Real Estate Marketplace

Priyank Viradiya
92100133040

Date : 04-05-2024

Course Name : AWT(01CT1625)

Department Name : ICT

Guided By : Prof. Arzoo sir.

Information and Communication Technology

2023-24

CERTIFICATE

This is to certify that the project entitled Real Estate Marketplacehas been carried out by Priyank Viradiya(92100133040) under my guidance in partial fulfilment of the degree of Bachelor Engineering in Information and Communication Technology (6th Semester) of Marwadi University,Rajkot during the academic year 2023-24.

Date :04-05-2024

Internal Guide

Mr.Shamsagazarzoo Alam
Subject Co-ordinator
C.T.O. Ally Soft Solutions

Head of the Department

Prof . C. D. Parmar
Head of Department ICT
Engineering

Project Report

➢ Abstract :

The Real Estate Marketplace project aims to develop a comprehensive online platform utilizing the MERN (MongoDB, Express.js, React.js, Node.js) technology stack. This platform serves as a centralized hub for real estate, connecting buyers, sellers, and agents in a seamless and efficient manner.

➢ Index :

1. Introduction :

In the digital era, the real estate industry has witnessed a significant transformation with the advent of online marketplaces. These platforms have revolutionized the way properties are bought, sold, and rented, offering convenience, accessibility, and a wide range of options to users worldwide. The Real Estate Marketplace project aims to contribute to this evolving landscape by developing a cutting-edge online platform using the MERN (MongoDB, Express.js, React.js, Node.js) technology stack. This platform seeks to streamline the process of real estate transactions, providing a centralized hub for buyers, sellers, and agents to connect, negotiate, and finalize deals.

2. Project Description :

The Real Estate Marketplace project is a comprehensive online platform designed to facilitate real estate transactions through an intuitive and user-friendly interface. Leveraging the power of the MERN stack, the platform offers a range of features and functionalities to cater to the needs of various stakeholders in the real estate industry. From property listings and advanced search capabilities to messaging systems and secure

payment processing, the platform aims to provide a seamless and efficient experience for users looking to buy, sell, or rent properties.

➢ Functionalities :

- **User Authentication and Authorization:** Secure registration and login functionalities with role-based access control to ensure data privacy and security.
- **Property Listings:** Robust database management system for listing properties with detailed information such as location, price, amenities, and images.
- **Advanced Search and Filter:** Intuitive search and filtering options to help users find properties based on specific criteria, including location, price range, property type, and more.
- **Messaging System:** Built-in messaging feature to facilitate communication between buyers, sellers, and agents, enabling seamless negotiation and transaction management.
- **User Profiles:** Personalized user profiles where individuals can manage their listings, saved searches, preferences, and communication settings.
- **Responsive Design:** Mobile-friendly interface to ensure accessibility across devices, allowing users to browse listings and manage transactions on smartphones and tablets.

➢ Technologies and Tools Used :

- **Frontend Development:** React
- **Backend Development:** Node.js, Express.js
- **Database Interactions:** MongoDB with Mongoose
- **User Interface Styling:** HTML, CSS
- **Interactivity:** JavaScript
- **Authentication:** JWT
- **Efficient Development:** Vite

