



**INSTITUTE FOR ADVANCED
COMPUTING AND SOFTWARE
DEVELOPMENT AKURDI, PUNE**

Project On

**“Urban Estate”- An
Online Property Dealing
Site**

PG-DAC SEPT 2022

Submitted By:

Group No: 06

Roll No.	Name:
1. 229007	Ajinkya Rokade
2. 229175	Nikhil Dhage

Under the Guidance of :

Mrs. Sonali Moghal

Faculty Member

Sunbeam Institute of Information Technology, Pune



CERTIFICATE

This is to certify that the project work under the title 'An Online Property Dealing Site' is done by **Ajinkya Rajendra Rokade** and **Nikhil Naresh Dhage** in partial fulfilment of the requirement for award of Diploma in Advanced Computing Course.

Mrs. Sonali Moghal

Project Guide

Mr. Rohit Puranik

Course Co-Coordinator

Date: 11/03/2023

Acknowledgement

We are grateful to our respectable teacher, **Mr. Rohit Puranik** (Center Coordinator, IACSD, Pune), **Mrs. Sonali Moghal** (Project Guide), whose insightful leadership and knowledge benefited us to complete this project successfully. Thank you so much for your continuous support and presence whenever needed.

We are deeply indebted and grateful to them for their guidance, encouragement and deep concern for our project. Without their critical evaluation and suggestions at every stage of the project, this project could never have reached its present form.

We would like to thank him for giving us valuable suggestions and ideas, as well as the college that provided all of the resources needed in order for it to be successful.

Last but not the least we thank the entire faculty and the staff members of Institute for Advanced Computing & Software Development, Pune for their support.

Ajinkya Rokade(229007)
Nikhil Dhage(229175)

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1. Introduction

Online property dealing website provides common platform for certified sellers and customers to rent, sell, buy properties including flats, bungalow, plots, commercial offices, shops and student PG etc.

It will also bridge the gap between customers and certified property sellers, where sellers will be able to advertise their properties on this platform and customers will be able to search for properties, view property details, book appointment, contact property owners or agents, book and reserve properties, review sellers and properties and make payments through the platform both with comfort of their home and will also enable customers to avail property related services like packing and moving, Electrical and Plumbing maintenance, pest control, Cleaning etc.

This system will provide a platform to certified home line property sellers and buyers which will keep record of legal properties available for sale or on rent with their rates and make this available to customers at one place where customers can pay rent.

The motive of developing this application is to design a feature rich search engine which can make the search of commercial land/properties an easy task.

This web application's frontend is developed with React JS, backend with Spring boot and for data persistence MySQL RDBMS is used.

1.1 Purpose of the project

This is initiative to create an online platform for customers to rent/buy properties at best and competitive price and will act as a broker between customer and seller with zero brokerage fees. This platform_will also serve the customers with relevant services with reasonable rates.

1.2 Scope

The scope of this project would include designing and developing a digital platform that allows certified sellers to advertise their properties online and allows customers to visit the properties online with ocean of data regarding the property. This platform will allow users to search for properties using various filters such as location, price, property type, and amenities. Users will be able to view detailed information about properties, including images, floor plans, and amenities. They will also be able to contact property owners or agents and make bookings or reservations. A payment gateway will be integrated to facilitate transactions

2. Business Requirements Overview

- It is the public web application.
- There are mainly three types roles first admin, second is seller and third one is customer.
- The Users will search for the properties and will contact seller, schedule appointment and book property.
- The administrator is maintaining the user profiles, sellers and properties listed.
- The user will have to register and login first in order to view the property.
- This platform could be maintained by Administrator.

3. System Features and Requirements

3.1 Functional Requirements

User Module -

- **User registration and login**

Users will be able to register and create accounts on the site. They will also be able to log in to their accounts to access additional features such as property booking and reservation.
- **Property searching**

Users will be able to search for properties using various filters such as location, price, property type, and amenities. They will be able to view detailed information about properties, including images, floor plans, and amenities.
- **Contact property owner or agent**

Users will be able to contact property owners or agents through the platform. They will be able to send messages, make phone calls, or schedule appointments through the site.
- **Property booking and reservation**

Users will be able to book and reserve properties through the platform. They will be able to select dates and times for their booking or reservation.
- **Services booking and scheduling**

Users will be able to book relevant services like Moving and packing, pest control and cleaning, Electrical and Plumbing maintenance and will also be able to schedule the booking as per their requirement.
- **Payment gateway integration**

A payment gateway will be integrated into the platform to facilitate transactions for paying rents. Users will be able to make payments for property bookings or reservations through the site.
- **Reviews**

Users will be able to post reviews about seller and property after visit to the property and also will be able to rate the property.

Seller Module

- **Seller registration and login**

Seller will be able to register and create account on this platform with required documents for verification, Admin panel will verify the

documents and information regarding seller and upon verification seller will be able to list the properties.

- **Property Listing**

Upon verification, seller will be able to list the properties with legal documents such as RERA registration, NOC, Municipal registration documents etc. Admin panel will verify the documents and property will be listed to the platform available for users.

- **Property De-listing**

After booking or renting, seller will be able to de-list the property from the platform.

- **Update property**

Seller will be able to update the property based on the current status of property.

Admin Module:

- **Admin panel for managing properties and users**

An admin panel will be provided for managing properties sellers and users. Admins will be able to add, edit, and delete properties and users. They will also be able to view and manage bookings and reservations.

- **Admin data management**

Admins will be able to access all the statistical data related to properties, sellers and users in the form of graphs, pie charts and tables.

3.2 Non-Functional Requirements

1. Security

The system's back-end servers shall only be accessible to authenticated administrators. Sensitive data will be encrypted before being sent over insecure connections like the internet.

2. Availability

The system should be available at all times, meaning the user can access it using a web browser, only restricted by the downtime of the server on which the system

runs. In case of an of a hardware failure or database corruption, a replacement page will be shown. Also, in case of a hardware failure or database corruption, backups of the database should be retrieved from the server and saved by the administrator. Then the service will be restarted. It means 24 X 7 availability.

3. Reliability

The reliability of the overall program depends on the reliability of the separate components. The main pillar of the reliability of the system is the backup of the database which is continuously maintained and updated to reflect the most recent changes. Thus, the overall stability of the system depends on the stability of container and its underlying operating system.

4. Maintainability

A commercial database is used for maintaining the database and the application server takes care of the site. In case of a failure, a re-initialization of the program will be done. Also, the software design is being done with modularity in mind so that maintainability can be done efficiently.

5. Accessibility

The system will be a web-based application it is going to be accessible on the web browser.

6. Back up

We will take a backup in our system database. In order to enable the administrator and the user to access the data from our system.

7. Performance

The product shall be based on web and has to be run from a web server. The product shall take initial load time depending on internet connection strength which also depends on the media from which the product is run. The performance shall depend upon hardware components of the client/customer.

8. Supportability

The source code developed for this system shall be maintained in configuration management tool.

4. DATABASE DESIGN

4.1 Database Design

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. The following table structures depict the database design.

1. Admin

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
email	varchar(50)	YES	UNI	NULL	
name	varchar(50)	YES		NULL	
password	varchar(50)	NO		NULL	

2. Appointment

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI	NULL	auto_increment
appointment_date	date	YES		NULL	
status	varchar(30)	YES		NULL	
buyer_id	bigint	YES	MUL	NULL	
property_id	bigint	YES	MUL	NULL	

3. Buyer

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
city	varchar(50)	NO			
line1	varchar(60)	NO			
line2	varchar(60)	NO			
pincode	int	NO			
state	varchar(60)	NO			
email	varchar(50)	NO	UNI		
first_name	varchar(30)	NO			
last_name	varchar(30)	NO			
mob_no	bigint	NO			
password	varchar(50)	NO			

4. Feedbacks

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
comments	varchar(200)	YES			
rating	int	NO			
propert_id	bigint	YES	MUL		

5. Image

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
image_url	varchar(100)	YES			
property_id	bigint	YES	MUL		

6. Owner

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
city	varchar(50)	NO			
line1	varchar(60)	NO			
line2	varchar(60)	NO			
pincode	int	NO			
state	varchar(60)	NO			
mobile_no	bigint	YES			
email	varchar(50)	YES	UNI		
first_name	varchar(50)	YES			
last_name	varchar(50)	YES			
password	varchar(50)	YES			

7. Properties

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
city	varchar(50)	NO			
line1	varchar(60)	NO			
line2	varchar(60)	NO			
pincode	int	NO			
state	varchar(60)	NO			
amenities	varchar(300)	YES			
total_area	double	NO			
no_of_bedrooms	int	NO			
description	varchar(50)	YES			
name	varchar(50)	NO			
price	double	NO			
prop_type	varchar(50)	NO			
property_for	int	NO			
registration_id	int	NO			
status	varchar(50)	YES			
buyer_id	bigint	YES	MUL		
owner_id	bigint	YES	MUL		

8. wishlist

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
buyer_id	bigint	YES	MUL		

9. property_wishlist

Field	Type	Null	Key	Default	Extra
wishlist_id	bigint	NO	MUL		
property_id	bigint	NO	MUL		

10. Service

Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
description	varchar(200)	YES			
service_name	varchar(50)	NO			
rate	double	NO			
vendor_name	varchar(50)	NO			

