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

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Under the Guidance of :

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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

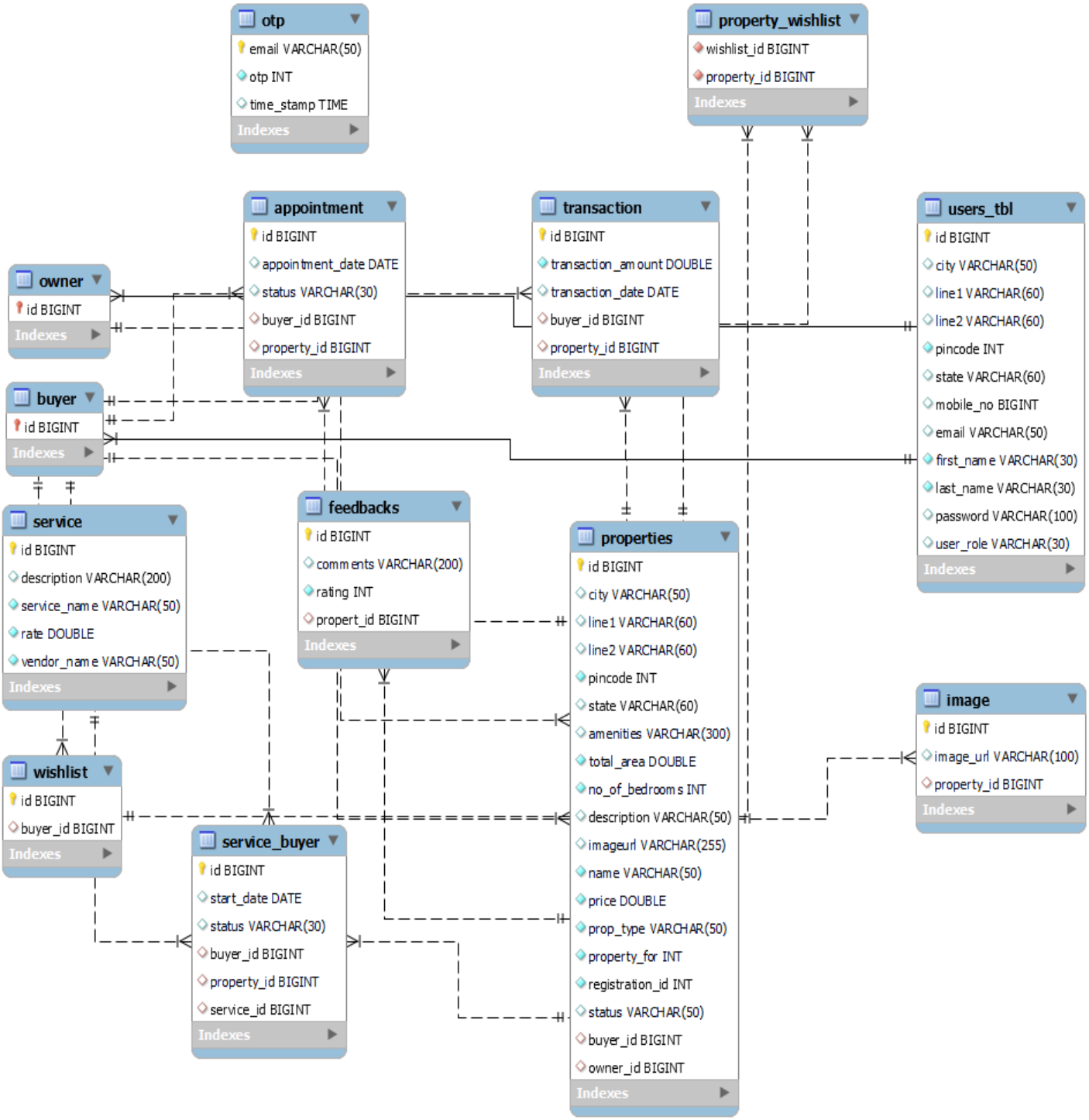
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
start_date	date	YES			
status	varchar(30)	YES			
buyer_id	bigint	YES	MUL		
property_id	bigint	YES	MUL		
service_id	bigint	YES	MUL		

12. Transaction

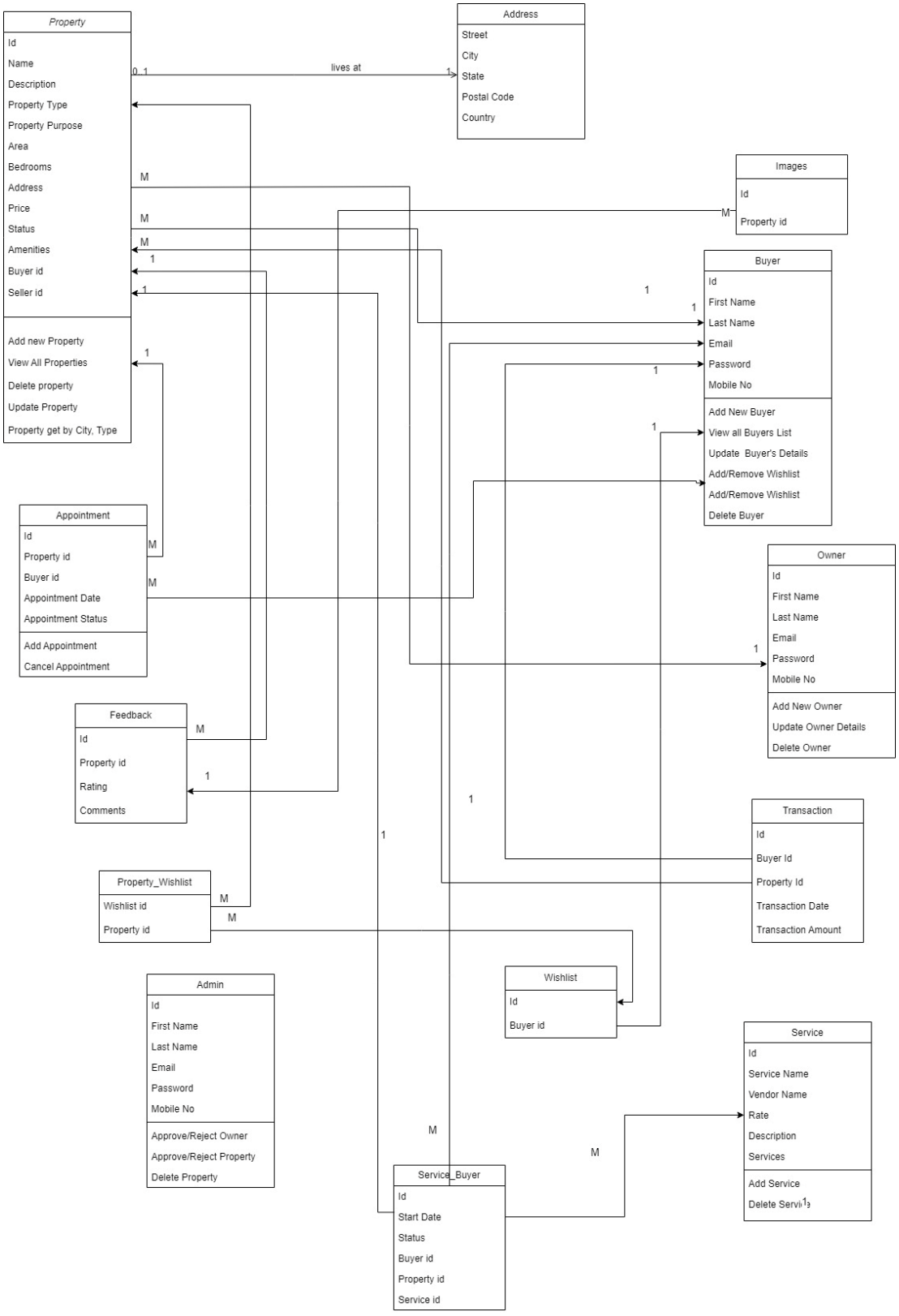
Field	Type	Null	Key	Default	Extra
id	bigint	NO	PRI		auto_increment
transaction_amount	double	NO			
transaction_date	date	YES			
buyer_id	bigint	YES	MUL		
property_id	bigint	YES	MUL		

UML Diagrams

Entity Relationship Diagram:

