



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

Documentation On
“Home Rental System”
PG-DAC March 2023

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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:

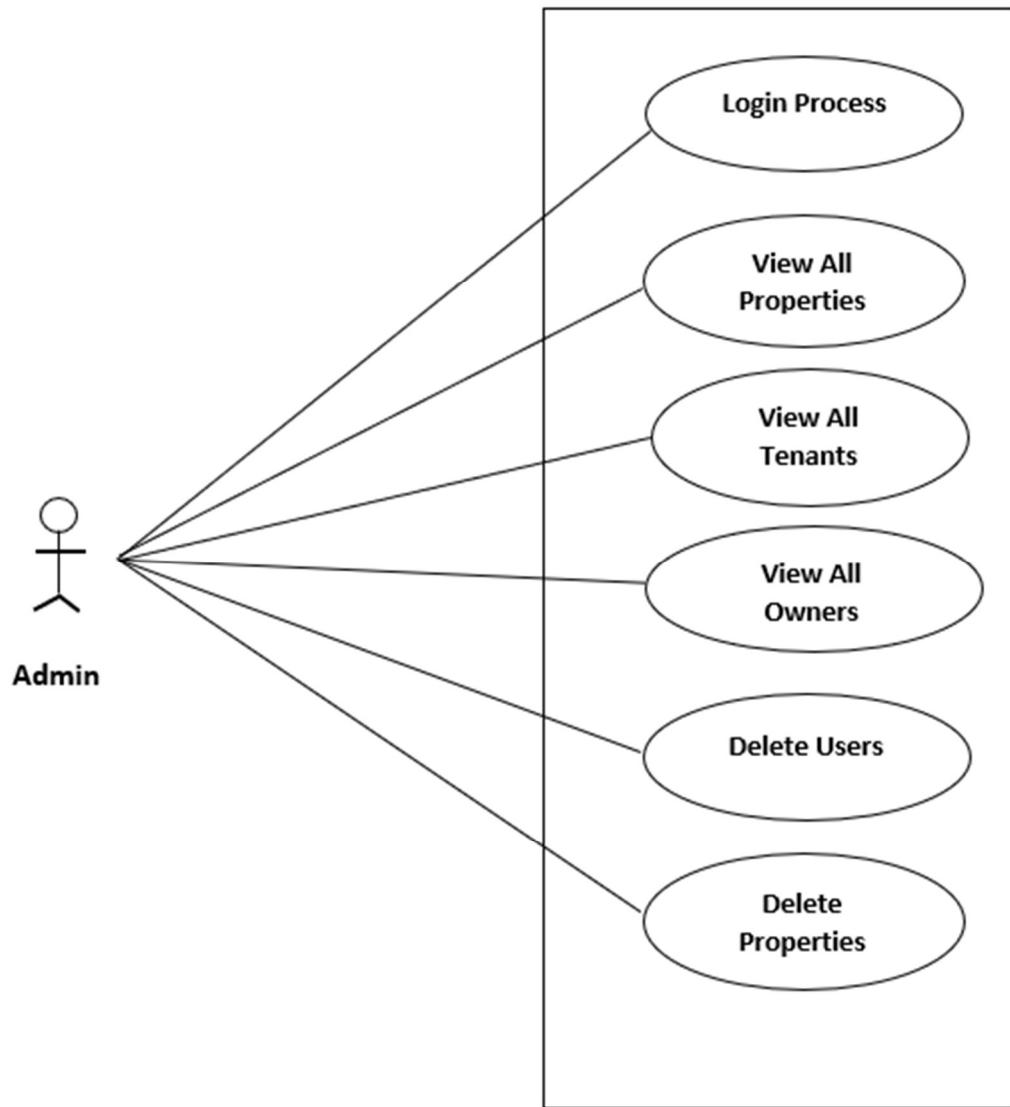


Fig. Use-Case Diagram for Admin

5.2 Owner:

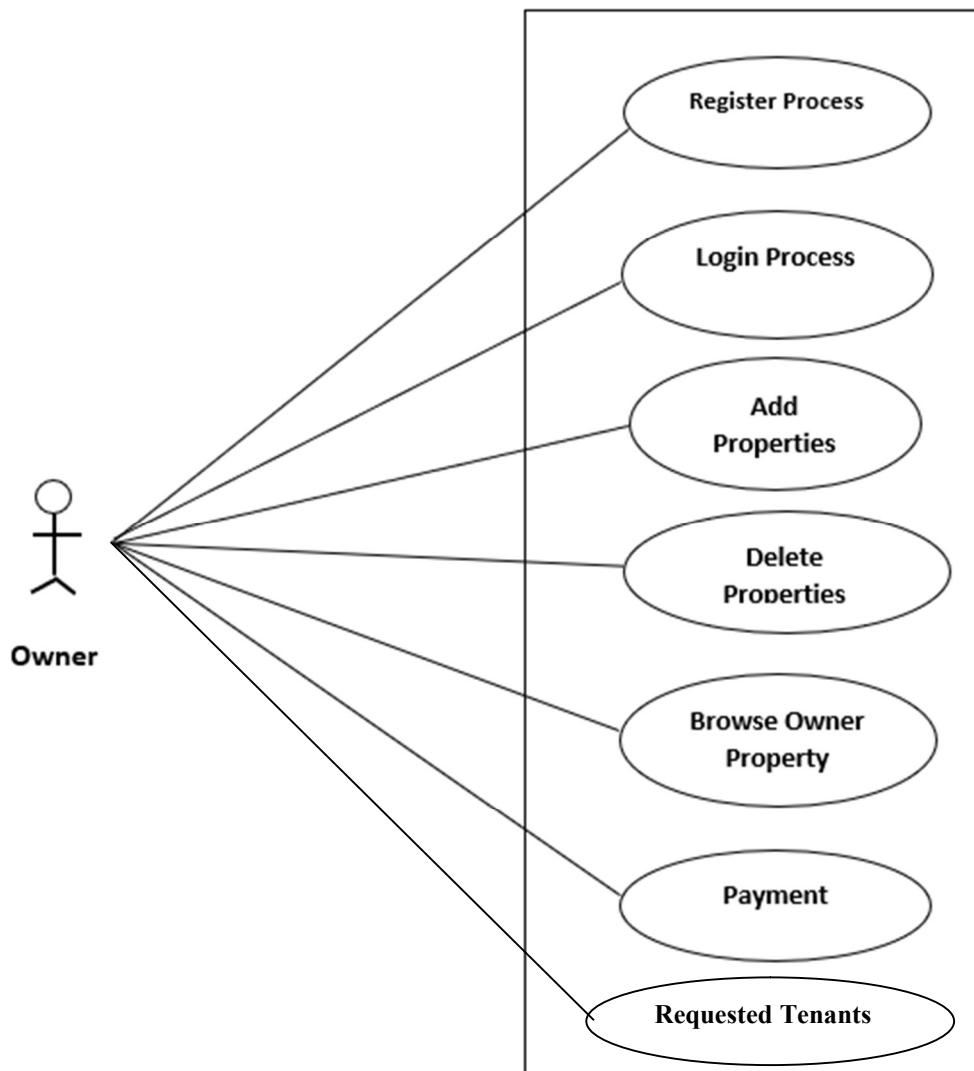


Fig. Use-Case Diagram for Owner