11. service_buyer

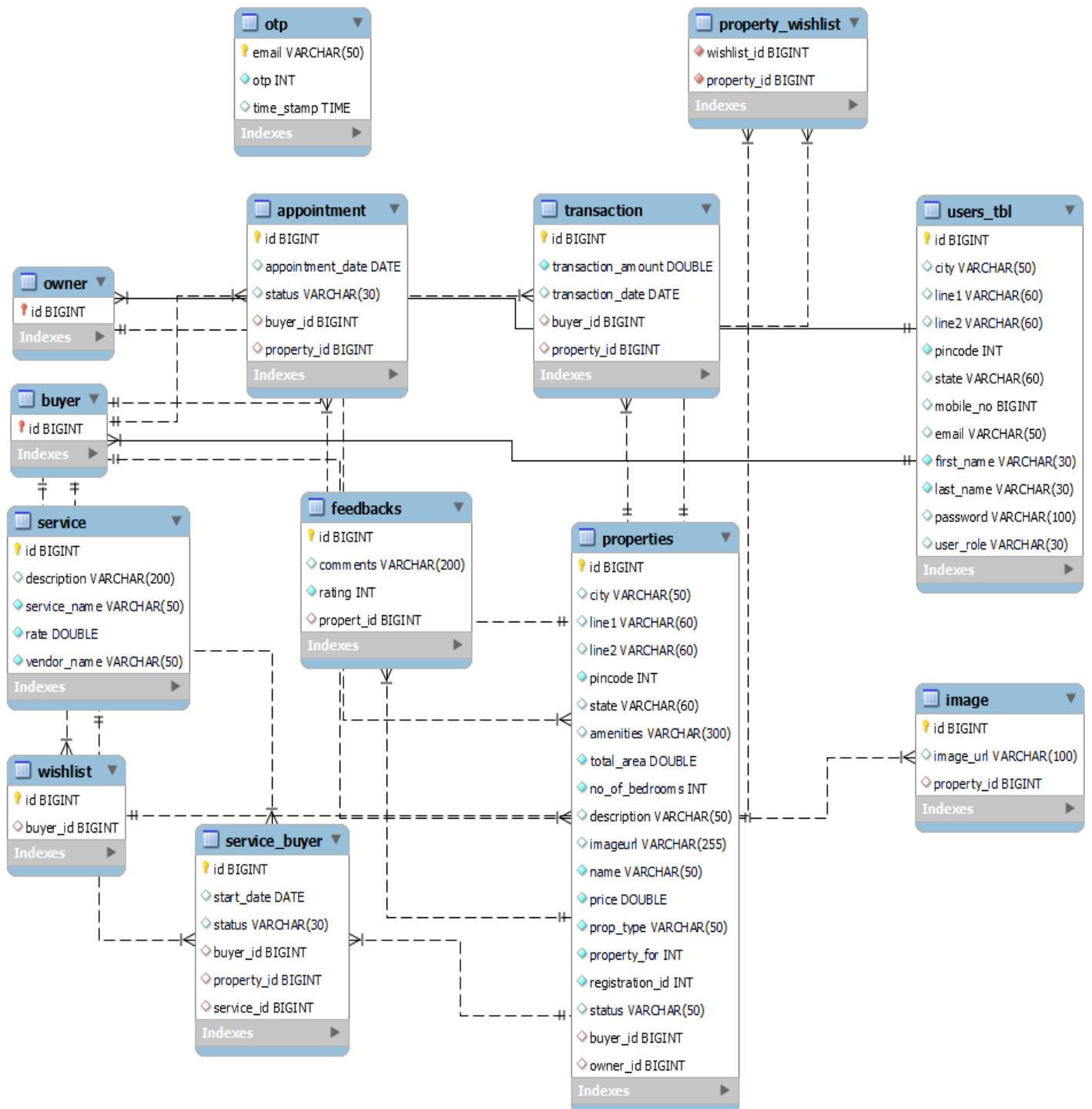
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
start_date	date	YES			
status	varchar(30)	YES			
buyer_id	bigint	YES	MUL		
property_id	bigint	YES	MUL		
service_id	bigint	YES	MUL		

12. Transaction

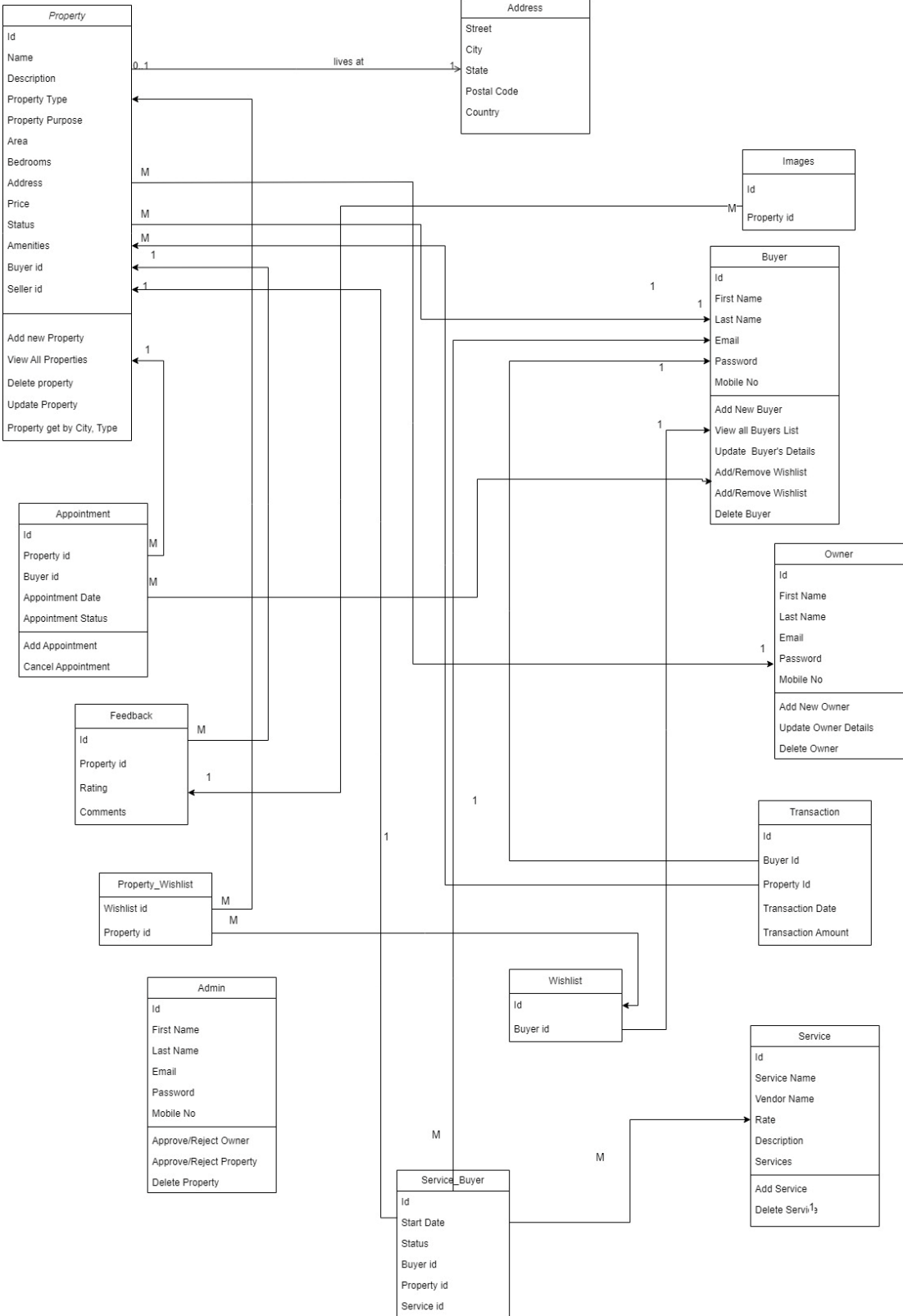
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
transaction_amount	double	NO			
transaction_date	date	YES			
buyer_id	bigint	YES	MUL		
property_id	bigint	YES	MUL		

UML Diagrams

Entity Relationship Diagram:

