box with a light gray border, and there are small gray dots below each label indicating the input area.



The screenshot shows the same web browser window, but with the form fields filled out. The "Enter City Name:" field is a dropdown menu with "Select City" selected. The "Enter Area Name:" field is a dropdown menu with "Select Area" selected. The "Enter Address line:" field is a text input field with "Enter Address line:" entered. Below the form fields, there are two buttons: "Submit" and "Reset". The footer of the page is divided into three sections: "Home Rental System", "Quick Links", and "headOffice". The "Home Rental System" section 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 "Quick Links" section contains two links: [About Us](#) and [Contact us](#). The "headOffice" section 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 copyright notice: "© CopyrightDesign by [HomeRentalSystem](#). All Rights Reserved By HomeRentalSystem." and a row of social media icons: Facebook, Instagram, LinkedIn, and Twitter.

8.5.2 Tenant Payment Page



8.5.3 Tenant Home Page

React App

localhost:3000/tenanthome


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...

Welcome tenant@gmail.com

Logout

Enter City Name: Enter Area Name:

Pune




House
good house

Price: 4500

Deposit: 5000

View More




Apartment 1
hdjdkdj

Price: 15000

Deposit: 30000

View More




House
fjhkd

Price: 20000

Deposit: 50000

View More




Apartybsjd
Apartment 1

Price: 20000

Deposit: 25000

View More




Ram charan Pg
Pg 121

Price: 5000

Deposit: 5000

View More






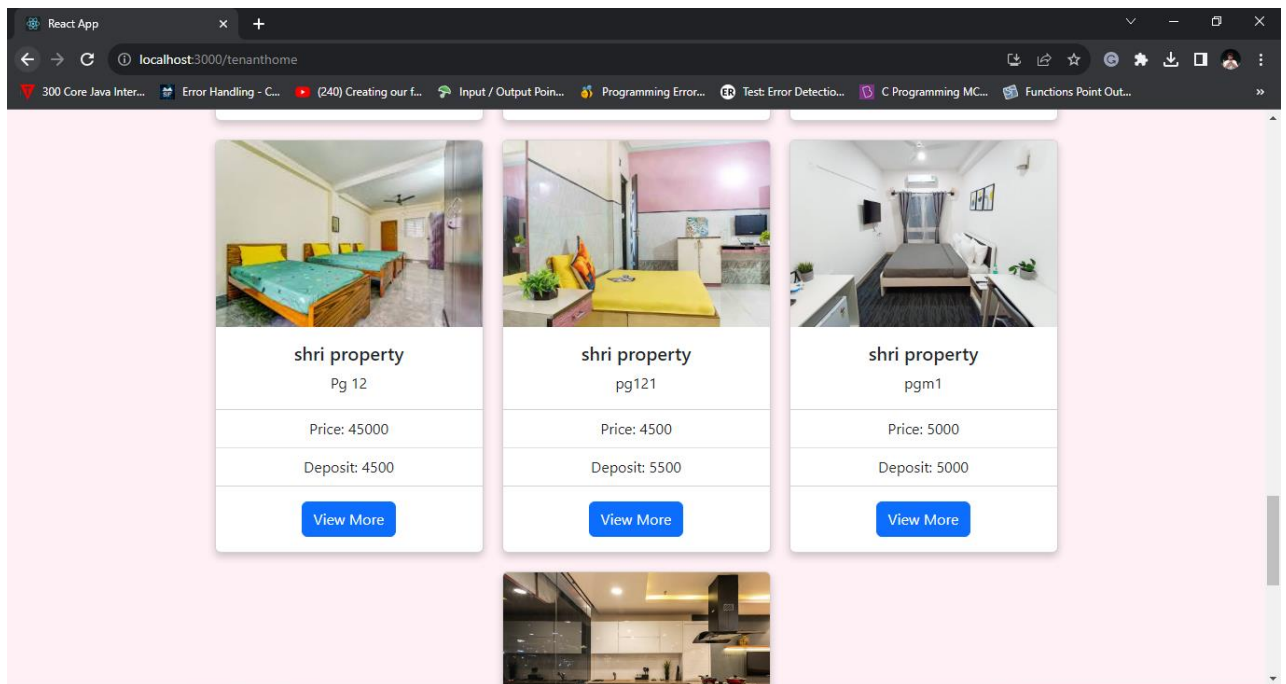
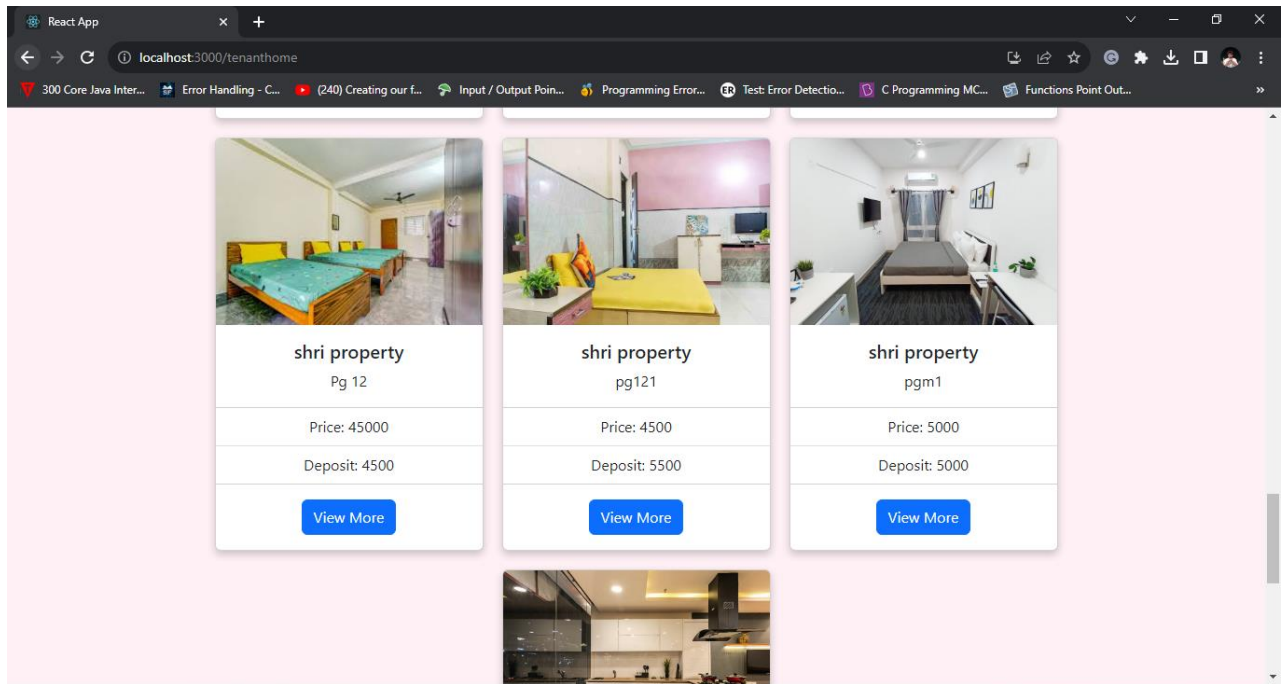
Bungalow
bungalow