5.3 Tenant:

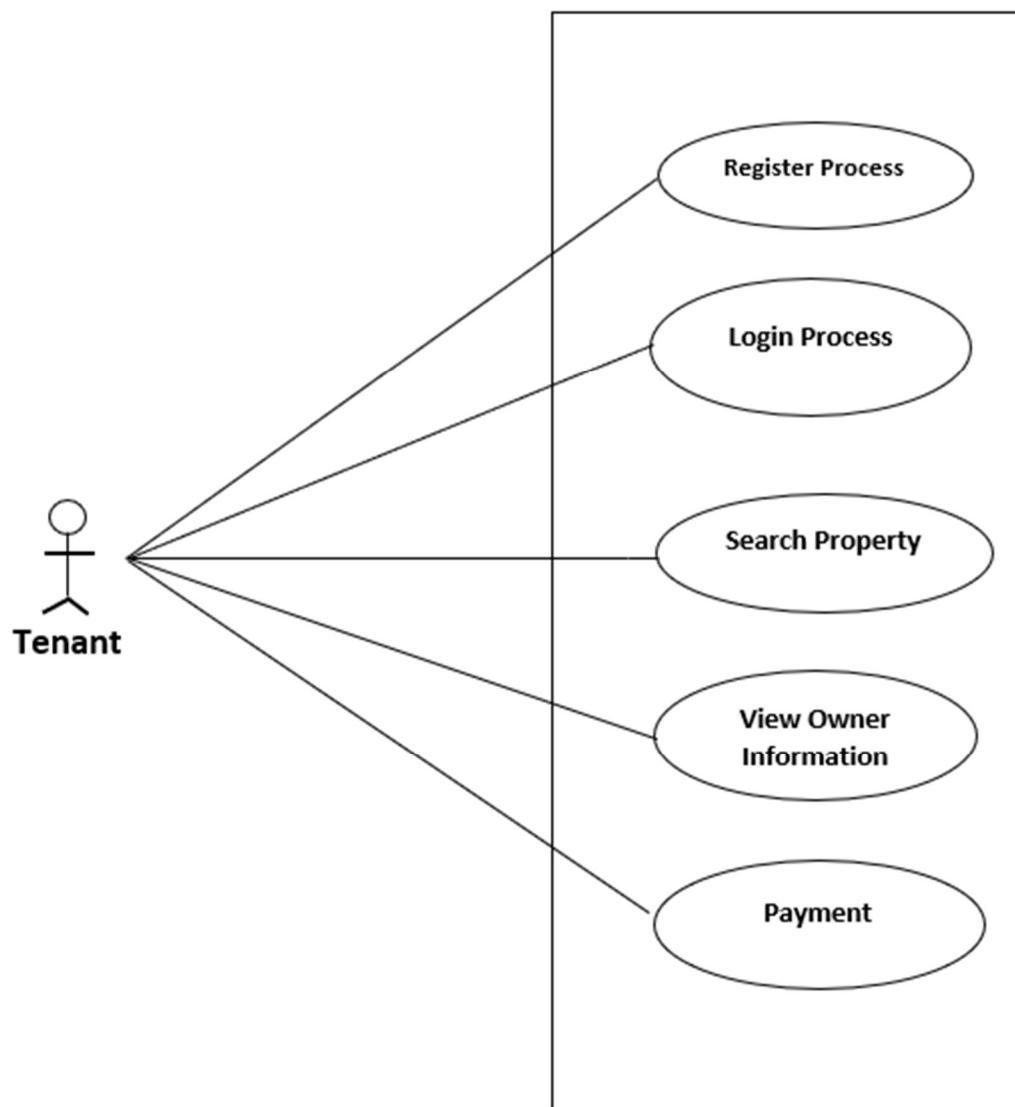


Fig. Use-Case Diagram for Tenant

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	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	