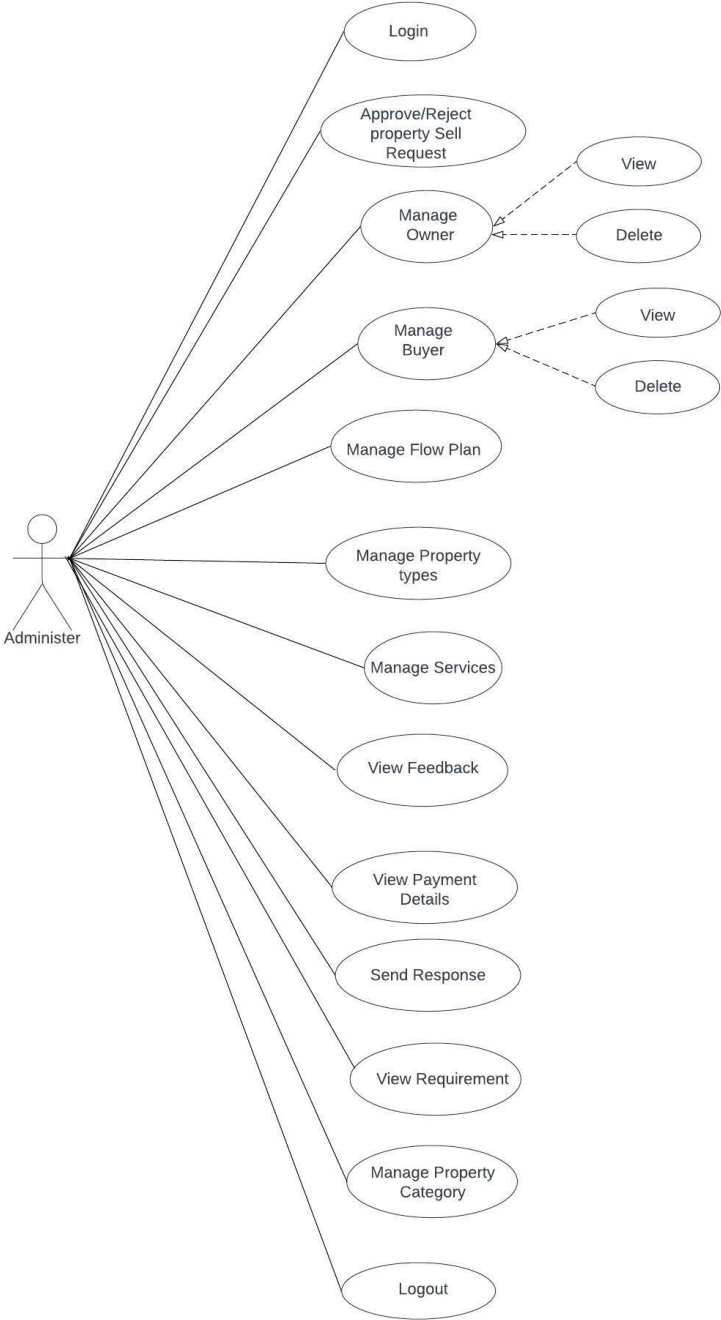


Class Diagram



Use Case Diagram

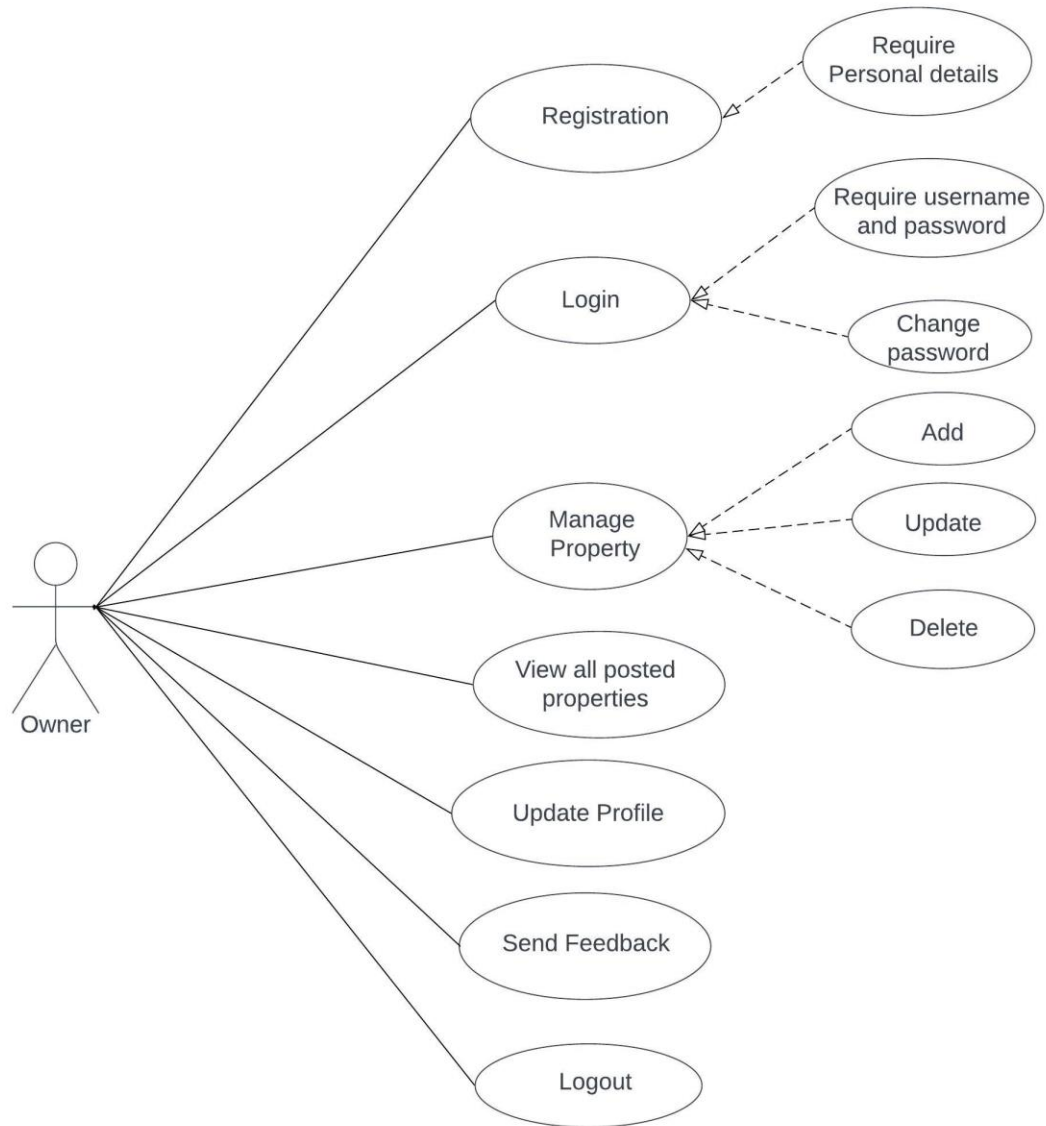
Admin Use Case



Buyer Use Case Diagram

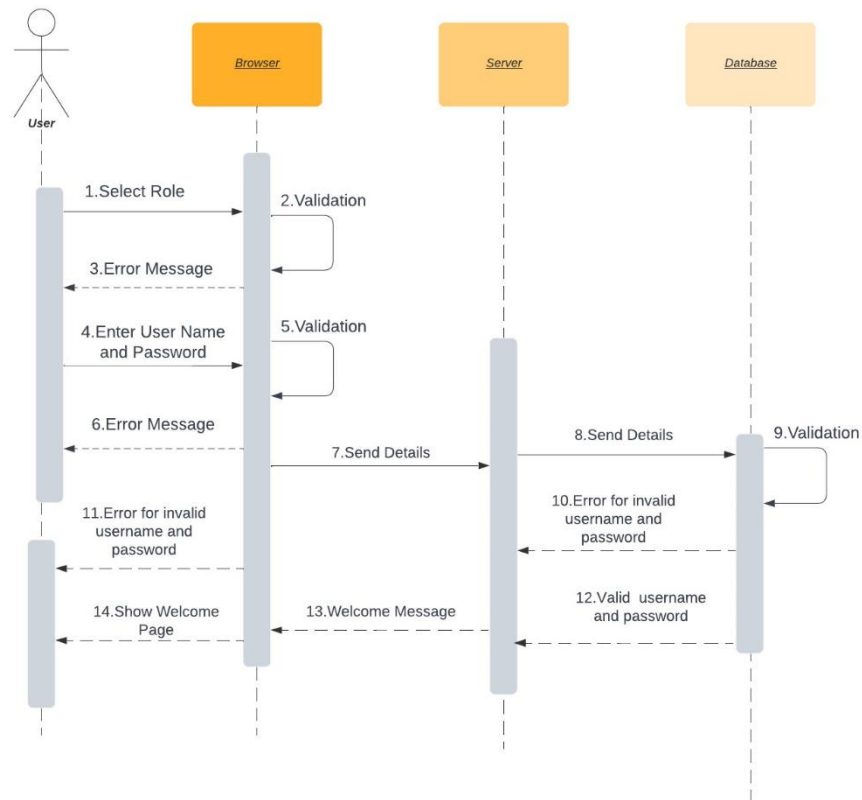


Owner Use Case

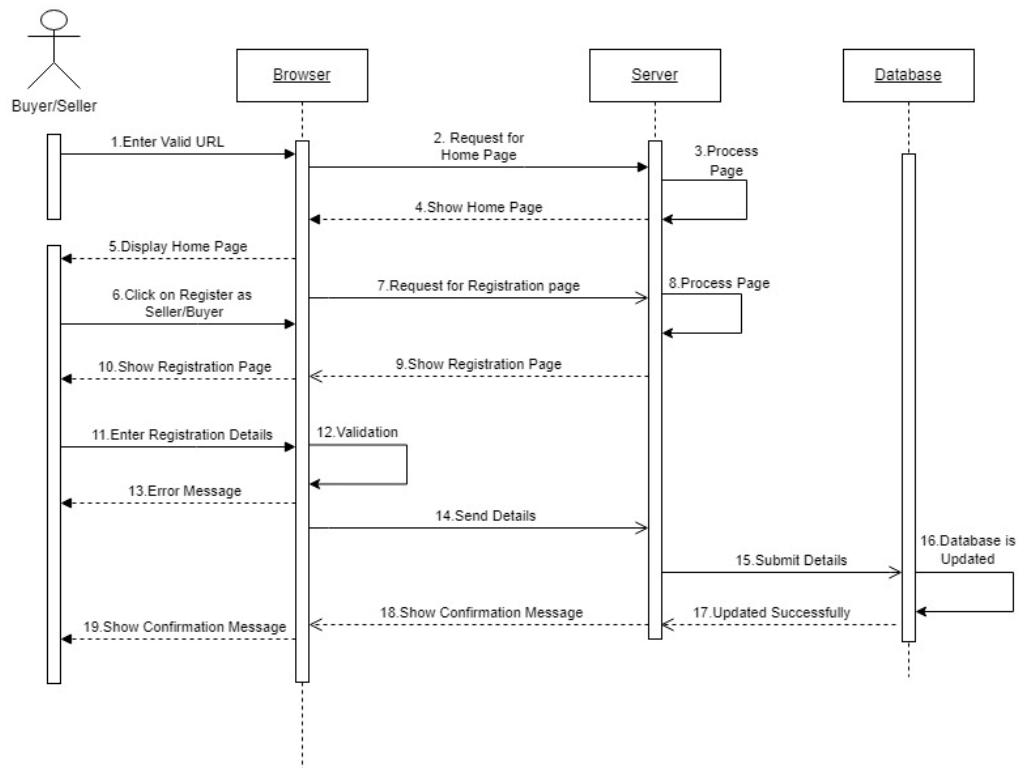


Sequence Diagram

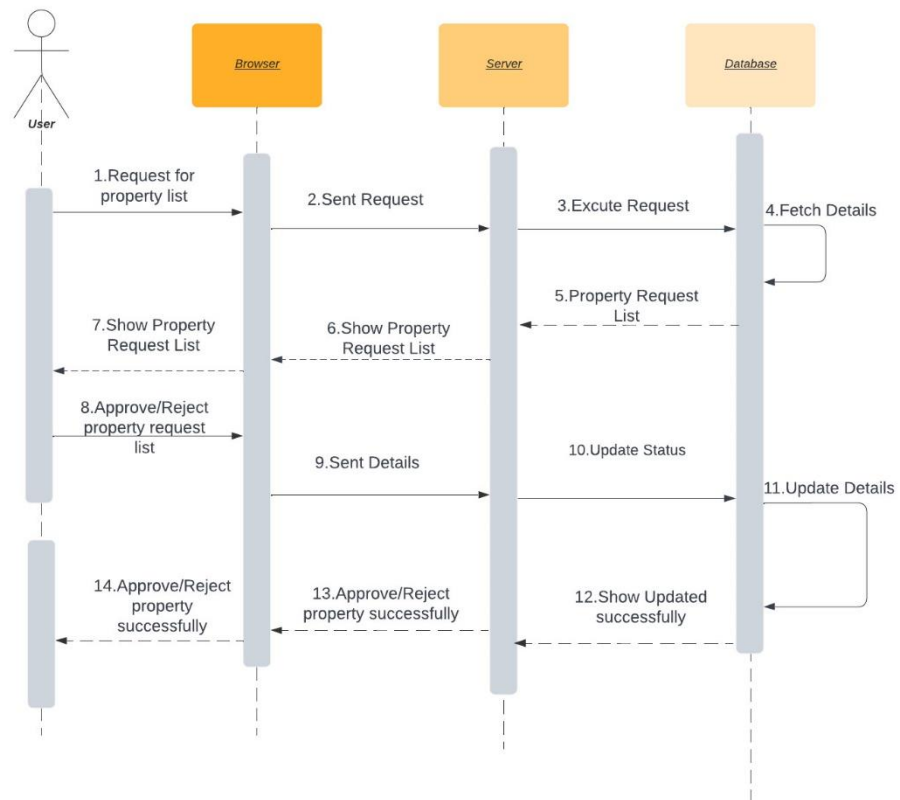
Login Sequence diagram



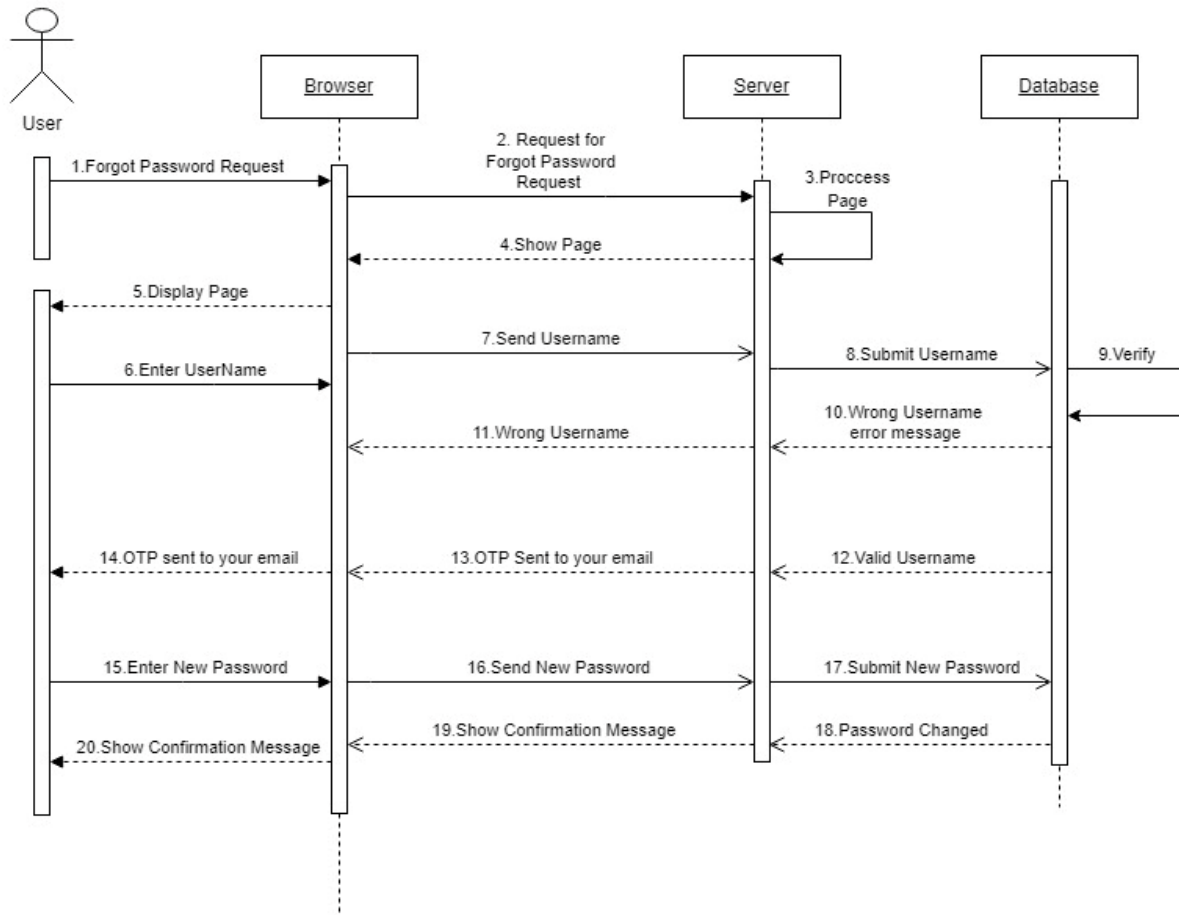
RegistrationBuyerSeller



Approve_Reject Admin Sequence diagram



Forgot Password



Screen Shots

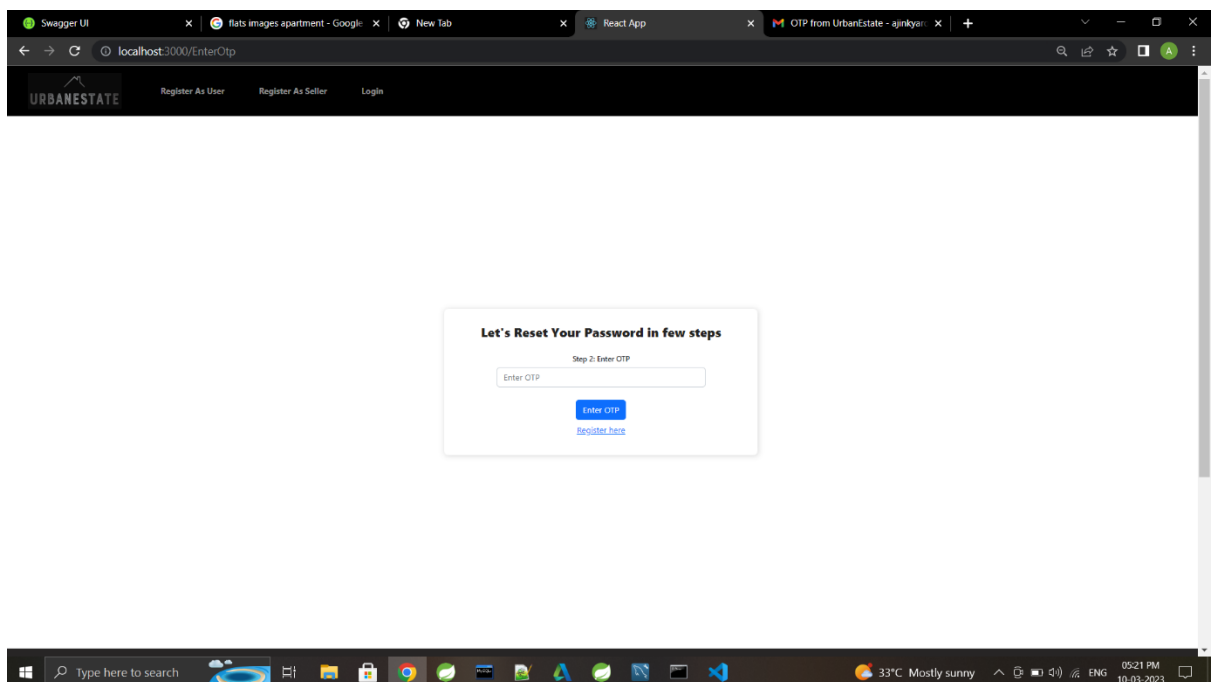
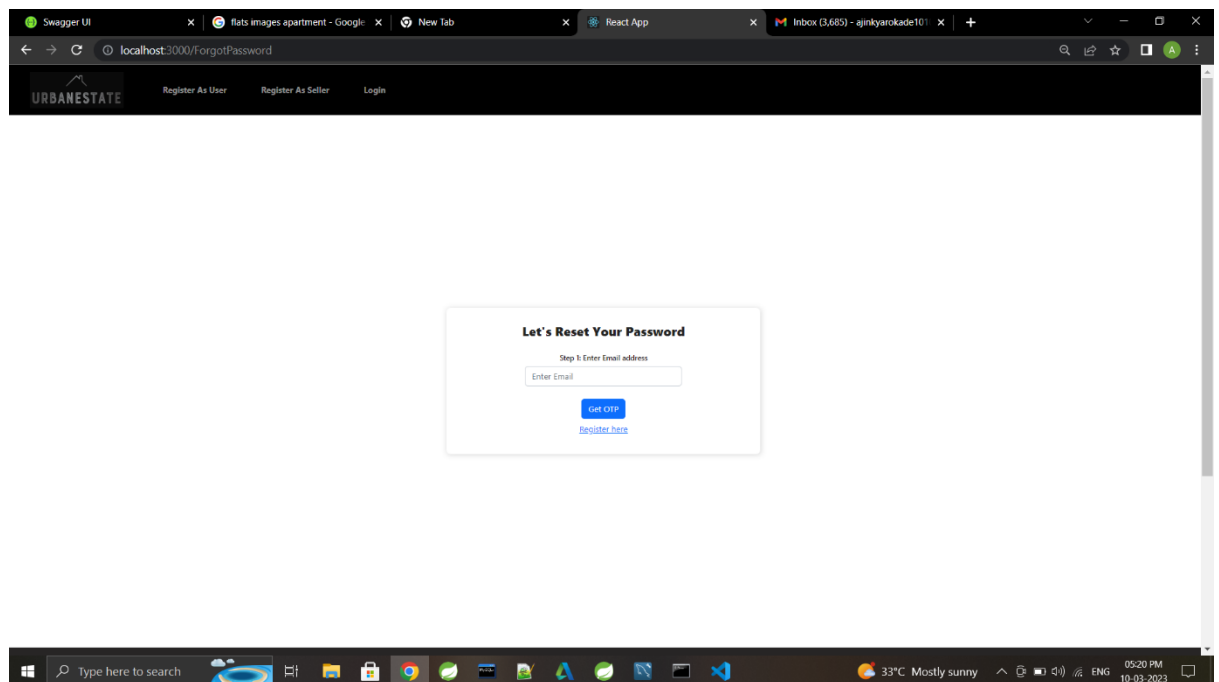
Signup/Register New User

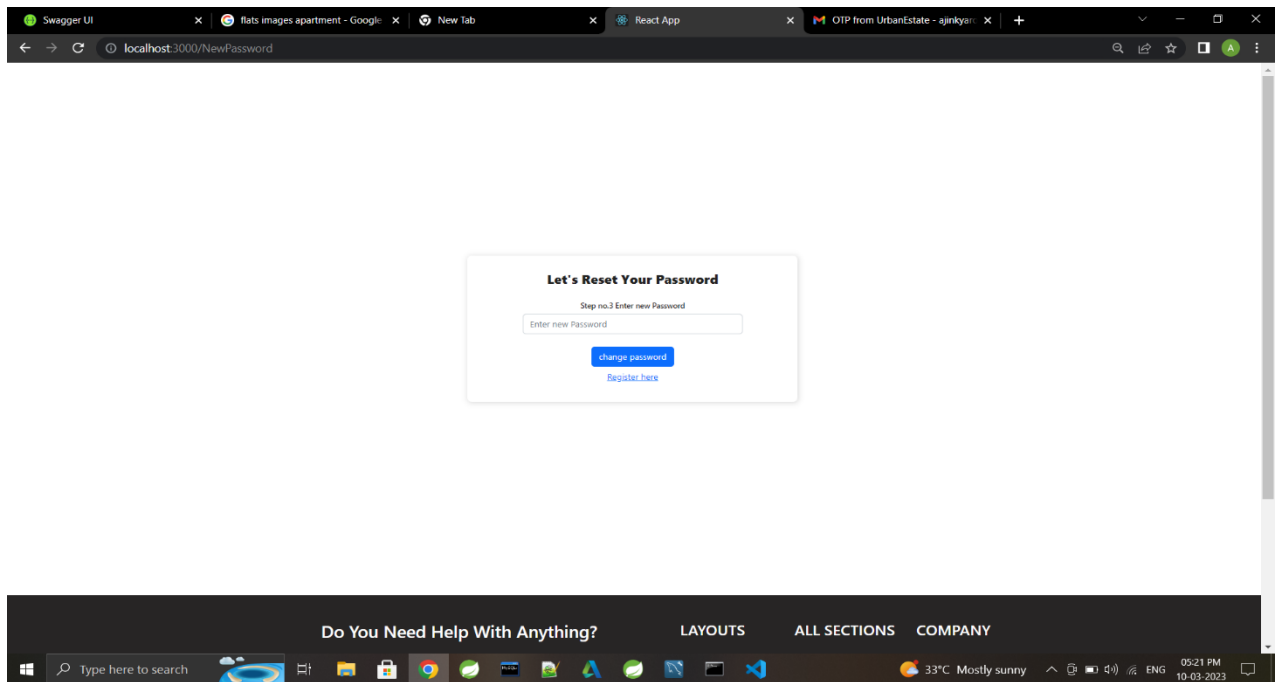
The screenshot shows a web browser window with the URL `localhost:3000/SignUpUser`. The page features a dark header with the URBANESTATE logo and navigation links: "Register As User", "Register As Seller", and "Login". The main content area displays a "Register here" form with the following fields: "Email address" (with a sub-label "Enter Email"), "Password" (with a sub-label "Enter Password"), "First Name" (with a sub-label "Enter Firstname"), "Last Name" (with a sub-label "Enter Lastname"), "Mobile Number" (with a sub-label "Enter Mobile Number"), "Address Line 1" (with a sub-label "Enter address line1"), "Address Line 2" (with a sub-label "Enter state"), "City" (with a sub-label "Enter city"), "State" (with a sub-label "Enter state"), and "Pincode" (with a sub-label "Enter state"). A "Sign Up" button is located below the fields, followed by a link "Already Registered ? Login here". The Windows taskbar at the bottom shows the system time as 05:20 PM on 10-03-2023.