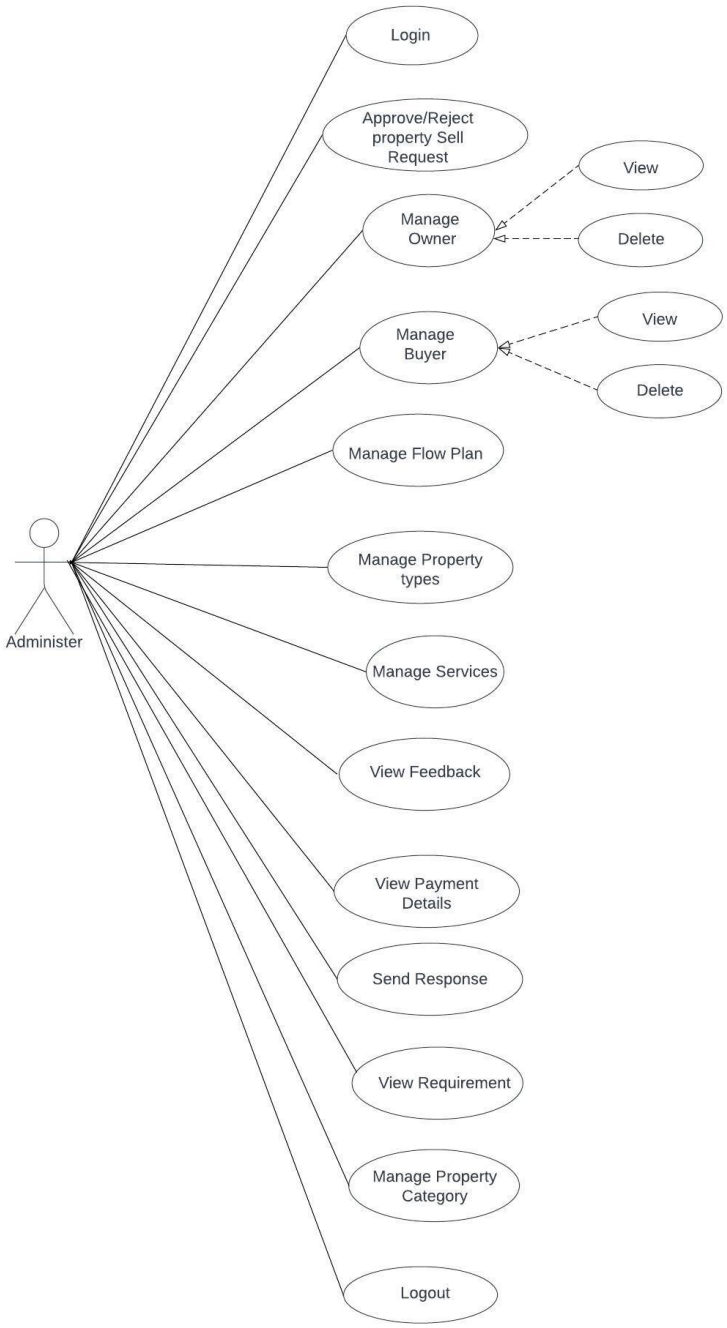


Class Diagram



Use Case Diagram

Admin Use Case

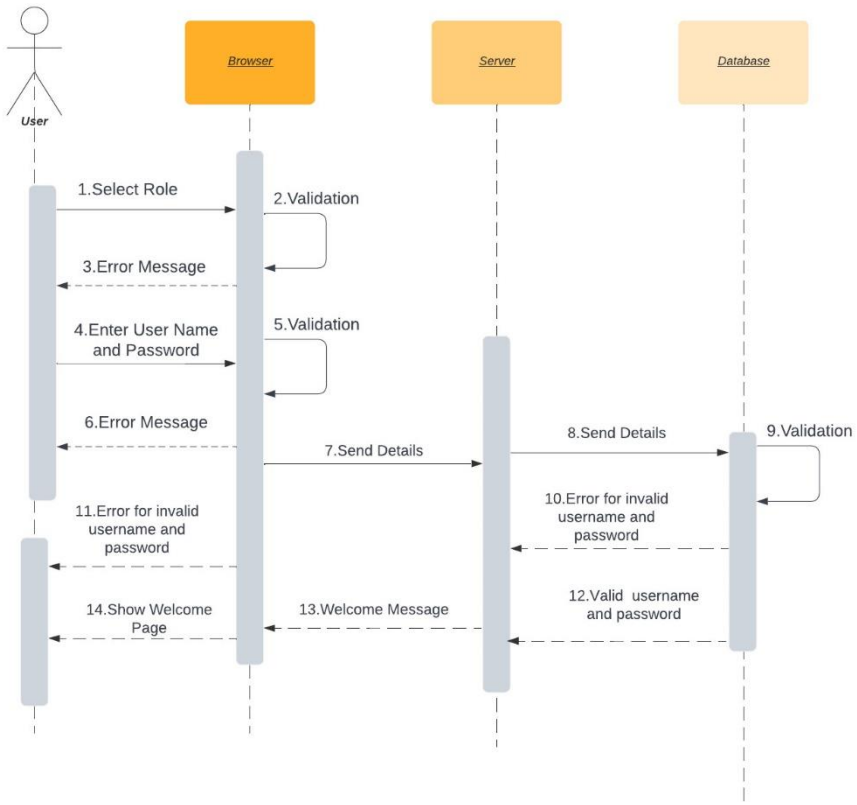


Buyer Use Case Diagram

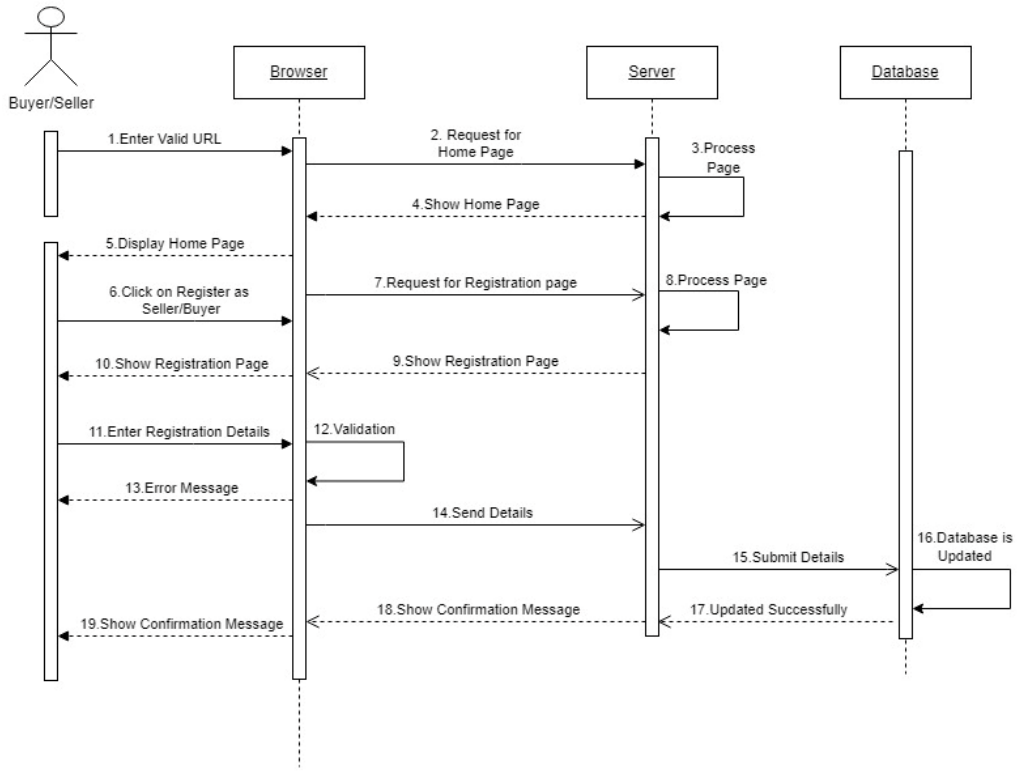
Owner Use Case

Sequence Diagram

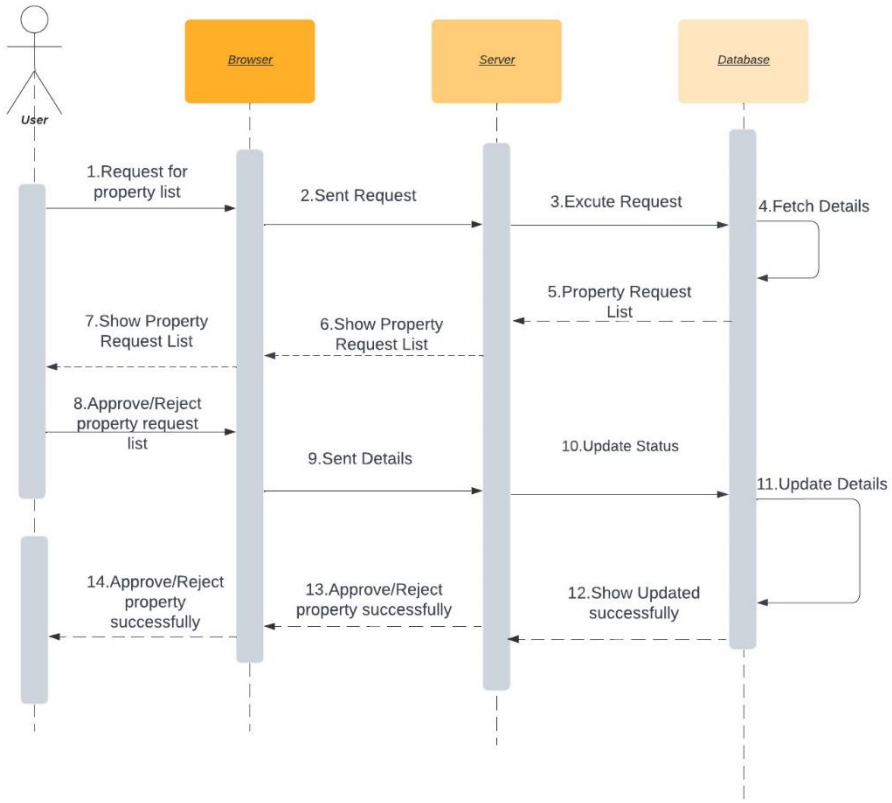