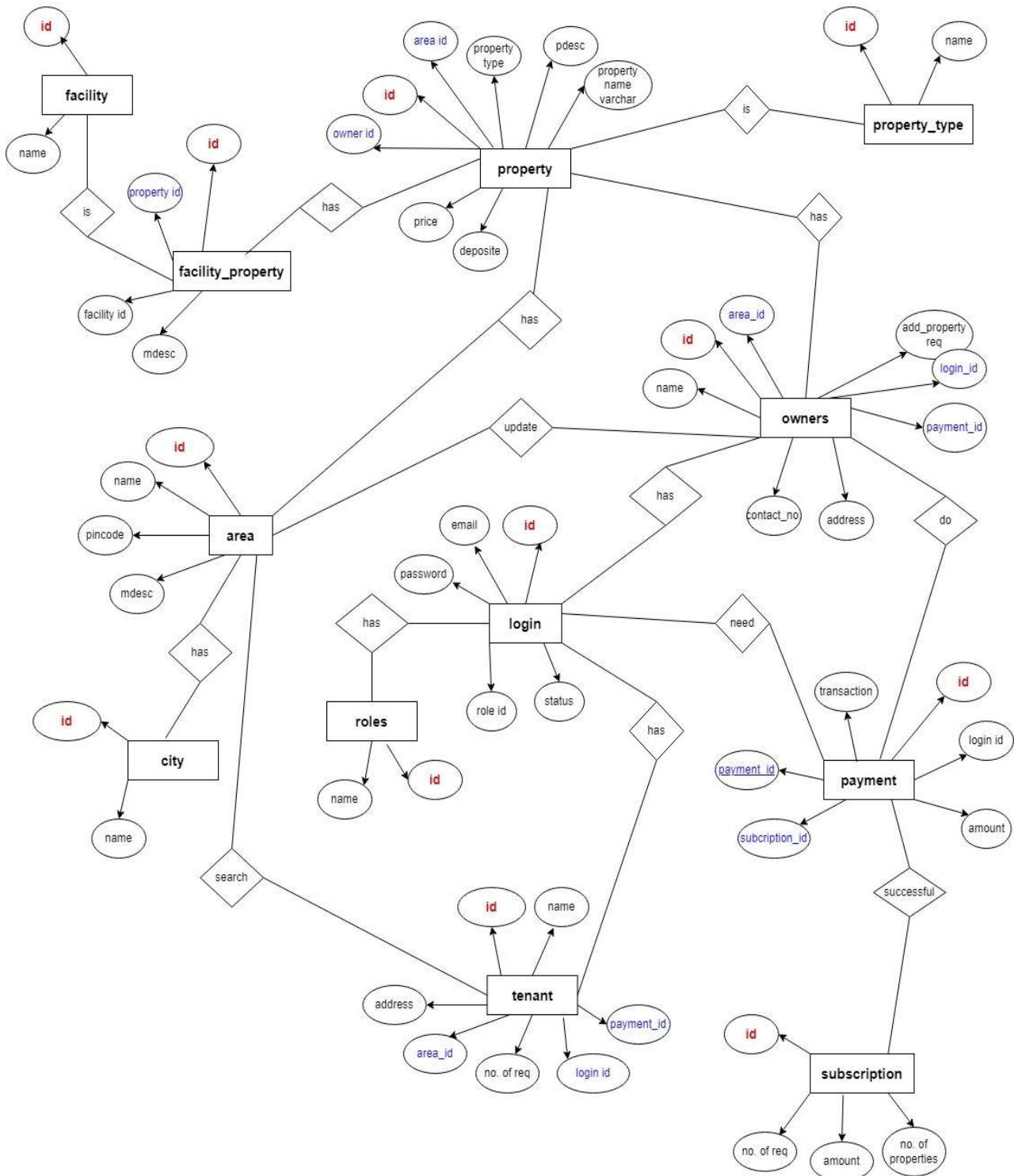
11] Facility:-

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:



8. Snapshots:

8.1 Home Page:

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

The screenshot shows a web browser window for a React App at localhost:3000. The title bar says "React App". The main content area displays a "Welcome To Home Page" message. Below it, there is a "Select City:" dropdown menu with "Pune" selected. A "Select Area:" dropdown menu is also present. Three cards are displayed below these fields:

- House**
good house
- Apartment 1**
hdjkdj
- House**
fjhkd

Below this section, there is another row of three cards:

House	Apartment 1	House
good house	hdjkdj	fjhkd
Price: 4500	Price: 15000	Price: 20000
Deposit: 5000	Deposit: 30000	Deposit: 50000
View More	View More	View More

At the bottom of the page, there are three small images: a building, a room interior, and a house exterior.



Shourya property
luxurious apartment

Price: 45000
Deposit: 50000

[View More](#)