Sign In

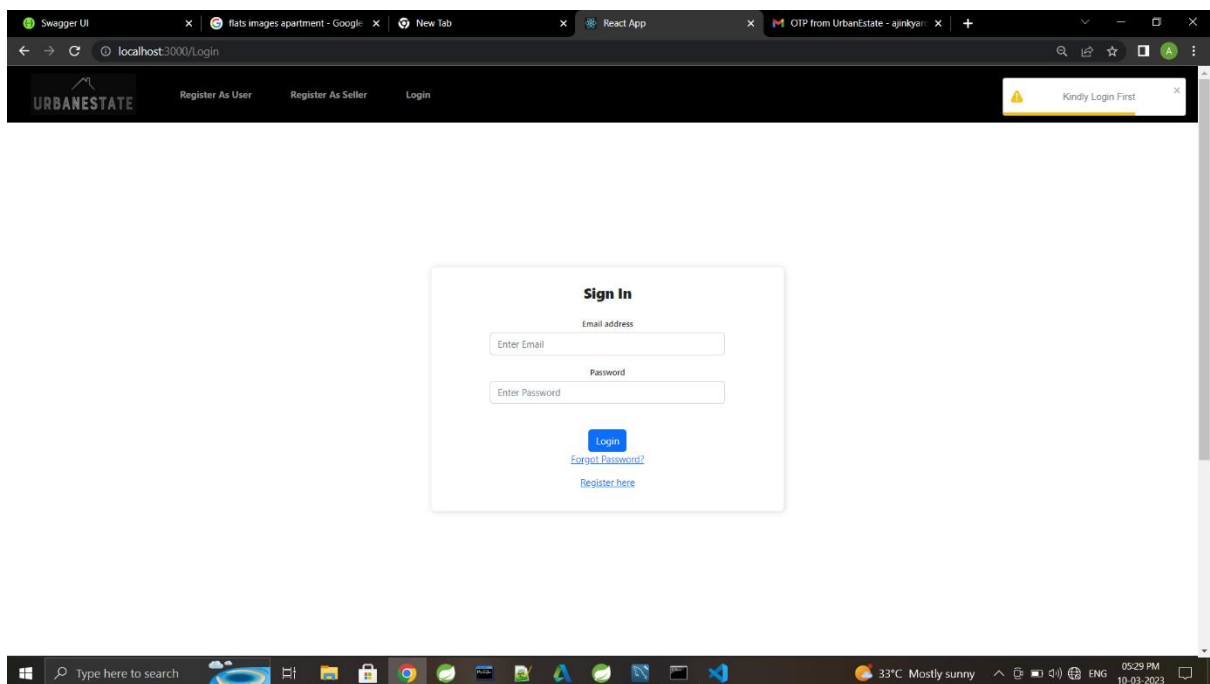
The screenshot shows a web browser window with the URL `localhost:3000/Login`. The page features a dark header with the URBANESTATE logo and navigation links: "Register As User", "Register As Seller", and "Login". The main content area displays a "Sign In" form with the following fields: "Email address" (with a sub-label "Enter Email") and "Password" (with a sub-label "Enter Password"). Below the password field is a CAPTCHA challenge with the text "I'm not a robot" and a "Login" button. Links for "Forgot Password?" and "Register here" are located at the bottom of the form. The Windows taskbar at the bottom shows the system time as 05:20 PM on 10-03-2023.

Forgot Password

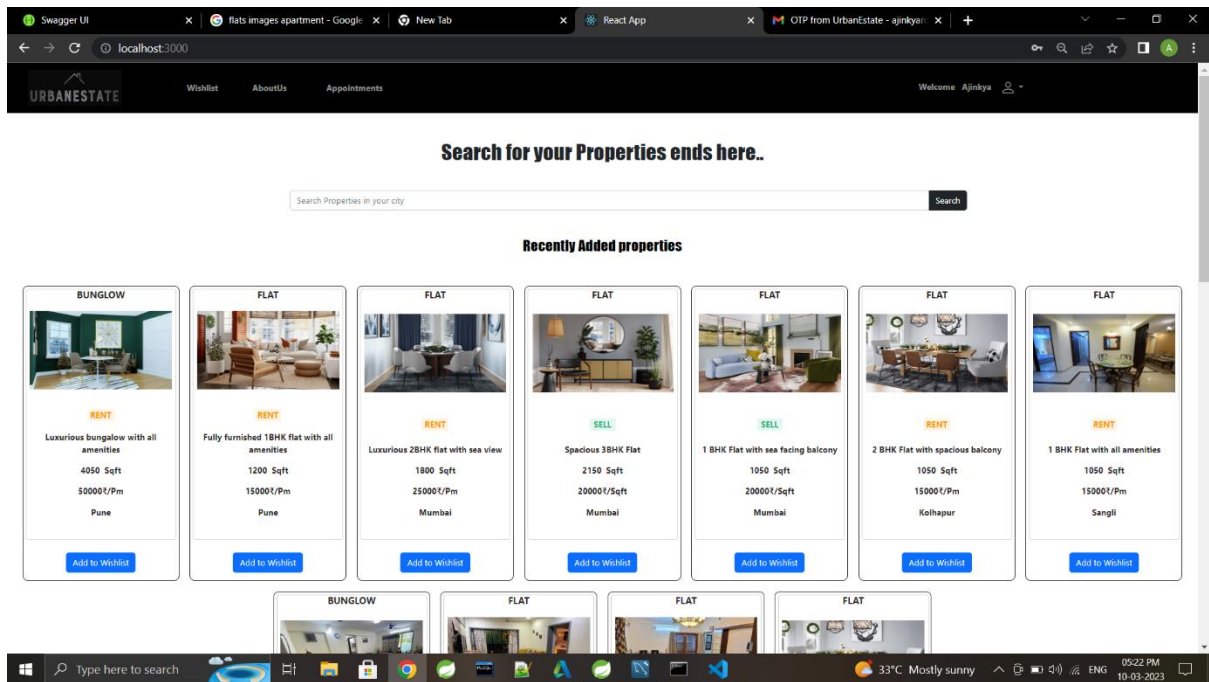




Login Message



Home Page After Login



The screenshot shows the UrbanEstate web application after a user login. The browser window has multiple tabs open, including 'Swagger UI', 'flats images apartment - Google', 'New Tab', 'React App', and 'OTP from UrbanEstate - ajinky'. The address bar shows 'localhost:3000'. The website header includes the 'URBANESTATE' logo, navigation links for 'Wishlist', 'AboutUs', and 'Appointments', and a user profile section with 'Welcome Ajinky'.

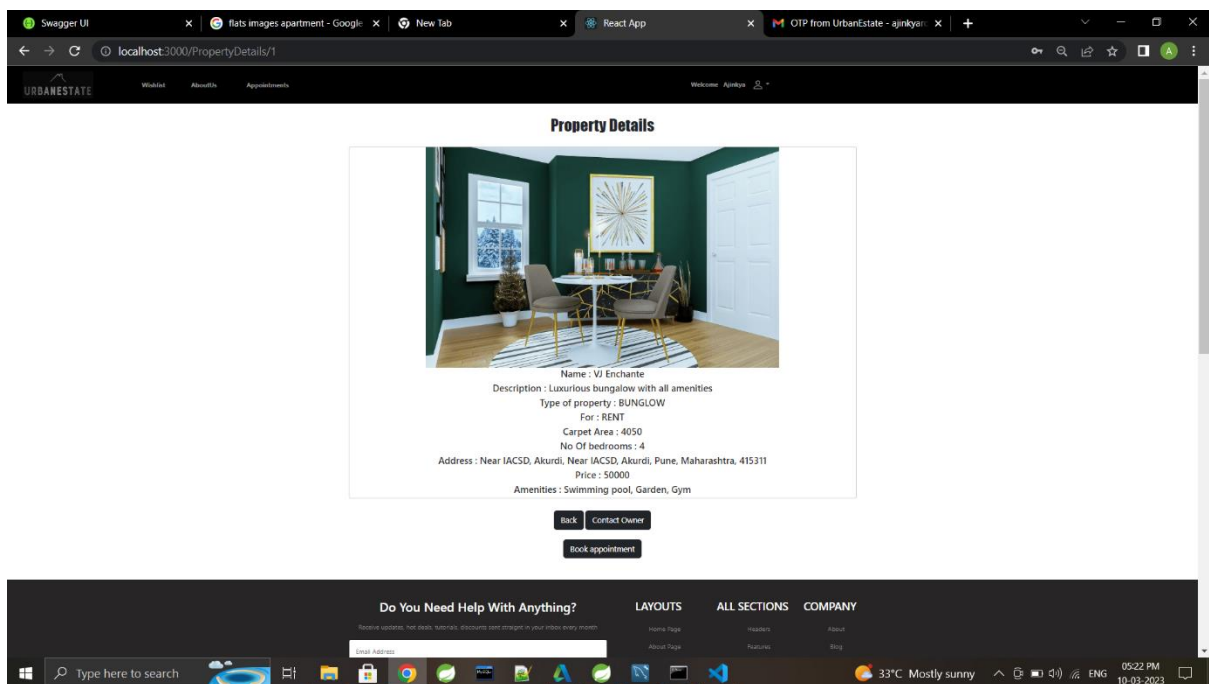
The main heading is 'Search for your Properties ends here..'. Below it is a search bar with the placeholder text 'Search Properties in your city' and a 'Search' button.

The 'Recently Added properties' section displays a grid of property cards. Each card includes a property type (BUNGLOW or FLAT), a 'RENT' or 'SELL' status, an image, a description, area (Sqft), price (Per Sqft or Total Price), and location. Each card also has an 'Add to Wishlist' button.

Property Type	Status	Description	Area (Sqft)	Price	Location
BUNGLOW	RENT	Luxurious bungalow with all amenities	4050	50000/Pm	Pune
FLAT	RENT	Fully furnished 1BHK flat with all amenities	1200	15000/Pm	Pune
FLAT	RENT	Luxurious 2BHK flat with sea view	1800	25000/Pm	Mumbai
FLAT	SELL	Spacious 3BHK Flat	2150	20000/Pm	Mumbai
FLAT	SELL	1 BHK Flat with sea facing balcony	1050	20000/Pm	Mumbai
FLAT	RENT	2 BHK Flat with spacious balcony	1050	15000/Pm	Kolhapur
FLAT	RENT	1 BHK Flat with all amenities	1050	15000/Pm	Sangli

The footer of the page includes a search bar, a 'Type here to search' prompt, and a '33°C Mostly sunny' weather widget. The system clock shows '05:22 PM 10-03-2023'.

Property Details



The screenshot shows the 'Property Details' page for a specific property. The browser window has the same tabs as the home page, but the address bar now shows 'localhost:3000/PropertyDetails/1'. The website header is identical to the home page.

The main heading is 'Property Details'. Below it is a large image of the property's interior.

The property details are listed below the image:

- Name : VJ Enchante
- Description : Luxurious bungalow with all amenities
- Type of property : BUNGLOW
- For : RENT
- Carpet Area : 4050
- No Of bedrooms : 4
- Address : Near IACSD, Akurdi, Near IACSD, Akurdi, Pune, Maharashtra, 415311
- Price : 50000
- Amenities : Swimming pool, Garden, Gym

Below the details are three buttons: 'Back', 'Contact Owner', and 'Book appointment'.

The footer of the page includes a search bar, a 'Type here to search' prompt, and a '33°C Mostly sunny' weather widget. The system clock shows '05:22 PM 10-03-2023'.