Login Sequence diagram



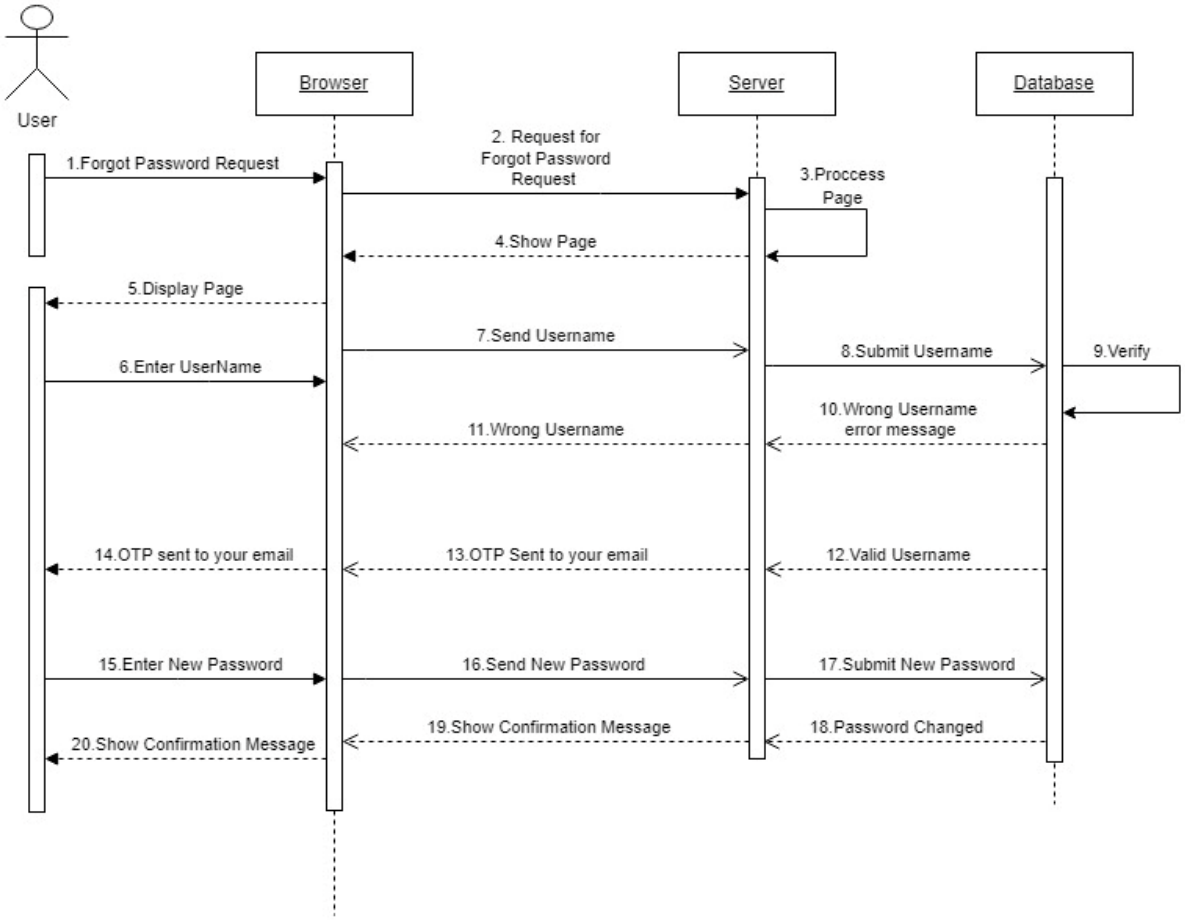
RegisterationBuyerSeller



Approve_Reject Admin Sequence diagram

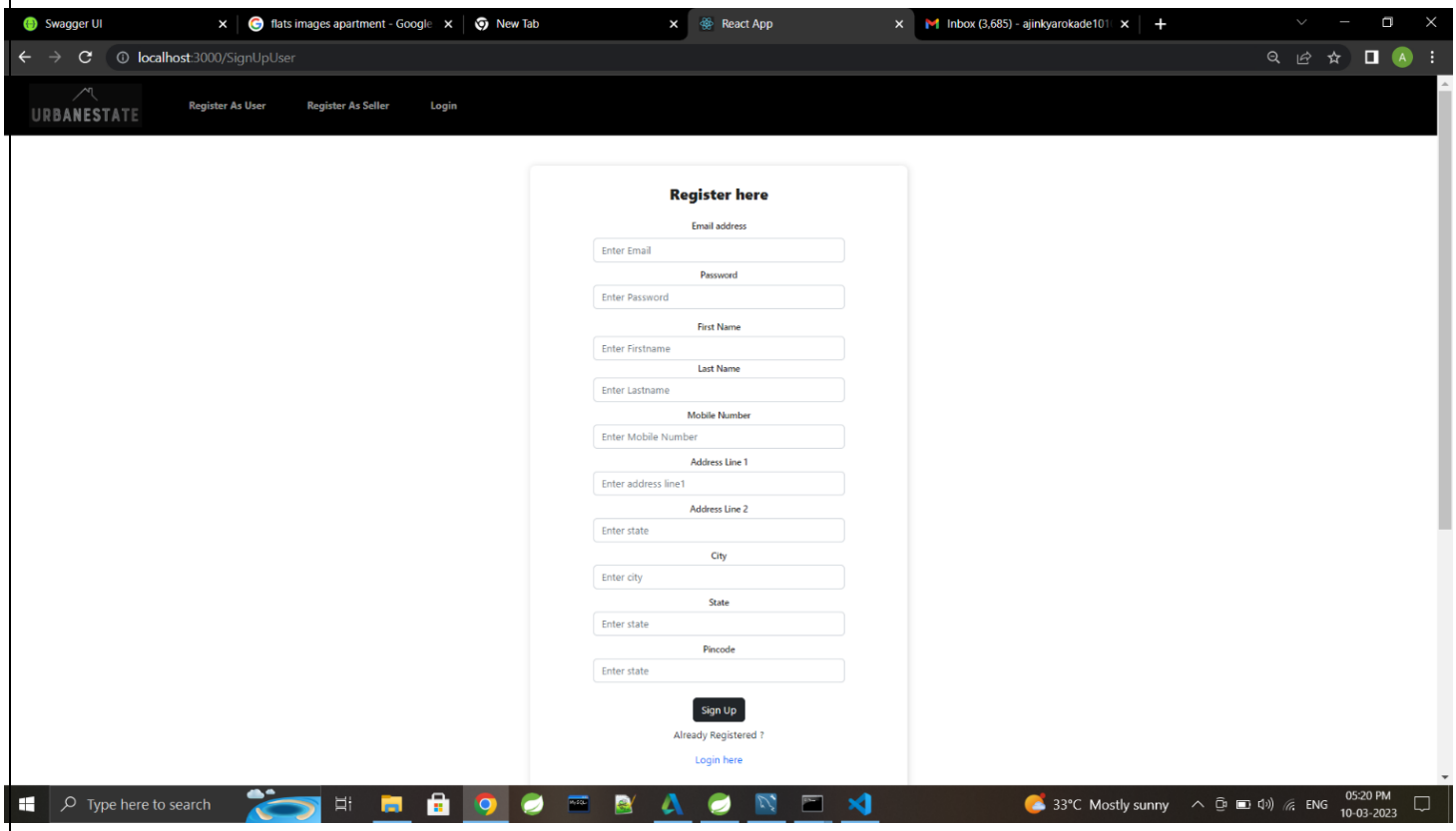


Forgot Password

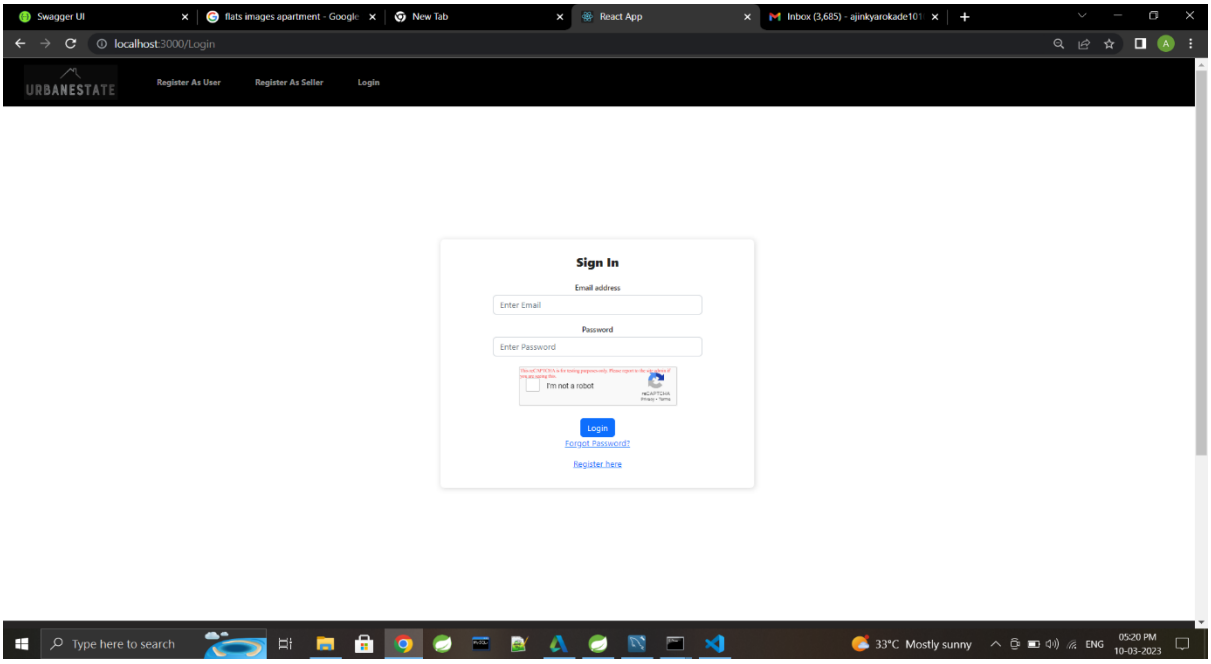


Screen Shots