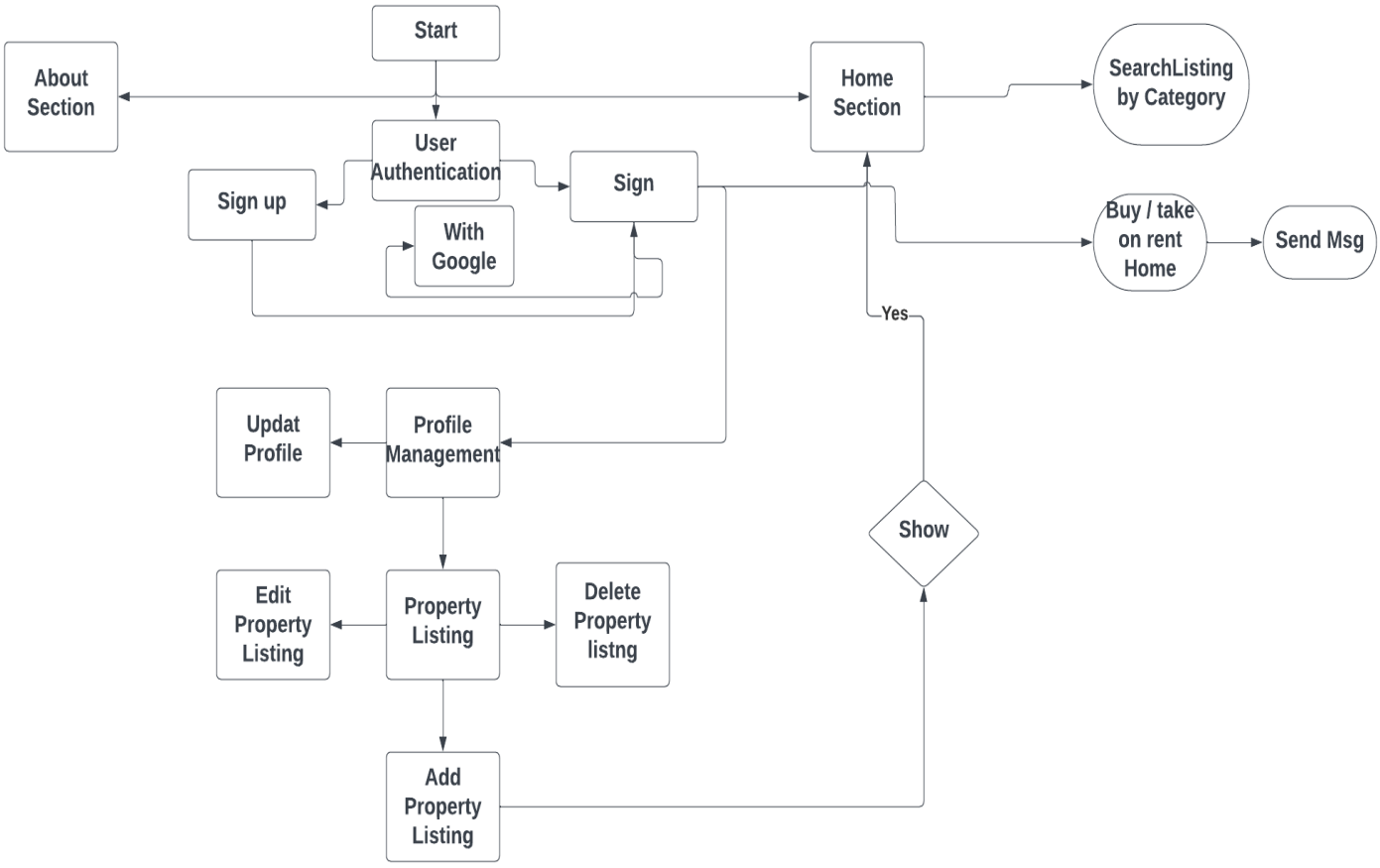
3. System Architecture :

The Real Estate Marketplace system architecture follows a client-server model, with the frontend built using React.js and the backend utilizing Node.js and Express.js. MongoDB is employed as the database to store property listings, user data, and other relevant information. The frontend interacts with the backend through RESTful APIs, enabling seamless communication and data exchange.