Owner Details

Swagger UI

flats images apartment - Google

New Tab

React App

OTP from UrbanEstate - ajinkya

localhost:3000/OwnerDetails/1

URBANESTATE

Wishlist

AboutUs

Appointments

Welcome Ajinkya

Property Owner Details

Name:Ajinkya Rokade

Email:
ajinkyarokade1792@gmail.com

Phone: 7350396866

Back

Do You Need Help With Anything?

Receive updates, hot deals, tutorials, discounts sent straight in your inbox every month

Email Address

Subscribe

LAYOUTS

Home Page

About Page

Service Page

Property Page

Contact Page

Single Blog

ALL SECTIONS

Headers

Features

Attractive

Testimonials

Videos

Footers

COMPANY

About

Blog

Pricing

Affiliate

Login

Changelog

© 2023 UrbanEstate

Type here to search

33°C Mostly sunny

ENG

05:22 PM

10-03-2023

Swagger UI

flats images apartment - Google

New Tab

React App

OTP from UrbanEstate - ajinkya

localhost:3000/Wishlist

URBANESTATE

Wishlist

AboutUs

Appointments

Welcome Ajinkya

Lets Book your new Property

FLAT

RENT

Luxurious 2BHK flat with sea view

25000 ₹

1800 SqFt

Contact Owner

Book appointment

Search for More Properties

Type here to search

33°C Mostly sunny

ENG

05:23 PM

10-03-2023

Book Appointment On Particular Day

Swagger UI | flats images apartment - Google | New Tab | React App | OTP from UrbanEstate - ajnkye

localhost:3000/PropertyDetails/2

Name : VJ
Description : Fully furnished 1BHK flat with all amenities
Type of property : FLAT
For : RENT
Carpet Area : 1200
No Of bedrooms : 1
Address : Near IACSD, Akurdi, Near IACSD, Akurdi, Pune, Maharashtra, 415311
Price : 15000
Amenities : Swimming pool, Garden, Gym, Kids playing area

March, 2022

27 28 1 2 3 4 5
6 7 8 9 10 11 12
13 14 15 16 17 18 19
20 21 22 23 24 25 26
27 28 29 30 31 1 2
3 4 5 6 7 8 9

Clear Today

dd-mm-yyyy

Back Contact Owner

Book appointment

Do You Need Help With Anything? LAYOUTS ALL SECTIONS COMPANY

Type here to search

33°C Mostly sunny 05:23 PM 10-03-2023

Search Properties According to City

Swagger UI | flats images apartment - Google | New Tab | React App | OTP from UrbanEstate - ajnkye

localhost:3000

Search for your Properties ends here..