Price: 50000

Deposit: 100000

View More





8.5.4 Tenant Owner View Details

React App


localhost:3000/ownerinfo

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...

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

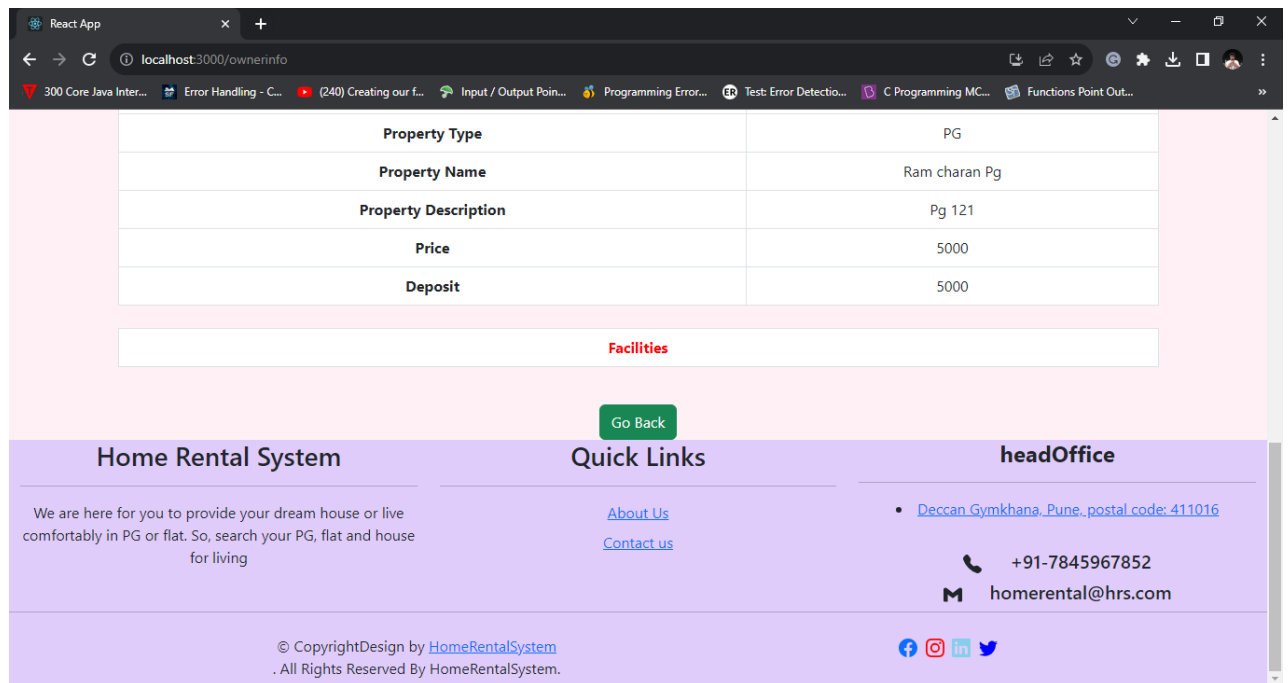
localhost:3000/ownerinfo

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...



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



9. CONCLUSION AND FUTURE SCOPE

The Home Rental System offers an improved search platform for conveniently, affordably, and swiftly booking PGs (Pay Guest accommodations) and homes.

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.

Furthermore, our system offers features such as searching by specific categories, arranging property visits, arranging accommodations, and enabling tenants to customize their agreements to suit their needs during their stay in these