Signup/Register New User



Sign In



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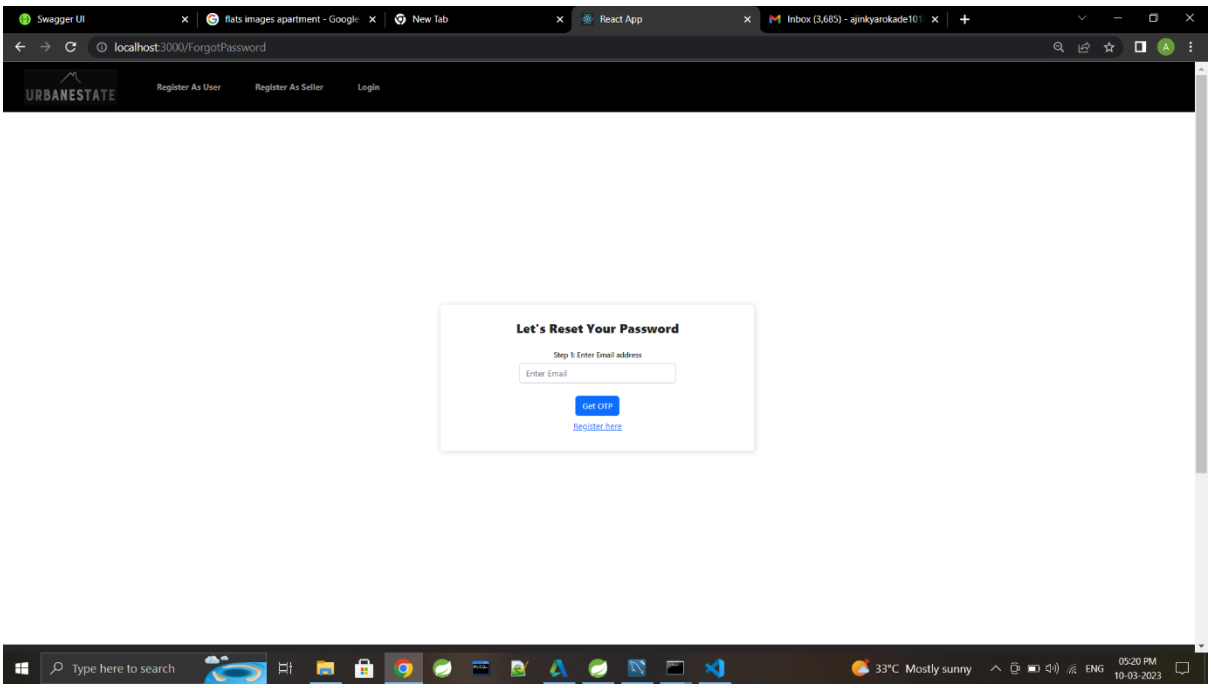
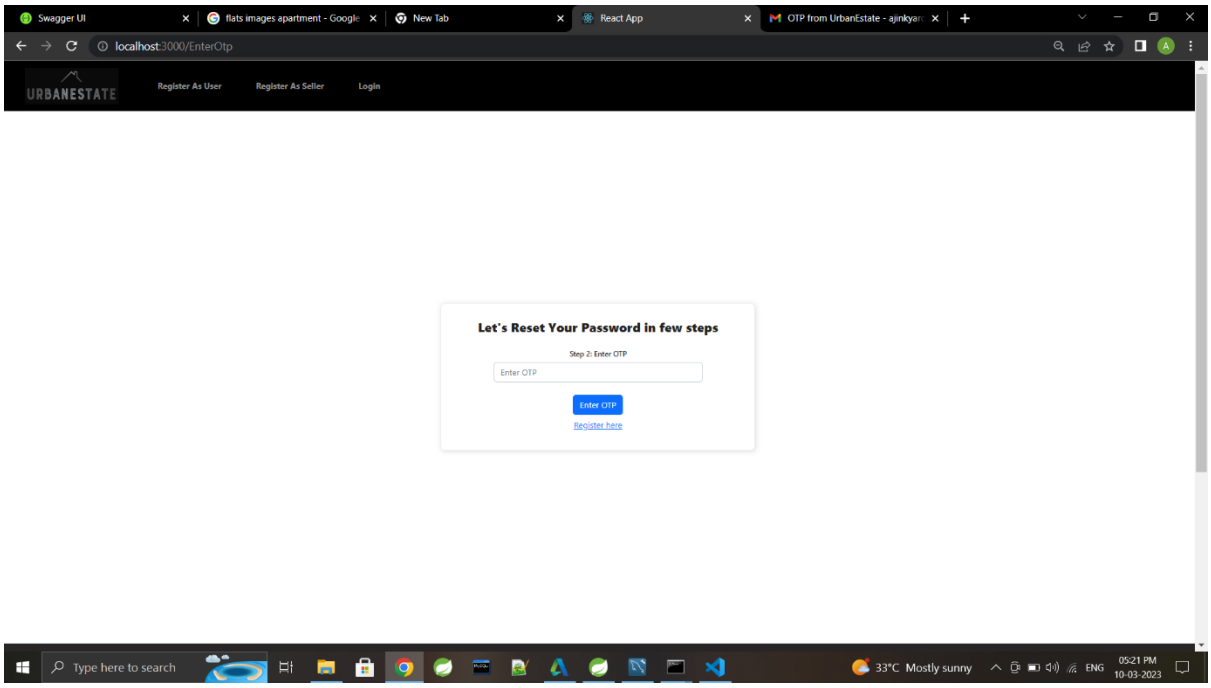
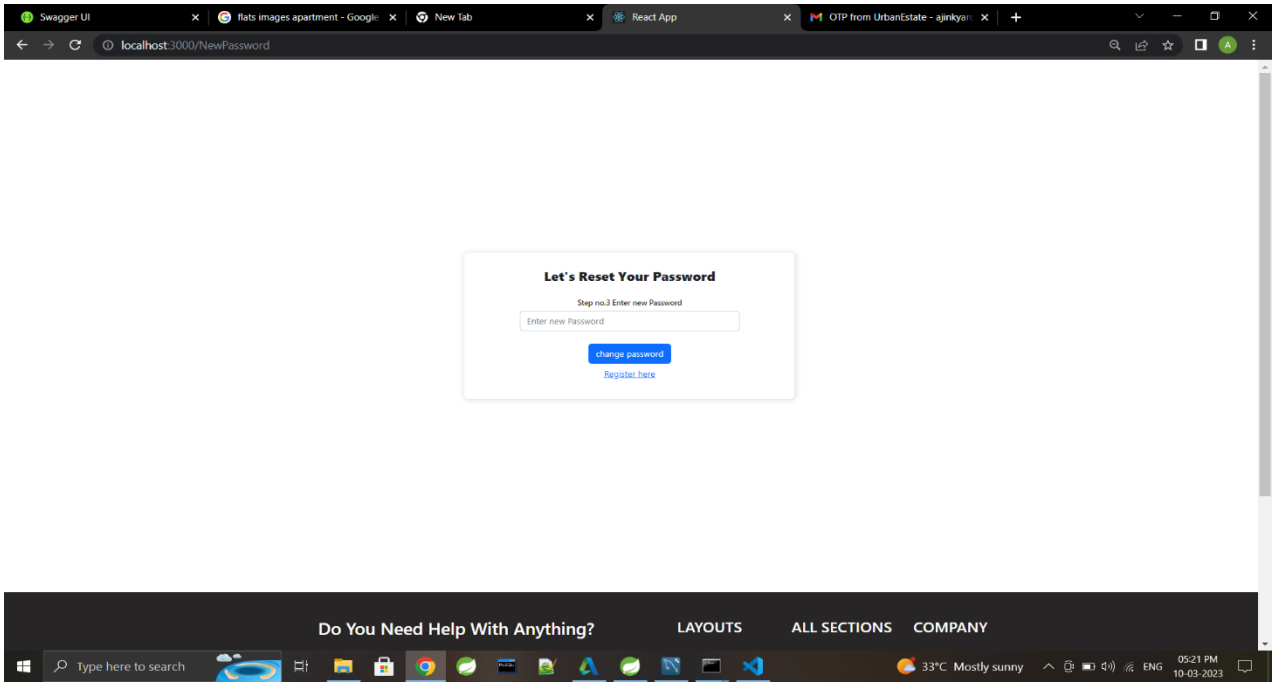
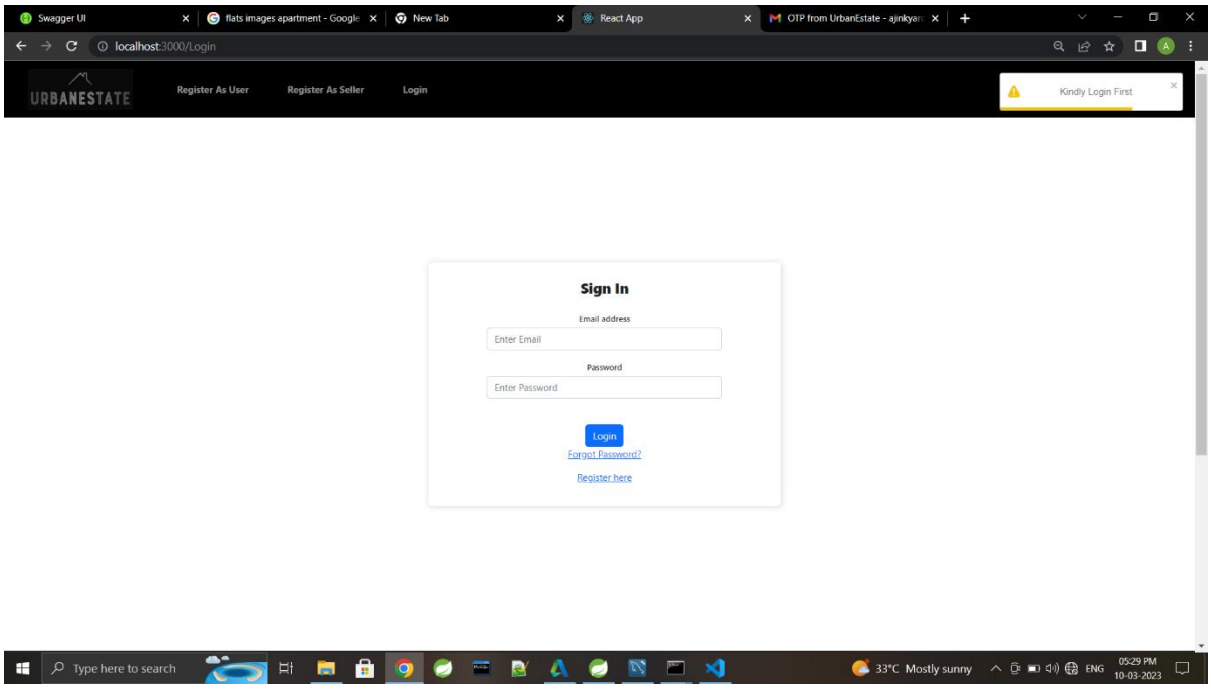