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

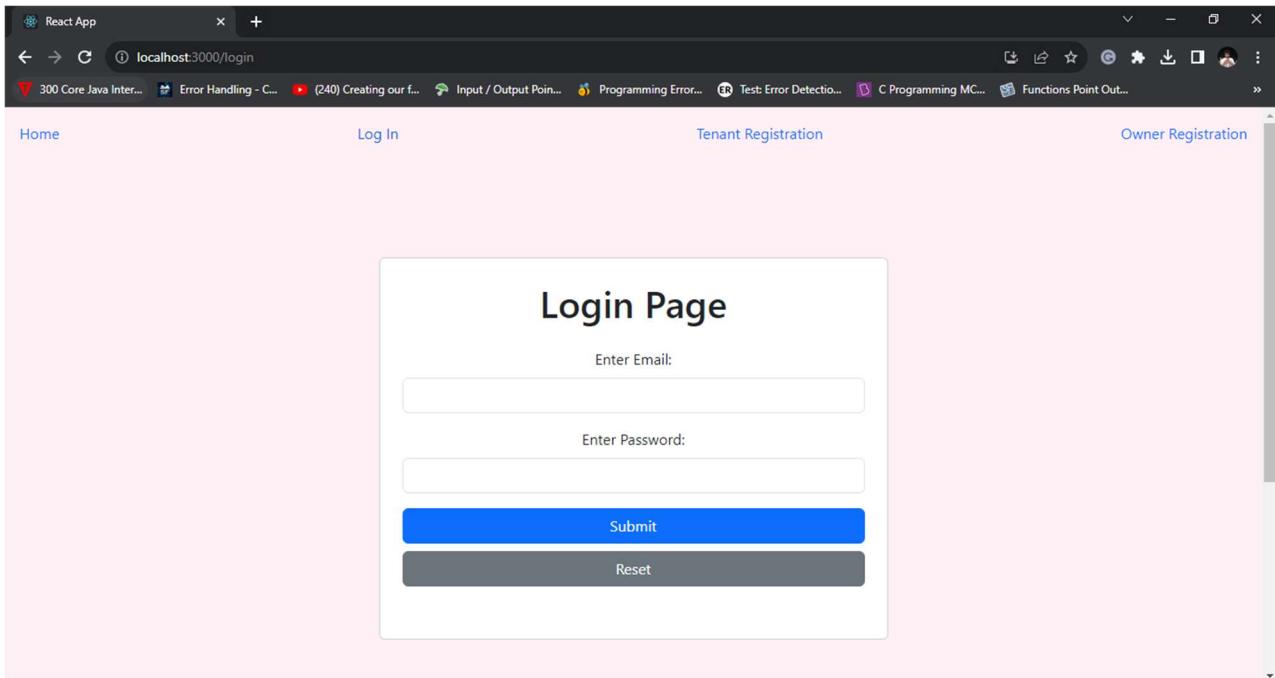


This page contains following controls

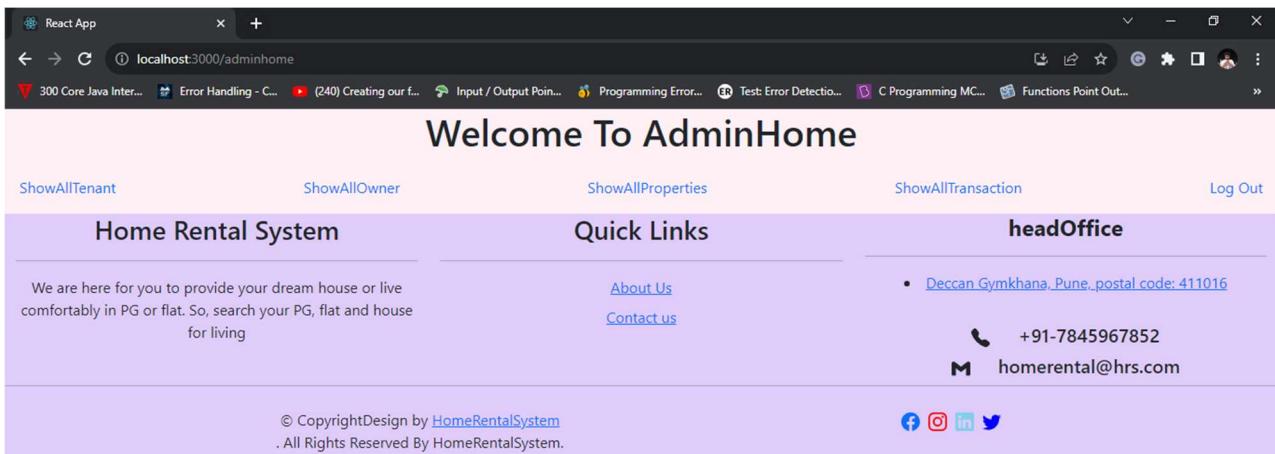
- Home
- Log In
- Tenant Registration
- Owner Registration

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

8.2 Login Page



8.3 Admin



8.3.1 Admin Home Page

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000/getallproperties". The page is titled "Welcome Admin". It features a search bar for "Enter City Name" (set to "Pune") and "Enter area Name". Below this is a grid of four property cards:

Image	Name	Description	Price	Deposit
	House good house		Price: 4500	Deposit: 5000
	Apartment 1 hdjkdj		Price: 15000	Deposit: 30000
	House fjhkd		Price: 20000	Deposit: 50000
	Apartybsjd Apartment 1		Price: 20000	Deposit: 25000

The screenshot shows the "Home Rental System" website. At the top, there is a promotional image for "Shourya property" featuring a modern kitchen. Below it is a card with the following details:

	Shourya property luxurious apartment
	Price: 45000
	Deposit: 50000
	View More

The main content area has three sections: "Home Rental System", "Quick Links", and "headOffice".

Home Rental System: A brief description: "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: Links to "About Us" and "Contact us".

headOffice: Address: "Deccan Gymkhana, Pune, postal code: 411016", Phone: "+91-7845967852", Email: "homeralental@hrs.com". Social media icons for Facebook, Instagram, LinkedIn, and Twitter are also present.

At the bottom, there is a copyright notice: "© CopyrightDesign by [HomeRentalSystem](#). All Rights Reserved By HomeRentalSystem."