Pune Search

Recently Added properties

BUNGLOW

RENT

Luxurious bungalow with all amenities

4050 Sqft

50000₹/Pm

Pune

Add to Wishlist

FLAT

RENT

Fully furnished 1BHK flat with all amenities

1200 Sqft

15000₹/Pm

Pune

Add to Wishlist

FLAT

RENT

Well furnished 2BHK with all the amenities

2130 Sqft

17000₹/Pm

Pune

Add to Wishlist

FLAT

RENT

Luxurious 3 BHK FLAT with all amenities

2050 Sqft

50000₹/Pm

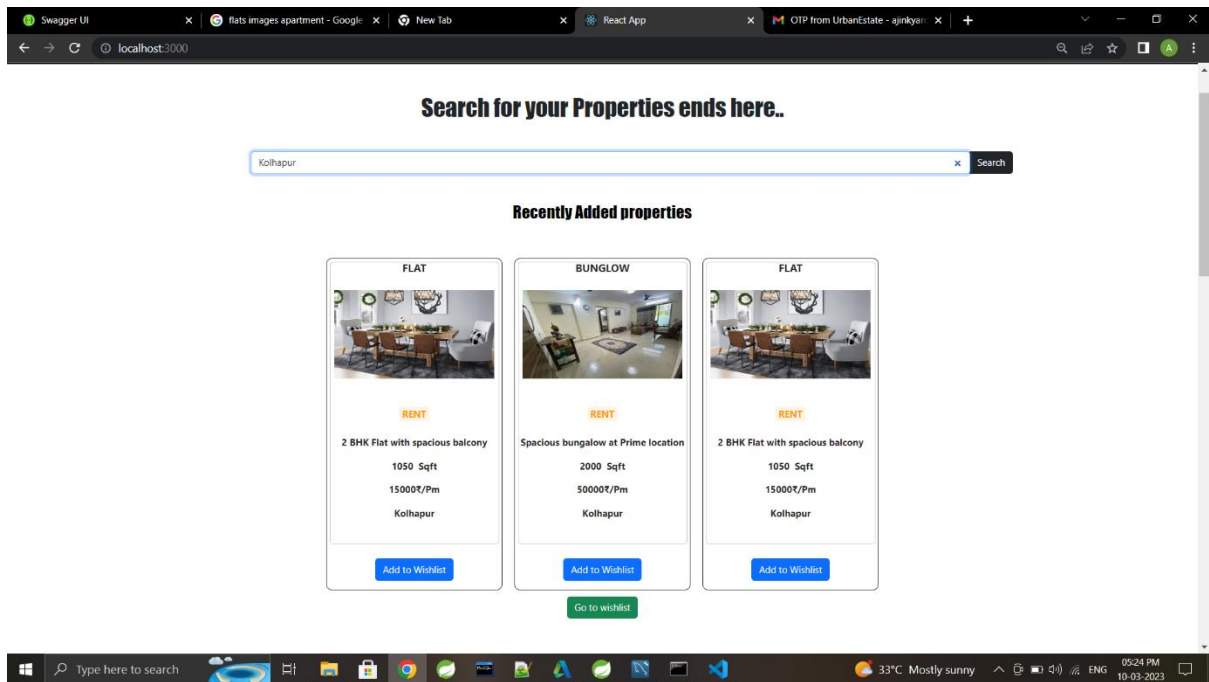
Pune

Add to Wishlist

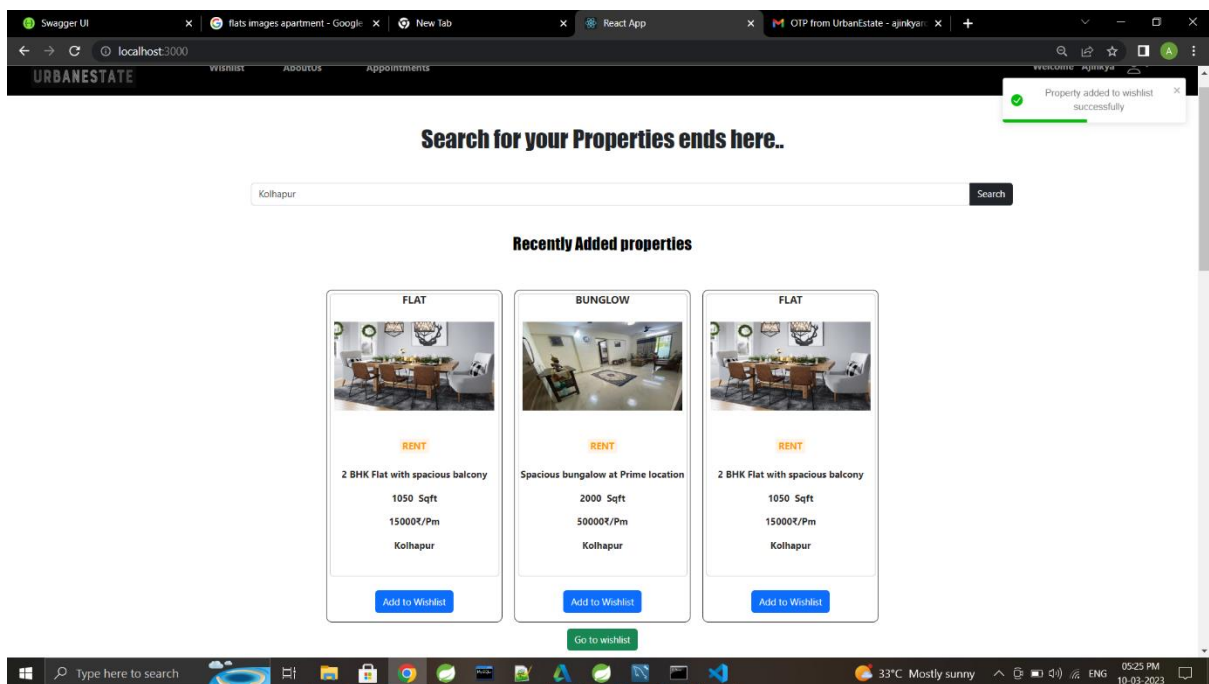
Go to wishlist

Type here to search

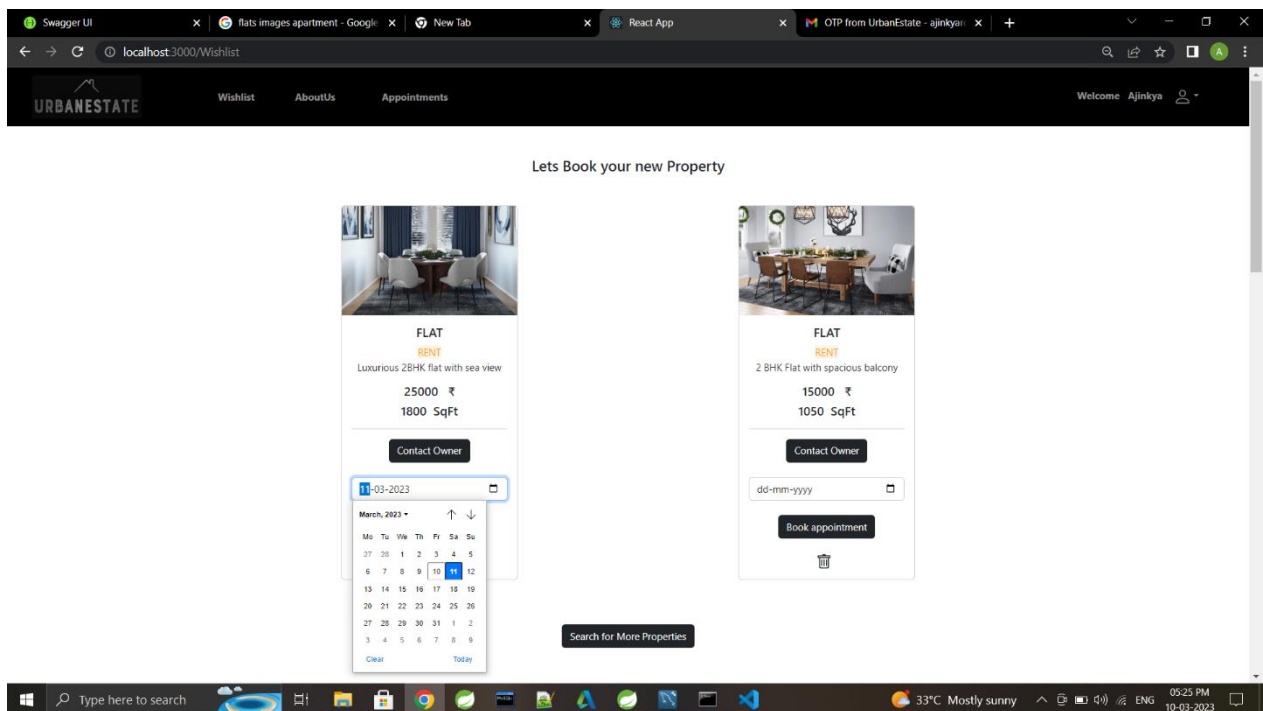
33°C Mostly sunny 05:24 PM 10-03-2023



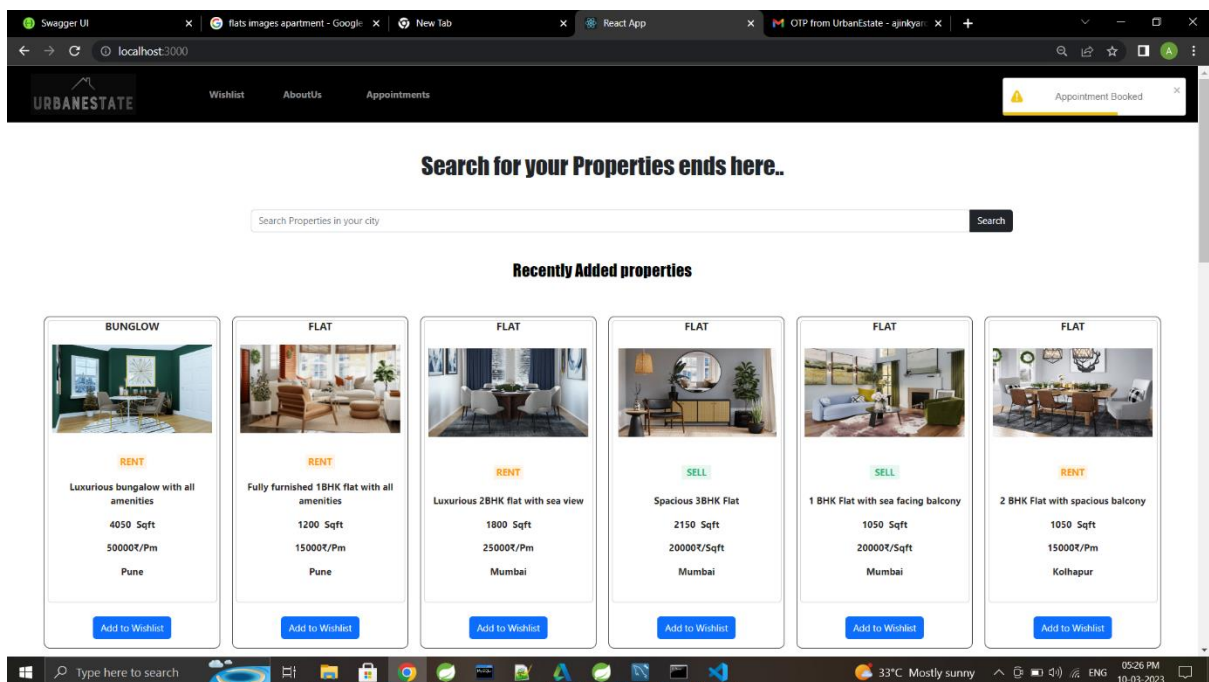