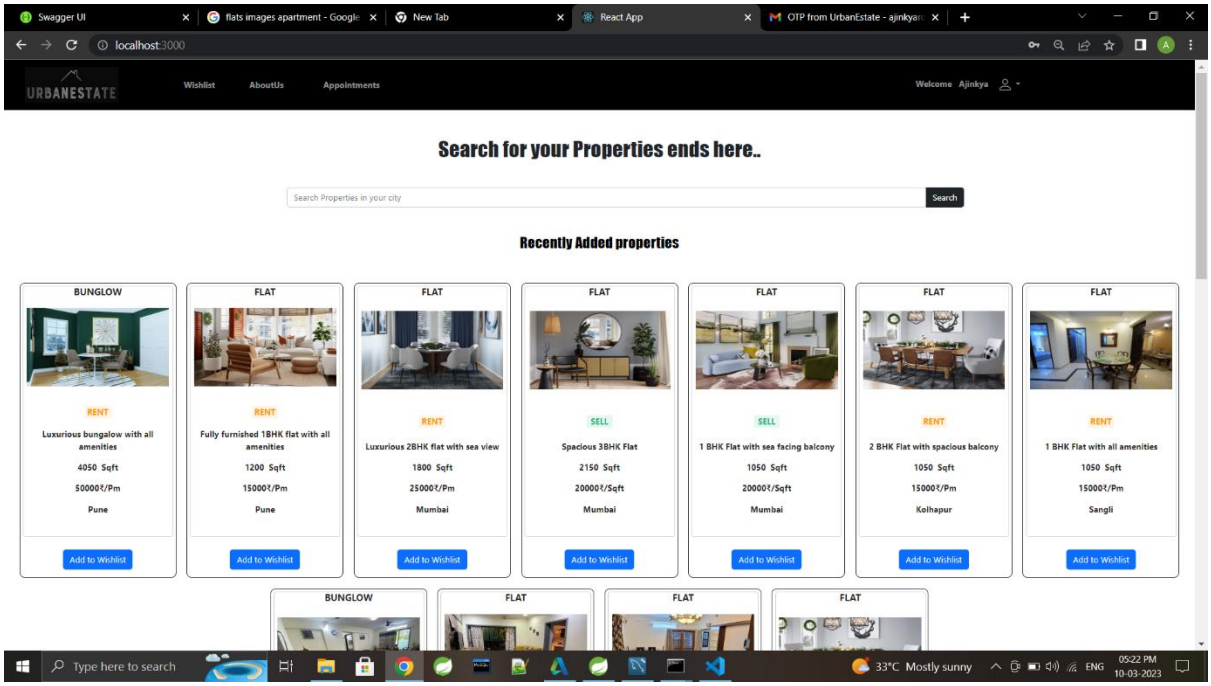




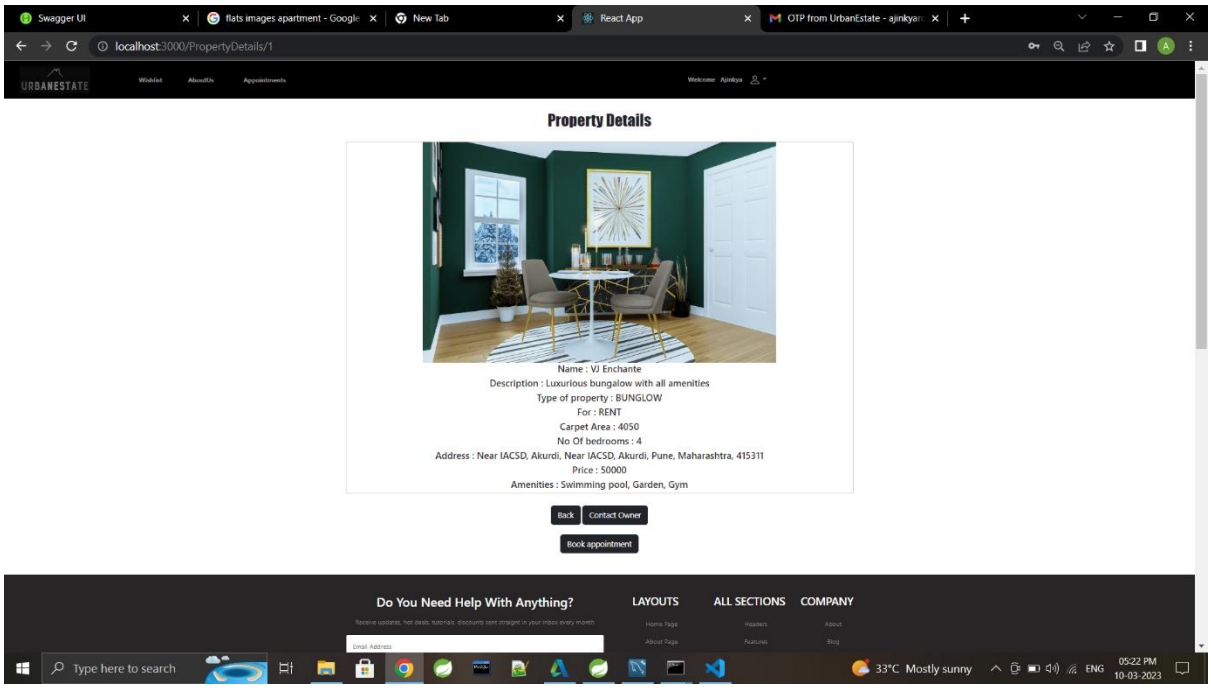
Login Message



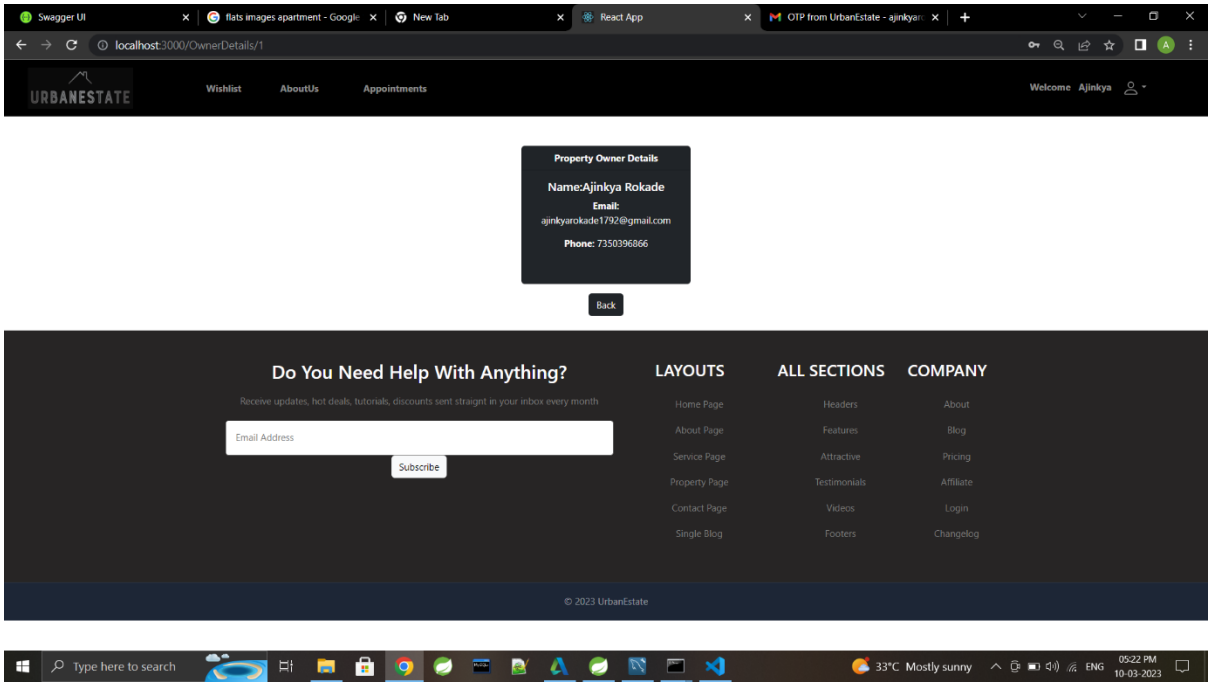
Home Page After Login

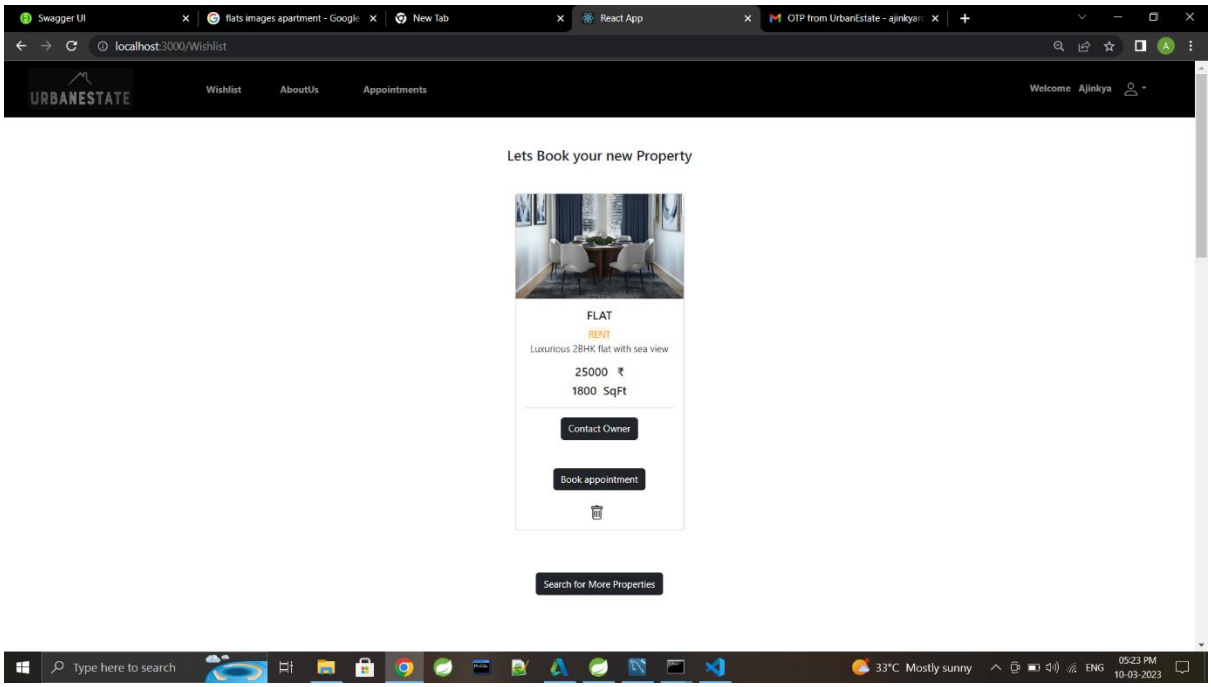


Property Details

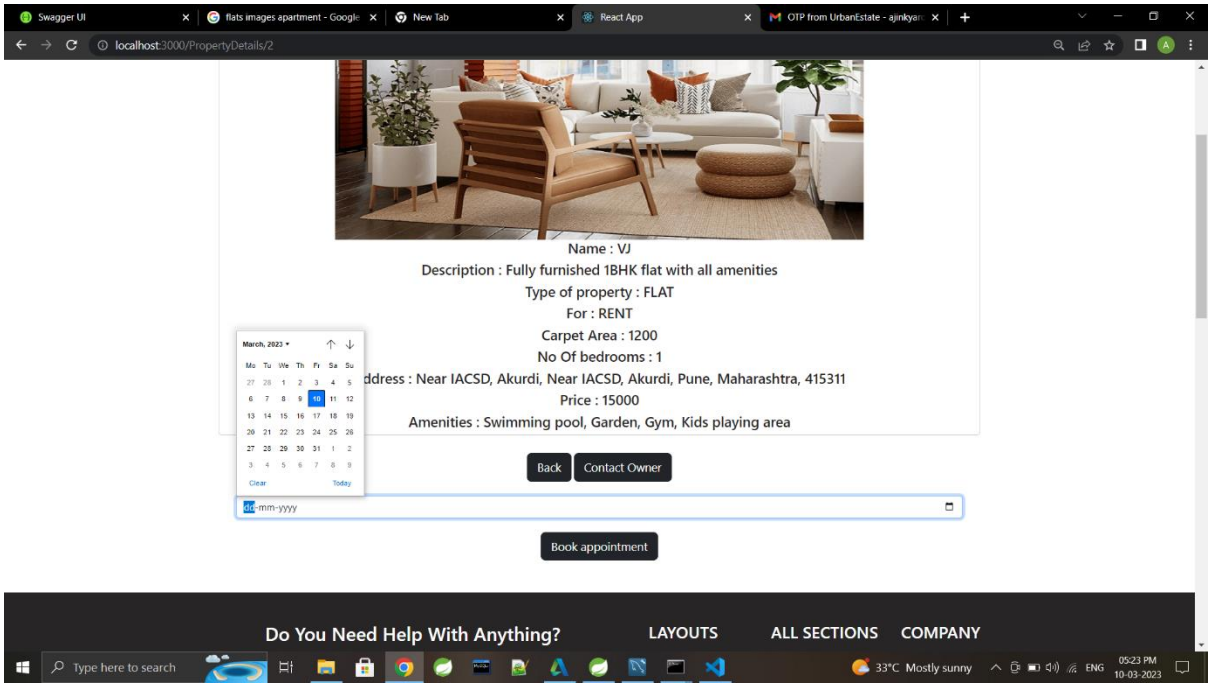


Owner Details

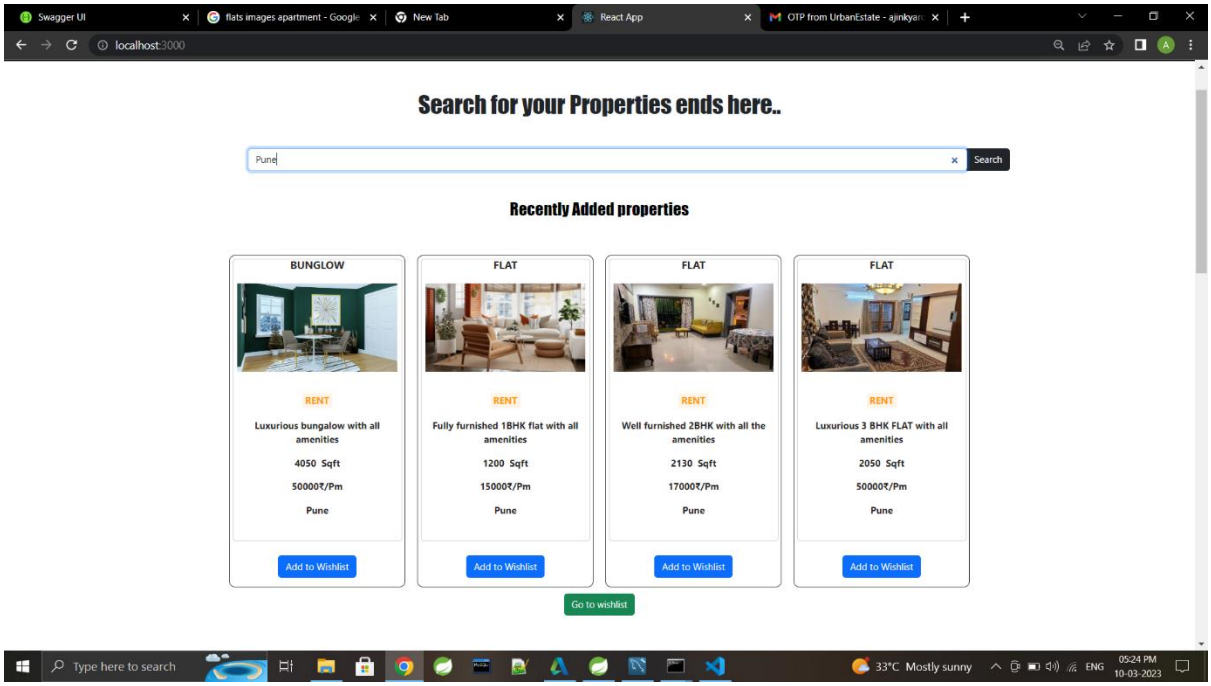


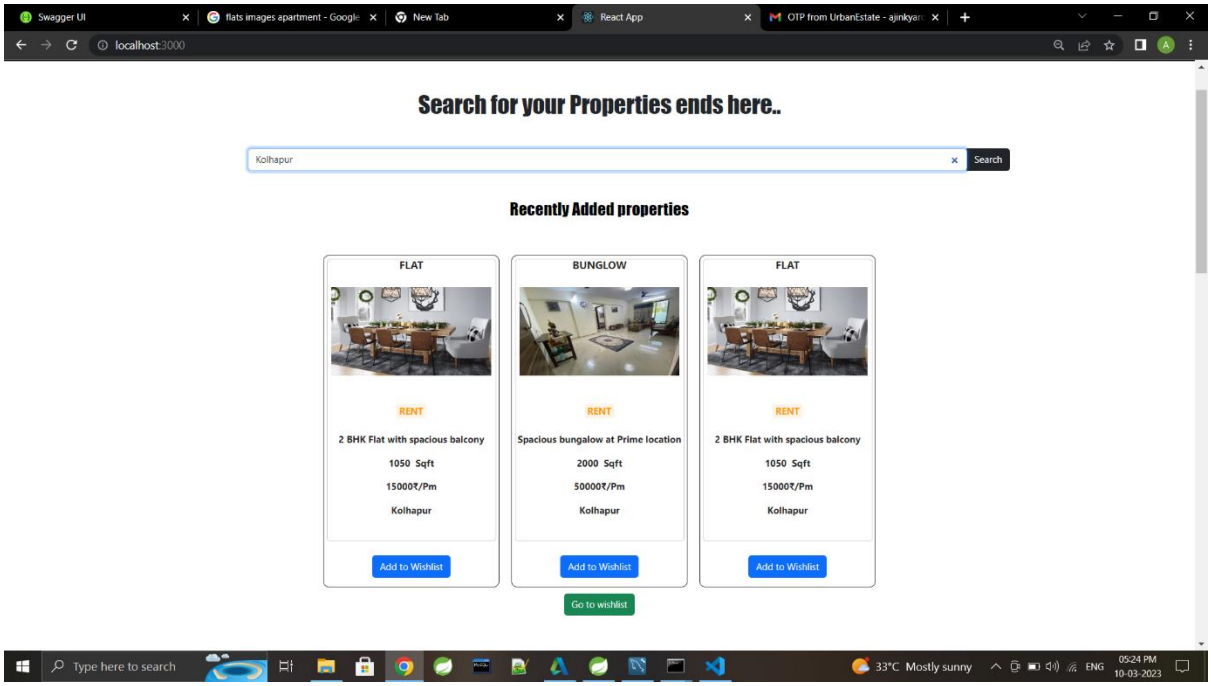


Book Appointment On Particular Day

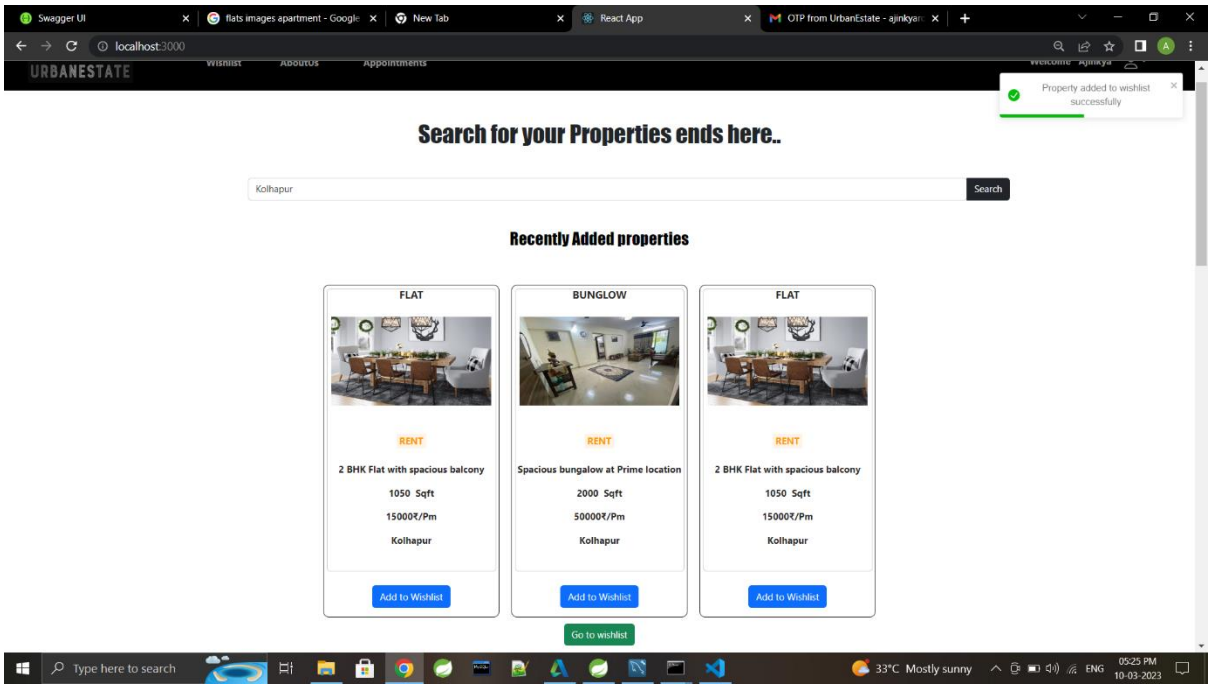


Search Properties According to City

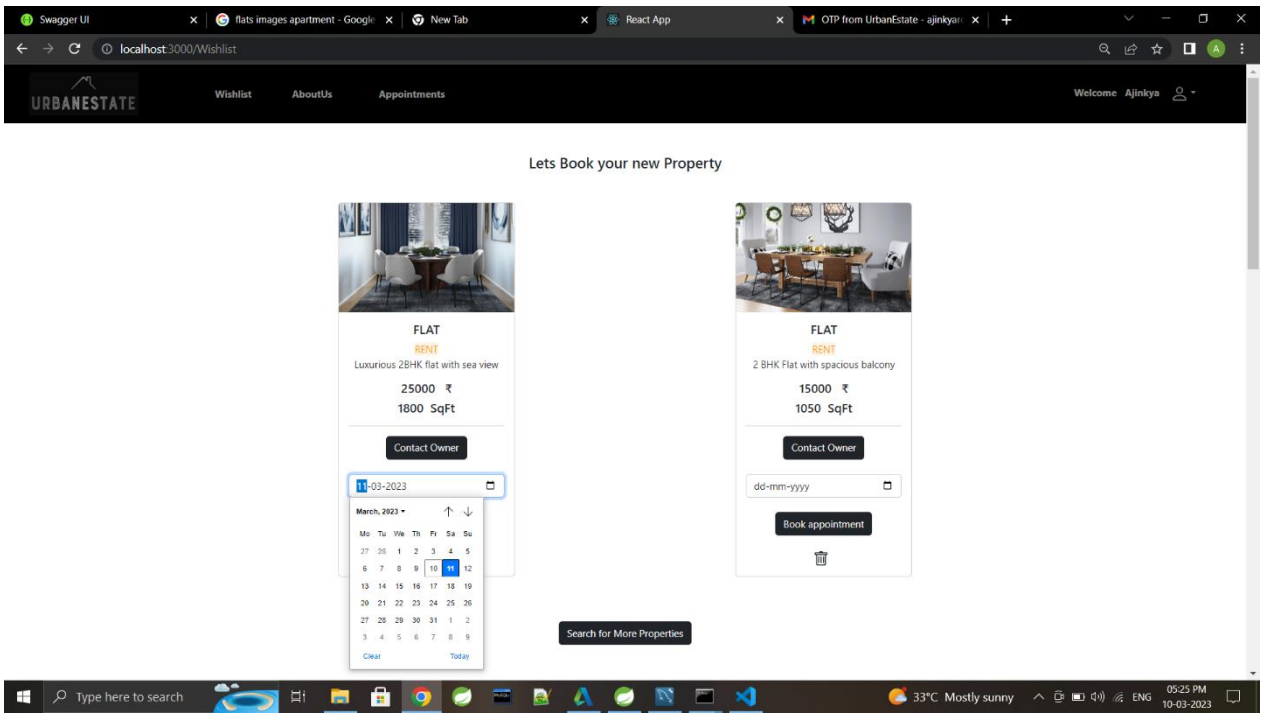




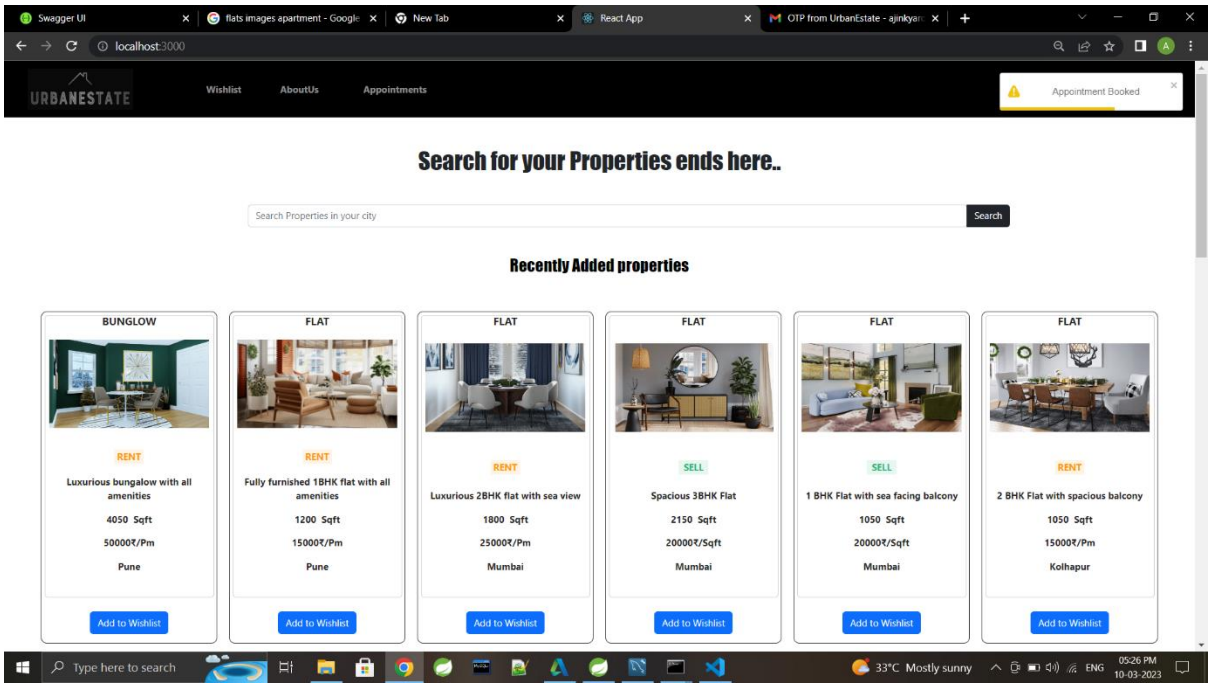
Property Added to Wishlist



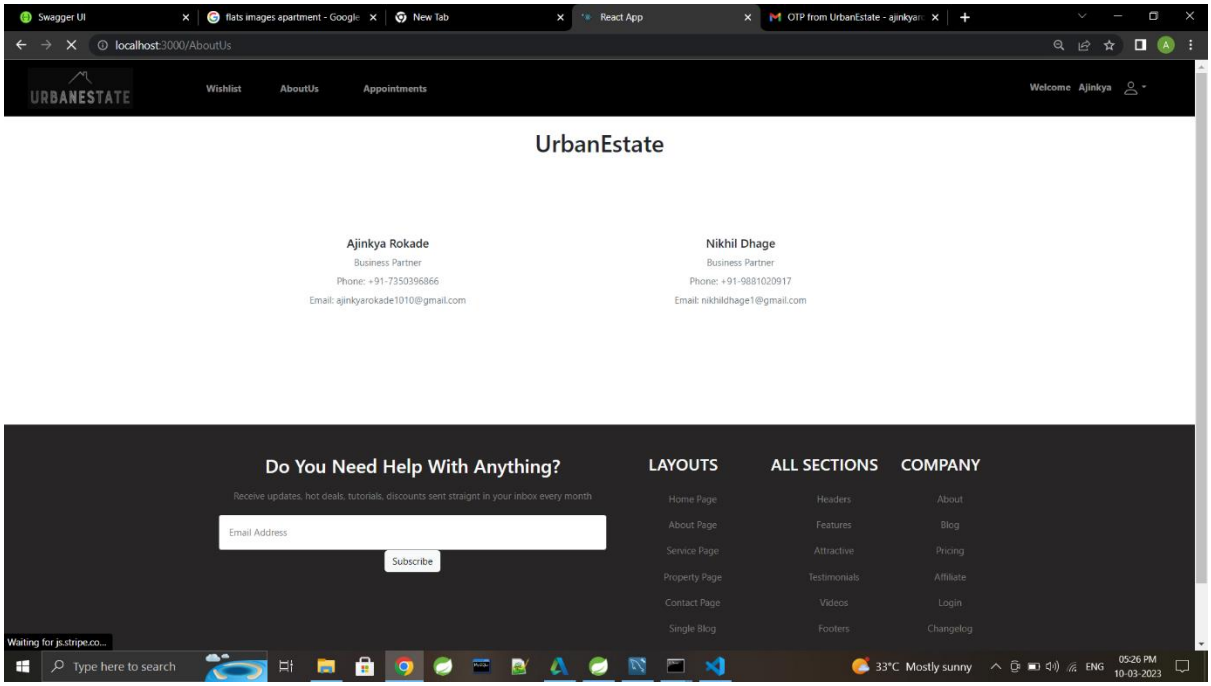
From Wishlist book appointment



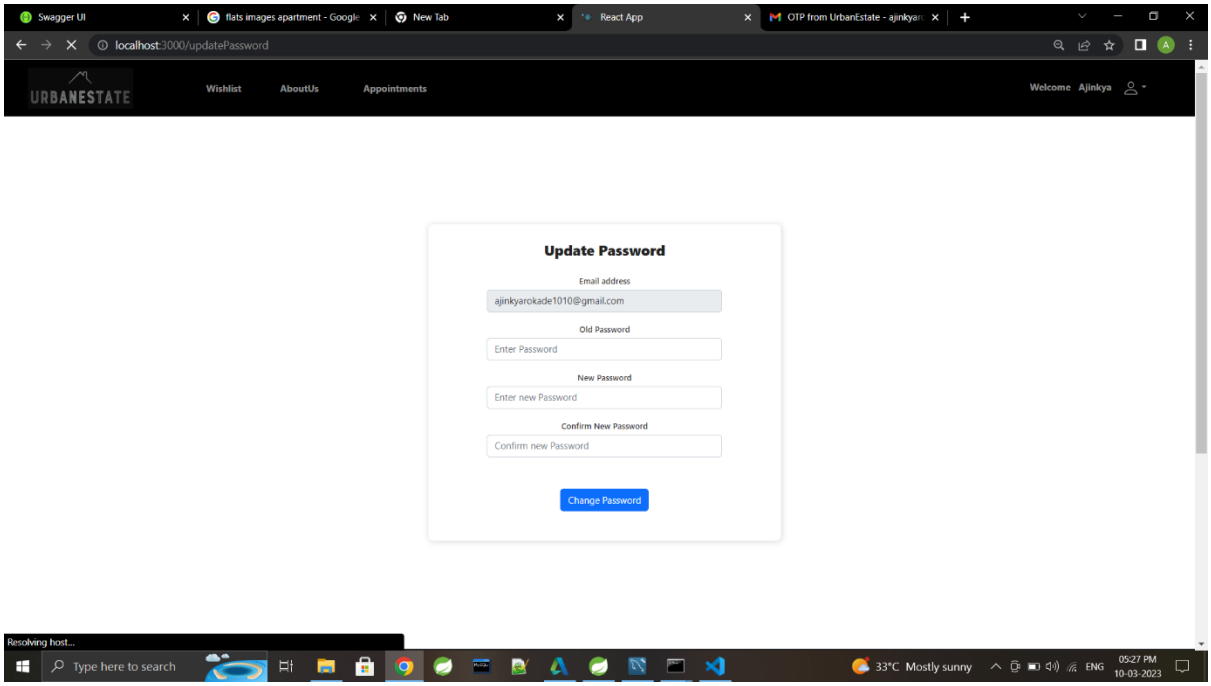
Display as Appointment booked

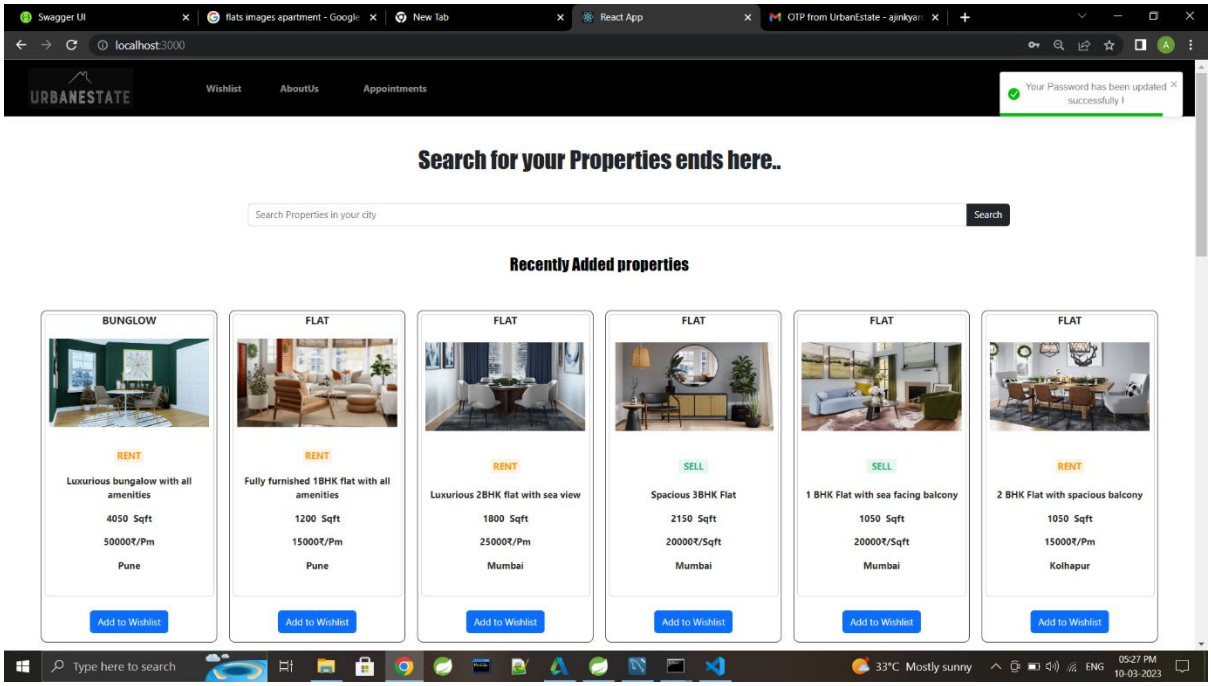


About Urban Estate Page