8.3.2 Admin - Show All Tenant Detail

A screenshot of a web browser window titled "React App" at "localhost:3000/getalltenants". The page displays a table of tenant information with columns: ID, First Name, Last Name, Address, Requests Remaining, Contact Number, and Actions (Delete button). The table contains 10 rows of data.

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

8.3.3 Admin - Show All Owner Details

A screenshot of a web browser window titled "React App" at "localhost:3000/getallowners". The page displays a table of owner information with columns: ID, First Name, Last Name, Address, Requests Remaining, Contact Number, and Actions (Delete button). The table contains 6 rows of data.

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

8.3.4 Transaction Details

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000/getalltransactions". The page has a header with links: "ShowAllTenant", "ShowAllOwner", "ShowAllProperties", "ShowAllTransaction", and "Log Out". Below the header is a section titled "Transaction History" containing 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 sections: "Home Rental System", "Quick Links", and "headOffice". The "Home Rental System" section contains a brief description. The "Quick Links" section has links to "About Us" and "Contact us". The "headOffice" section includes an address, phone number, email, and social media links.

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
homerenタル@hrs.com

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[Facebook](#) [Instagram](#) [LinkedIn](#) [Twitter](#)

8.4 Owner

8.4.1 Add Owner Page

The screenshot shows a web browser window titled "React App" with the URL "localhost:3000/ownerreg". The page has a header with links: "Home", "Log In", "Tenant Registration", and "Owner Registration". Below the header is a section titled "Owner SignUp Form" with the following fields:

- Enter Email id:
- Enter Password:
- Enter First name:
- Enter Last Name:
- Enter contact_no No.:

Enter City Name:

Enter Area Name:

Enter Address line:

Submit Reset

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

headOffice

- Deccan Gymkhana, Pune, postal code: 411016

+91-7845967852
 M homerental@hrs.com

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8.4.2 Owner Registration Payment Page

Home Log In Tenant Registration Owner Registration

owner@gmail.com

Payment
Welcome

Enter Email ID:

Enter No of Requests:

Amount for No of Request is
 Amount for Subscription is 100

Amount to Pay:

The screenshot shows a payment interface on a web browser. At the top, there is a header bar with various links and icons. Below it is a form with the following fields:

- Email: owner@gmail.com
- Enter No of Requests: 10
- Amount for No of Request is: 100
- Amount for Subscription is 100
- Amount to Pay: \$ NaN
- Buttons: Pay (blue) and Reset (grey)

Home Rental System

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Quick Links

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

headOffice

- Deccan Gymkhana, Pune, postal code: 411016
- Phone: +91-7845967852
- Email: homerental@hrs.com

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Facebook, Instagram, LinkedIn, Twitter icons

8.4.3 Owner Home Page

The screenshot shows the owner's home page on a web browser. The main content area features a large "Welcome, Property Owner!" message. Below it are three blue rectangular buttons:

- Add to your Dream Property (with Add Property button)
- Show Your Dream Property (with Show Property button)
- Logout

Welcome, Property Owner!

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
- Phone: +91-7845967852
- Email: homerental@hrs.com

Facebook, Instagram, LinkedIn, Twitter icons

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8.4.4 Owner - Property Information 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	Wadhwala 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

The screenshot shows a web browser window for a 'React App' at localhost:3000/ownerinfo. The main content displays a table of property details:

Property Name	Apartybsjd
Property Description	Apartment 1
Price	20000
Deposit	25000

Below the table, a section titled 'Facilities' contains the value 'Parking'. A green 'Go Back' button is located above the footer.

The footer is divided into three sections:

- Home Rental System**: A brief description: "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**: Links to [About Us](#) and [Contact us](#).
- headOffice**: Address: "Deccan Gymkhana, Pune, postal code: 411016", Phone: "+91-7845967852", Email: "homeralental@hrs.com".

On the right side of the footer, there are social media icons for Facebook, Instagram, LinkedIn, and Twitter.