Property Added to Wishlist



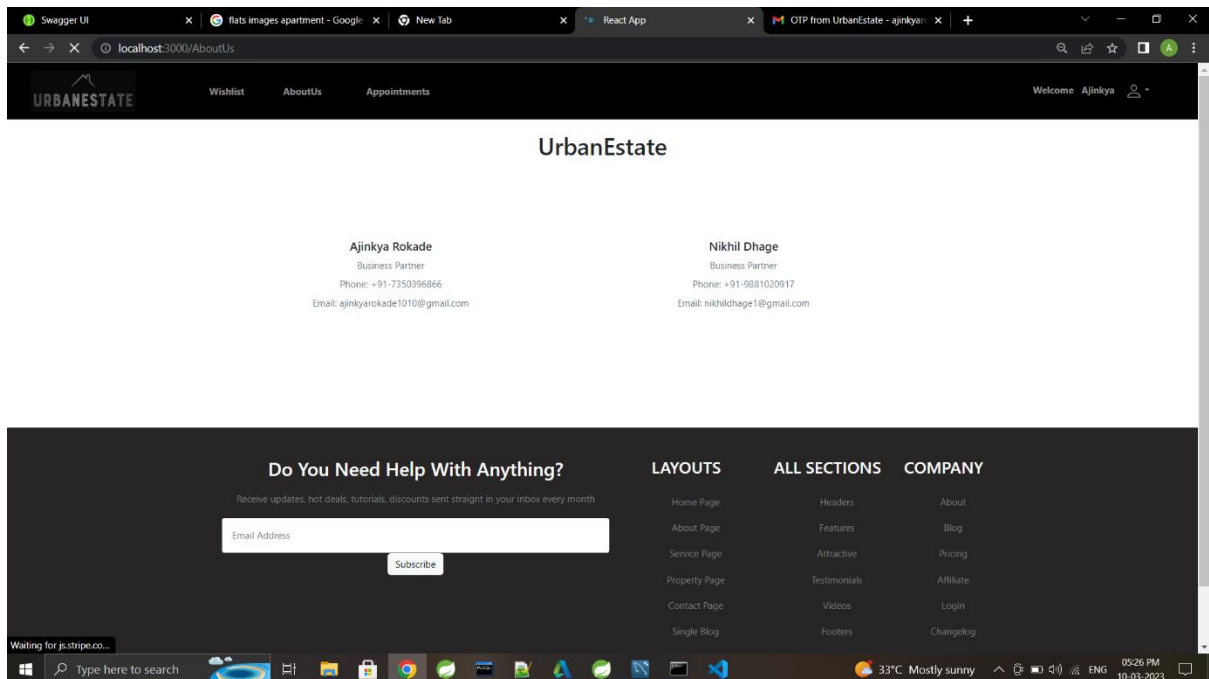
From Wishlist book appointment



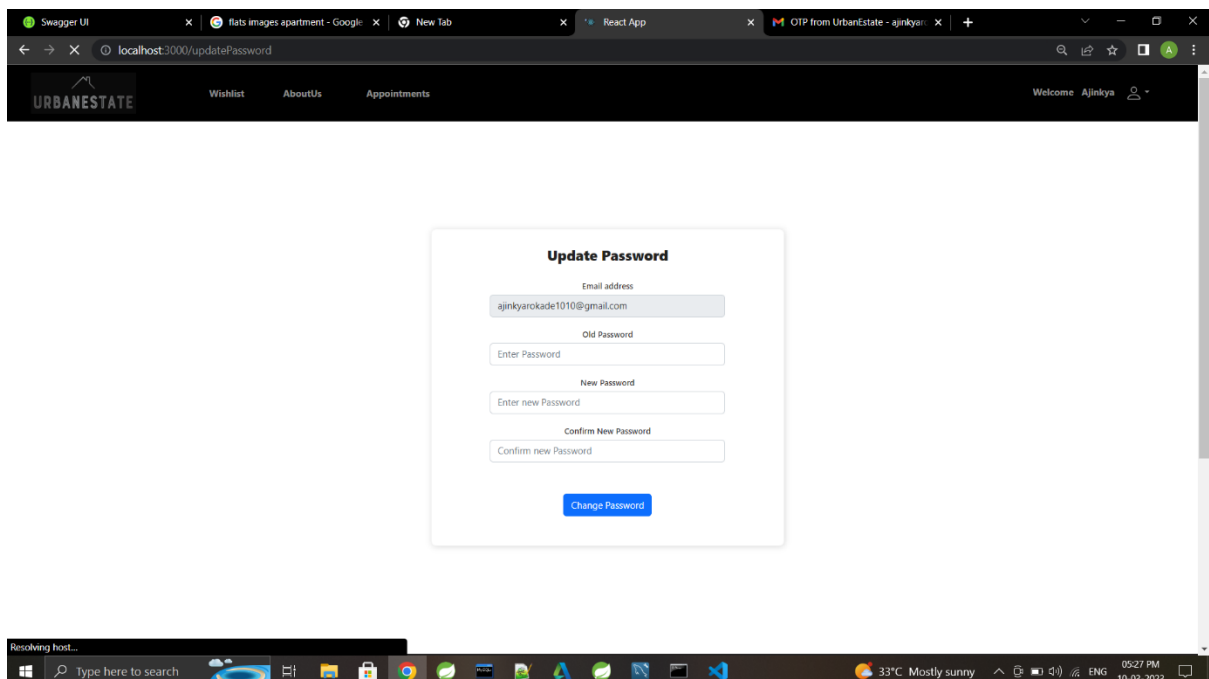
Display as Appointment booked

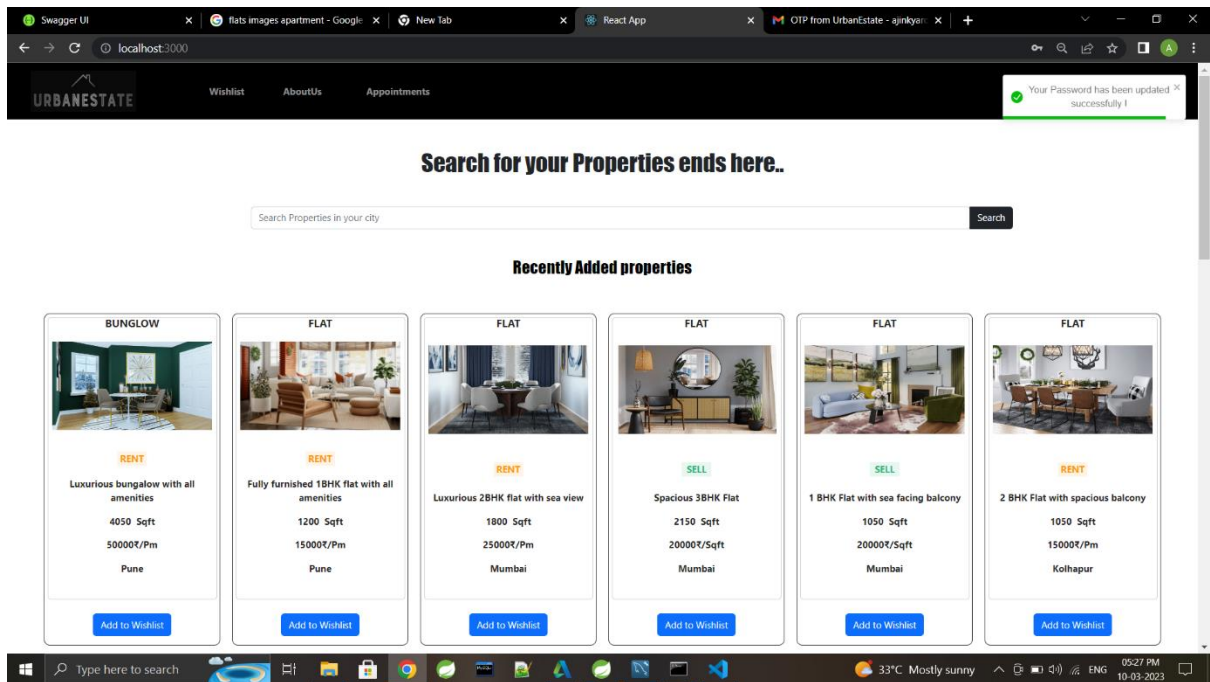


About Urban Estate Page

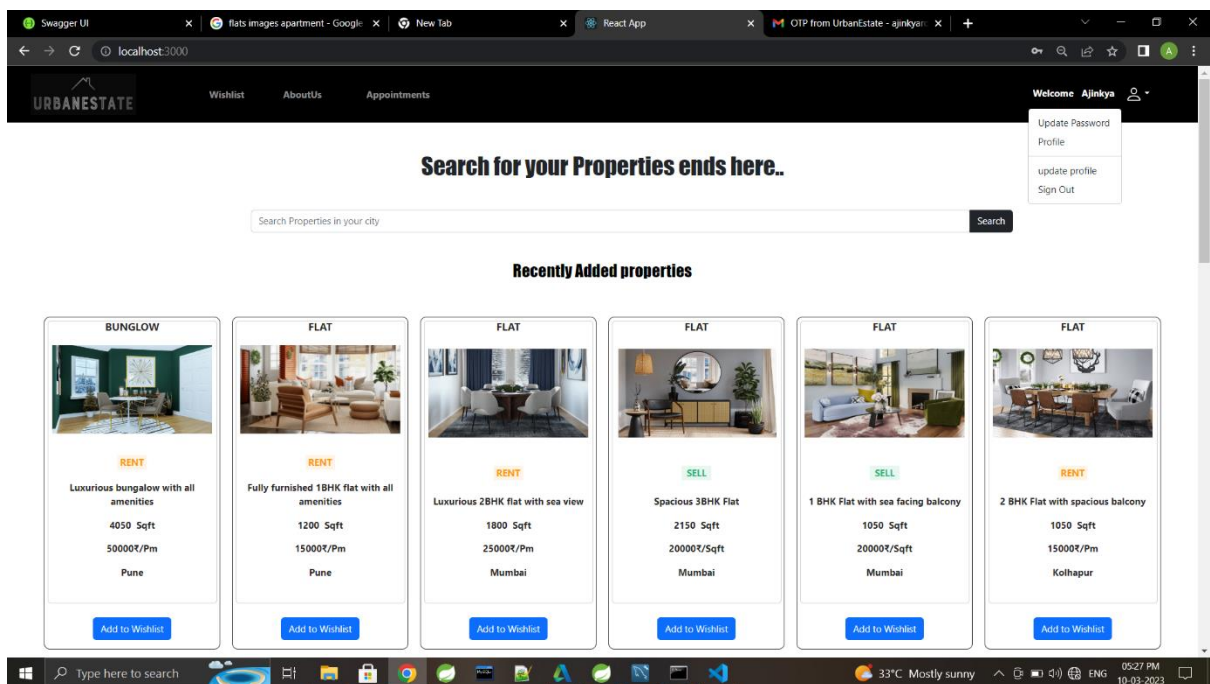


For Update New Password

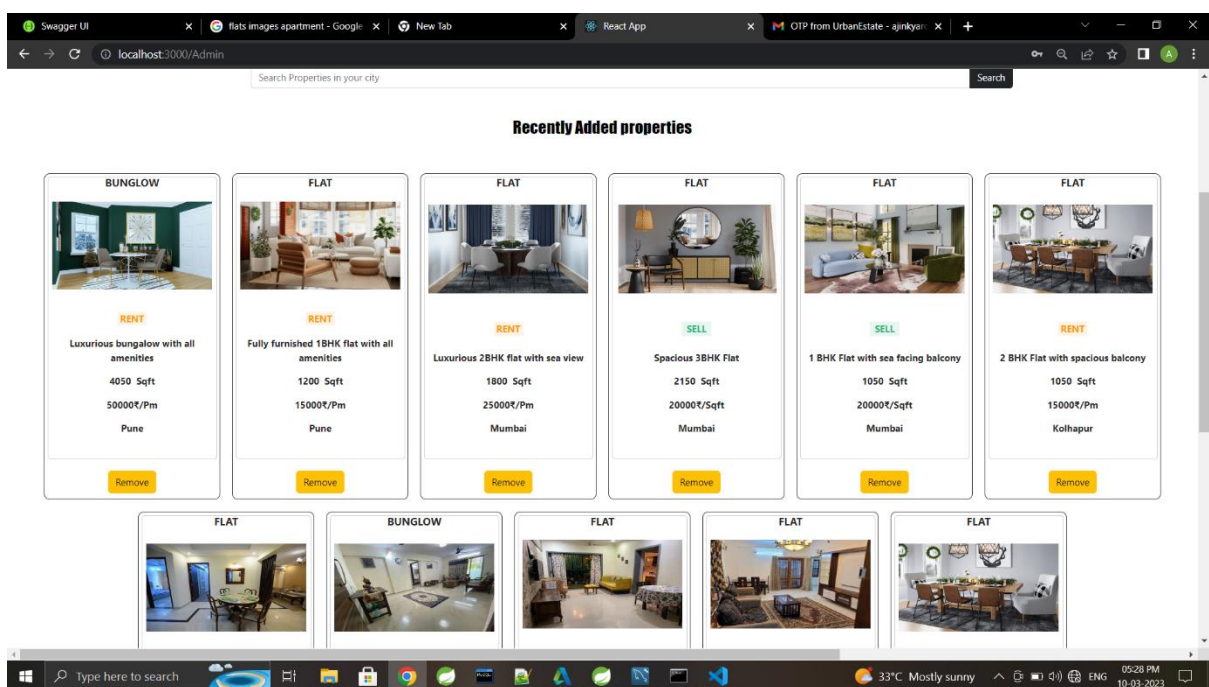
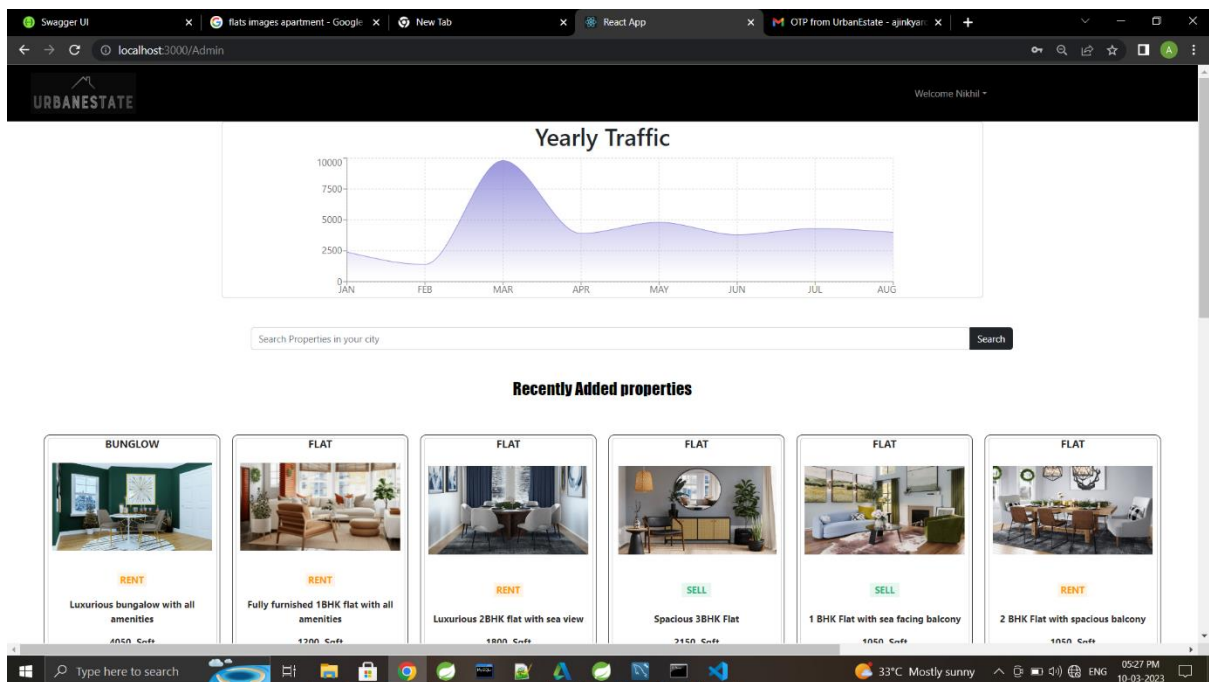


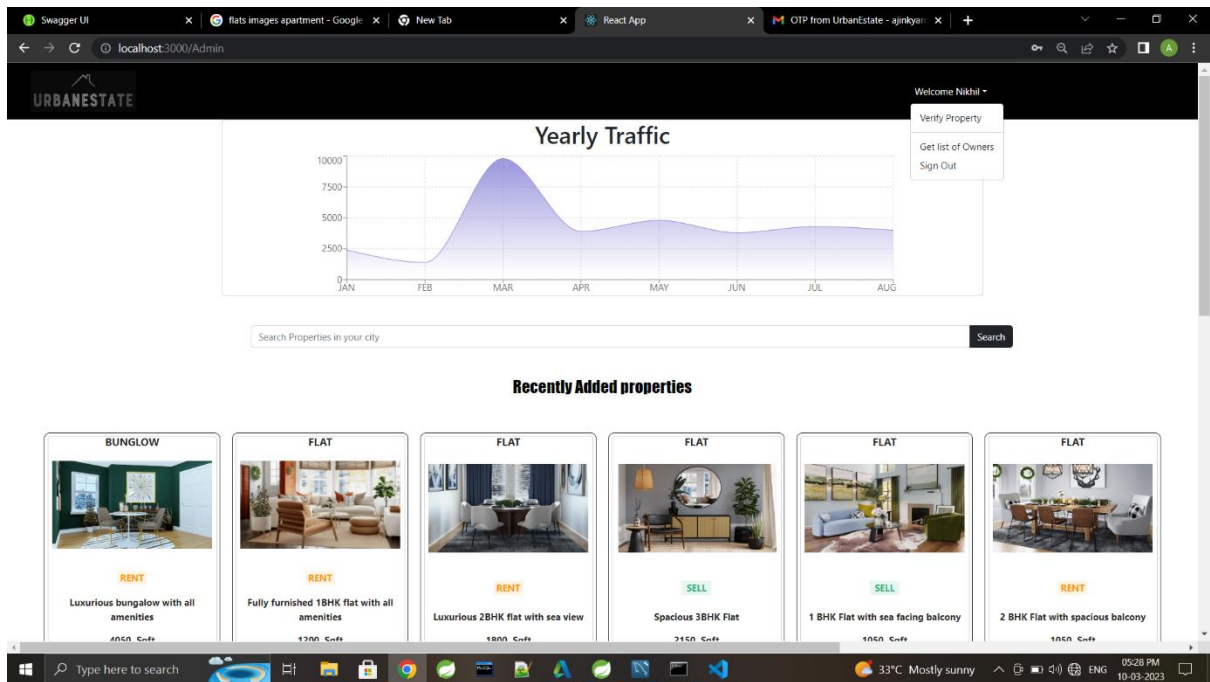


Sign Out



Signing As Admin





5. References

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- ✓ <https://docs.spring.io/spring-framework>
- ✓ <https://react-bootstrap.netlify.app/components/navbar>
- ✓ <https://stackoverflow.com>