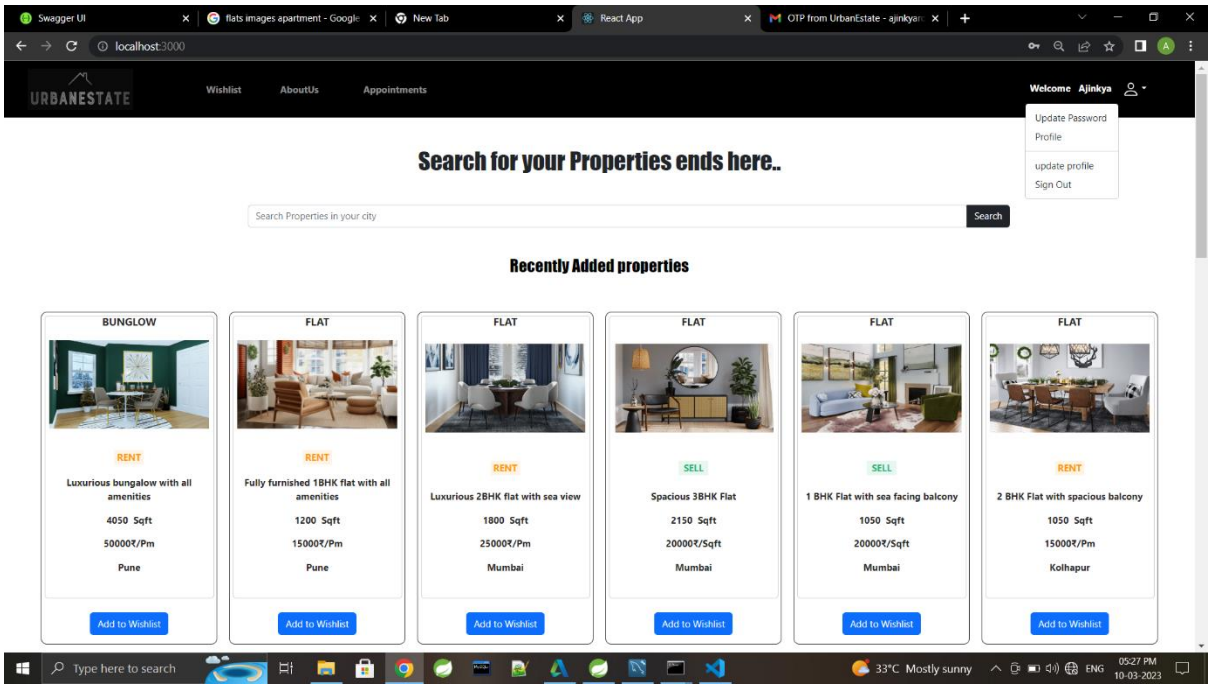


For Update New Password

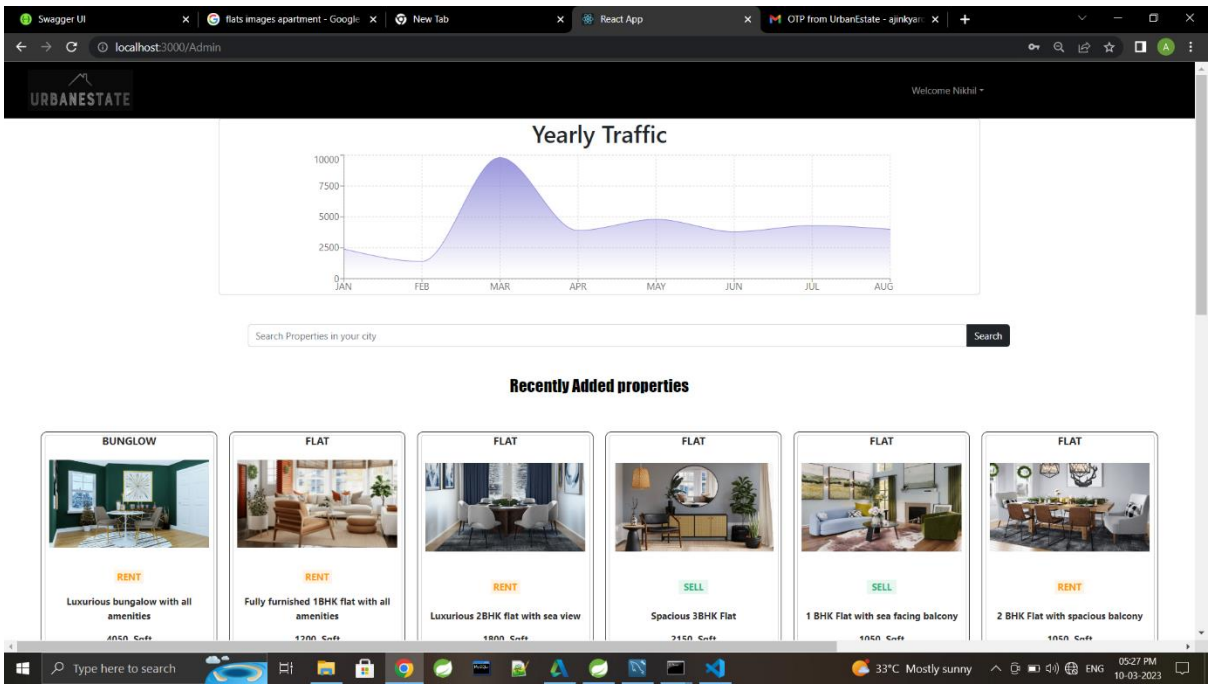


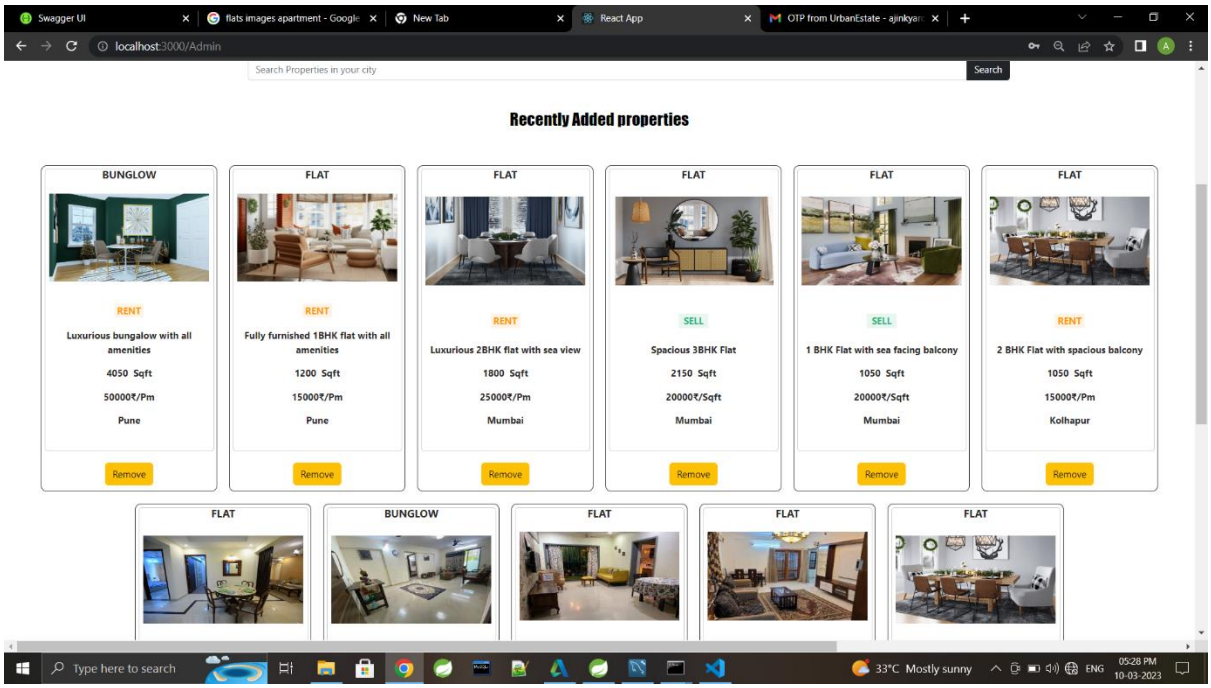

Swagger UI
flats images apartment - Google
New Tab
React App
OTP from UrbanEstate - ajinkya
localhost:3000
URBANESTATE
Wishlist
AboutUs
Appointments
Your Password has been updated successfully !
Search for your Properties ends here..
Search Properties in your city
Search
Recently Added properties
BUNGLOW
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
Luxurious 2BHK flat with sea view
1800 Sqft
25000₹/Pm
Mumbai
Add to Wishlist
FLAT
SELL
Spacious 3BHK Flat
2150 Sqft
20000₹/Sqft
Mumbai
Add to Wishlist
FLAT
SELL
1 BHK Flat with sea facing balcony
1050 Sqft
20000₹/Sqft
Mumbai
Add to Wishlist
FLAT
RENT
2 BHK Flat with spacious balcony
1050 Sqft
15000₹/Pm