8.4.5 Owner Add Property

The screenshot shows a web browser window for a 'React App' at localhost:3000/addproperty. The form consists of several input fields:

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

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... »

Gym
Pool
Parking

Enter facility Name: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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homerenatal@hrs.com

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Facebook Instagram LinkedIn Twitter

8.4.6 Owner - Tenant Requested for owner information

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

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

headOffice

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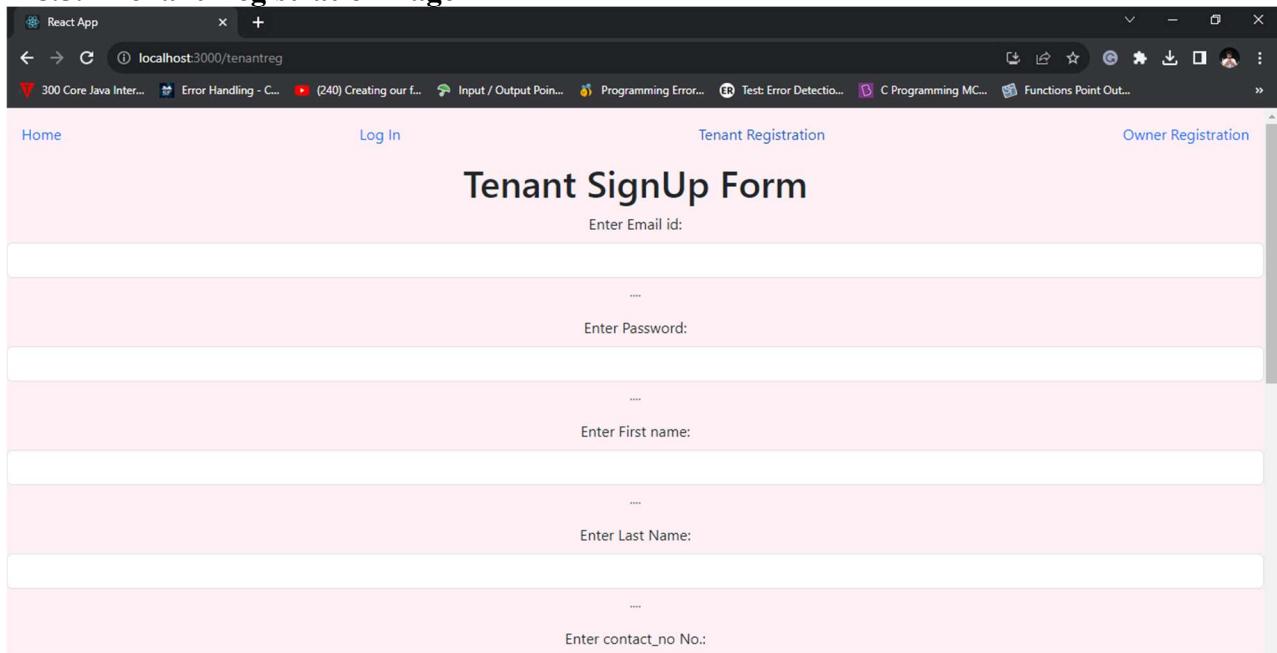
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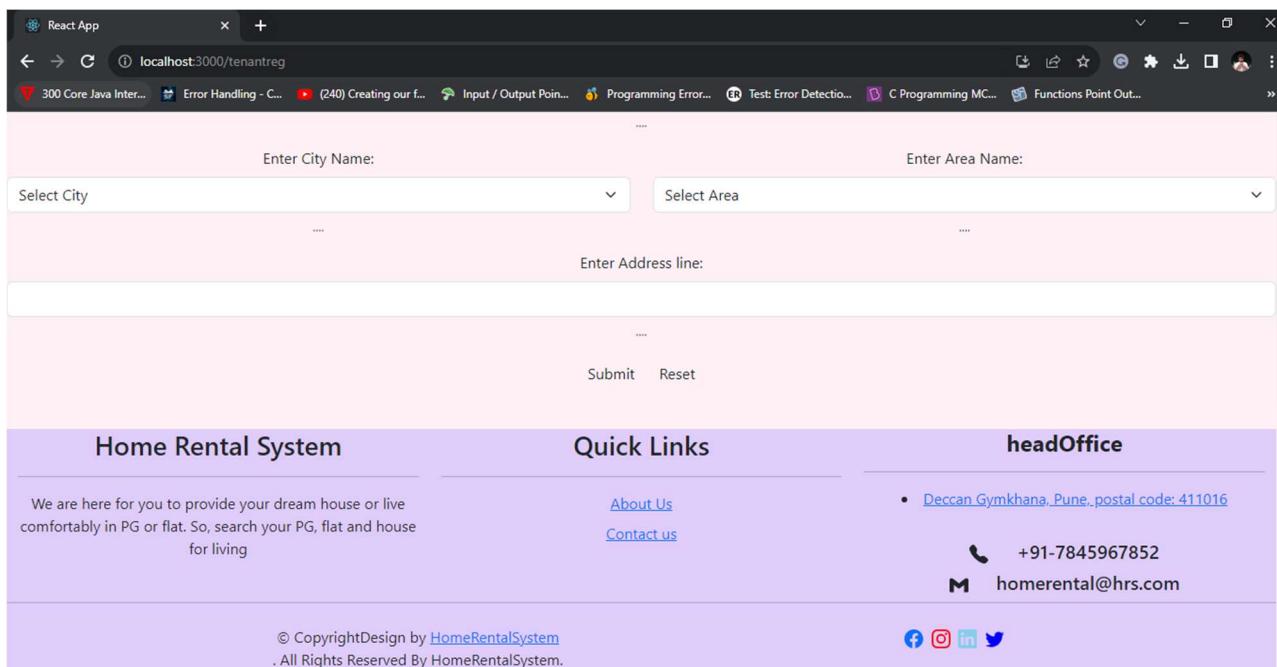
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8.5 Tenant