Kolhapur
Add to Wishlist
Type here to search
33°C Mostly sunny
ENG
05:27 PM
10-03-2023

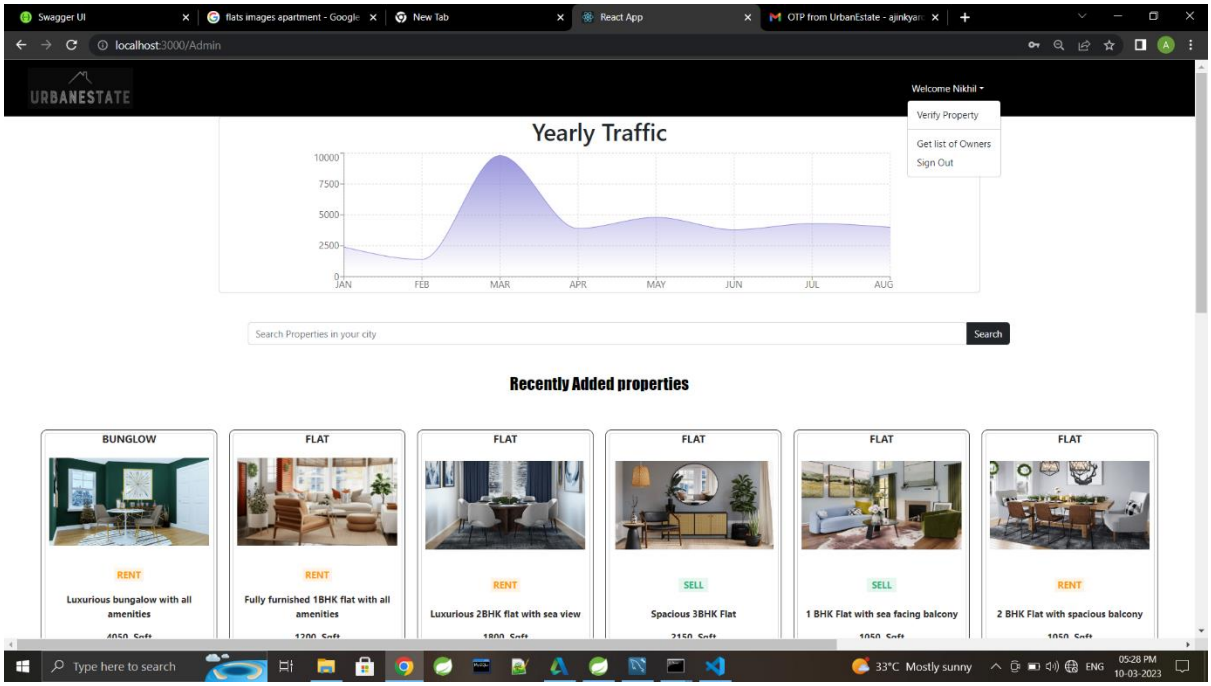
Sign Out


Swagger UI
flats images apartment - Google
New Tab
React App
OTP from UrbanEstate - ajinkya
localhost:3000
URBANESTATE
Wishlist
AboutUs
Appointments
Welcome Ajinkya
Update Password
Profile
update profile
Sign Out
Search for your Properties ends here..
Search Properties in your city
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
Luxurious 2BHK flat with sea view
1800 Sqft
25000₹/Pm
Mumbai
Add to Wishlist
FLAT
SELL
Spacious 3BHK Flat
2150 Sqft
20000₹/Sqft
Mumbai
Add to Wishlist
FLAT
SELL
1 BHK Flat with sea facing balcony
1050 Sqft
20000₹/Sqft
Mumbai
Add to Wishlist
FLAT
RENT
2 BHK Flat with spacious balcony
1050 Sqft
15000₹/Pm
Kolhapur
Add to Wishlist
Type here to search
33°C Mostly sunny
ENG
05:27 PM
10-03-2023

Signing As Admin






Swagger UI
flats images apartment - Google
New Tab
React App
OTP from UrbanEstate - ajinkyan
localhost:3000/Admin
URBANESTATE
Welcome Nikhil
Verify Property
Get list of Owners
Sign Out
Yearly Traffic
10000
7500
5000
2500
0
JAN
FEB
MAR
APR
MAY
JUN
JUL
AUG
Search Properties in your city
Search
Recently Added properties
BUNGLOW
RENT
Luxurious bungalow with all amenities
FLAT
RENT
Fully furnished 1BHK flat with all amenities
FLAT
RENT
Luxurious 2BHK flat with sea view
FLAT
SELL
Spacious 3BHK Flat
FLAT
SELL
1 BHK Flat with sea facing balcony
FLAT
RENT
2 BHK Flat with spacious balcony
Type here to search
33°C Mostly sunny
ENG
05:28 PM
10-03-2023

5. References

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- ✓ https://stackoverflow.com