8.5.1 Tenant Registration Page



The screenshot shows a web browser window titled "React App" with the URL "localhost:3000/tenantreg". The page has a pink header bar with navigation links: "Home", "Log In", "Tenant Registration", and "Owner Registration". The main content area is titled "Tenant SignUp Form". It contains several input fields with placeholder text: "Enter Email id:", "Enter Password:", "Enter First name:", "Enter Last Name:", and "Enter contact_no No.". Each input field is preceded by a small "..." icon.



The screenshot shows a web browser window titled "React App" with the URL "localhost:3000/tenantreg". The main content area contains two dropdown menus: "Select City" and "Select Area", both with placeholder text "...". Below them is an input field for "Enter Address line:" with placeholder text "...". At the bottom of the form are "Submit" and "Reset" buttons. The page has a pink header bar with navigation links: "Home Rental System", "Quick Links", and "headOffice". The "Home Rental System" section contains a paragraph about providing dream houses. The "Quick Links" section has links to "About Us" and "Contact us". The "headOffice" section lists the address "Deccan Gymkhana, Pune, postal code: 411016", phone number "+91-7845967852", and email "homerenタル@hrs.com". Social media icons for Facebook, Instagram, LinkedIn, and Twitter are also present.

8.5.2 Tenant Payment Page

The screenshots illustrate a tenant payment interface across three different header configurations:

- Top Screenshot:** Shows a pink header bar with "Home Rental System" on the left and "headOffice" on the right. The main content area displays an email input field ("shiv@gmal.com"), a title ("Payment Welcome"), an email entry field ("Enter Email ID: shiv@gmal.com"), a dropdown for "Enter No of Requests" (set to 10), a message "Amount for No of Request is", and another message "Amount for Subscription is 100". Below these are fields for "Amount to Pay:" (\$ NaN) and buttons for "Pay" and "Reset".
- Middle Screenshot:** Shows a purple header bar with "Home Rental System" on the left and "headOffice" on the right. The layout is identical to the top screenshot.
- Bottom Screenshot:** Shows a light blue header bar with "Home Rental System" on the left and "headOffice" on the right. The layout is identical to the top screenshot.

Below the header sections, each screenshot includes a footer with social media links (Facebook, Instagram, LinkedIn, Twitter) and contact information:

- Footer (Top Two Screenshots):**
 - 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
 - [About Us](#)
 - [Contact us](#)
 - [Deccan Gymkhana, Pune, postal code: 411016](#)
 - 📞 +91-7845967852
 - ✉️ homerental@hrs.com
- Footer (Bottom Screenshot):**
 - © CopyrightDesign by [HomeRentalSystem](#)
 - . All Rights Reserved By HomeRentalSystem.
 - Facebook icon
 - Instagram icon
 - LinkedIn icon
 - Twitter icon

8.5.3 Tenant Home Page

React App x +

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:

Pune

Enter Area Name:

House
good house
Price: 4500
Deposit: 5000
[View More](#)

Apartment 1
hdjkdj
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](#)

Bunglow
bunglow
Price: 50000
Deposit: 100000
[View More](#)



8.5.4 Tenant Owner - Property 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	4567788999
Owner Email	suraj12@gmail.com
Address	nearschool
Area Name	Wadhwala kalyan
City Name	Mumbai

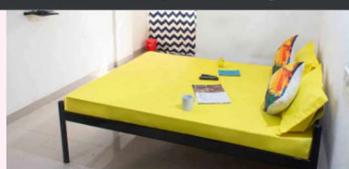
Property Information



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

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.