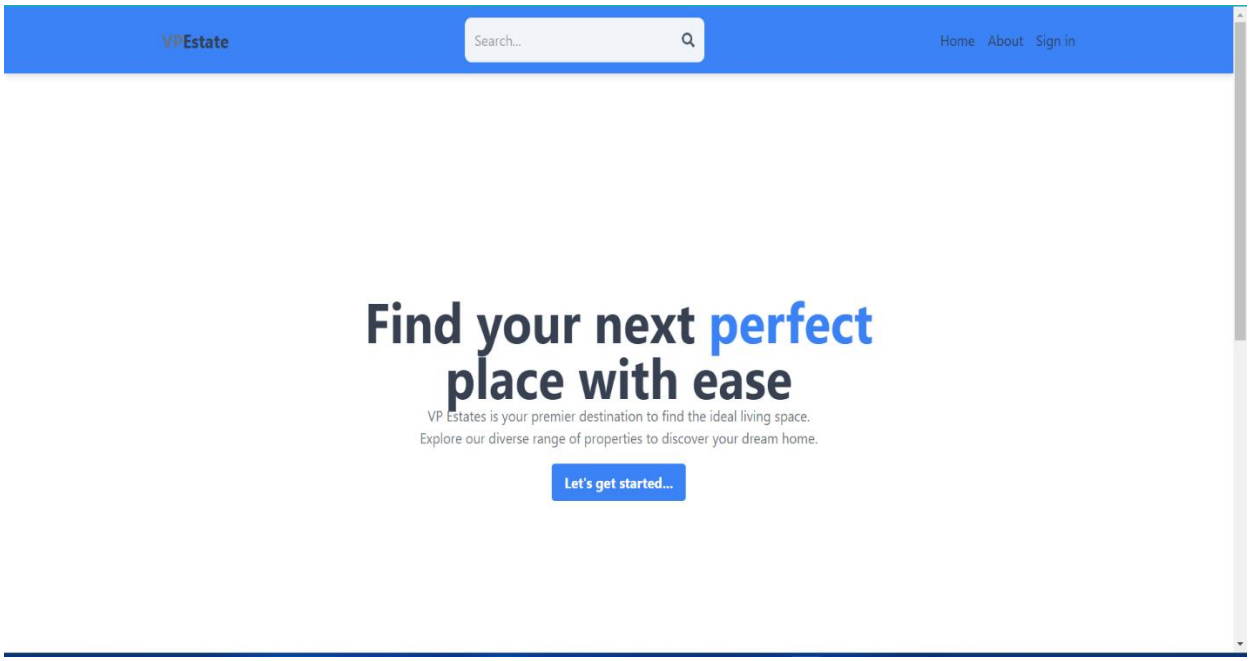
4. Implementation Details :

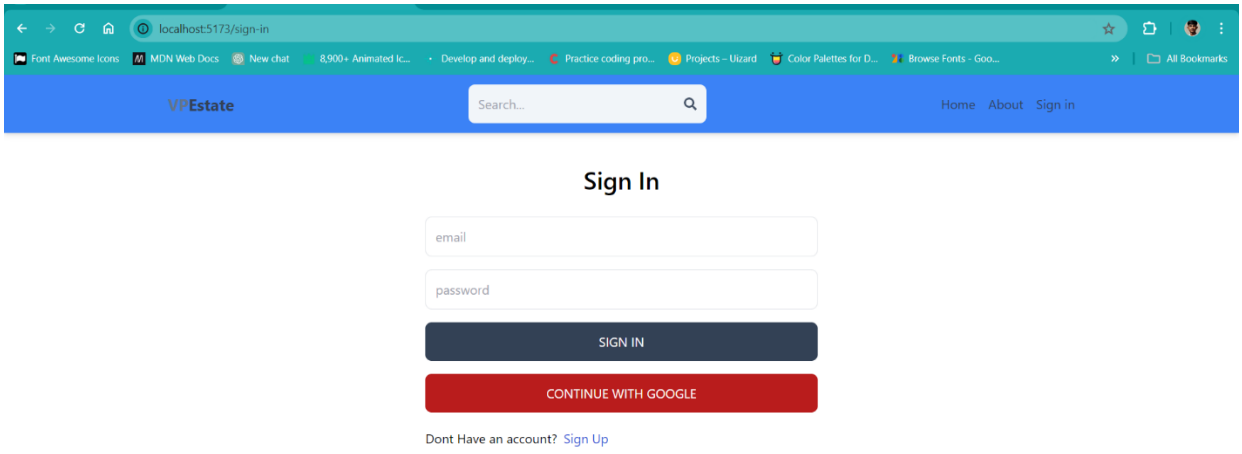
The implementation of the Real Estate Marketplace project involves several stages, including database design, frontend and backend development, API integration, and testing. The frontend is developed using React.js, with components designed for user interface elements such as property listings, search filters, and messaging.

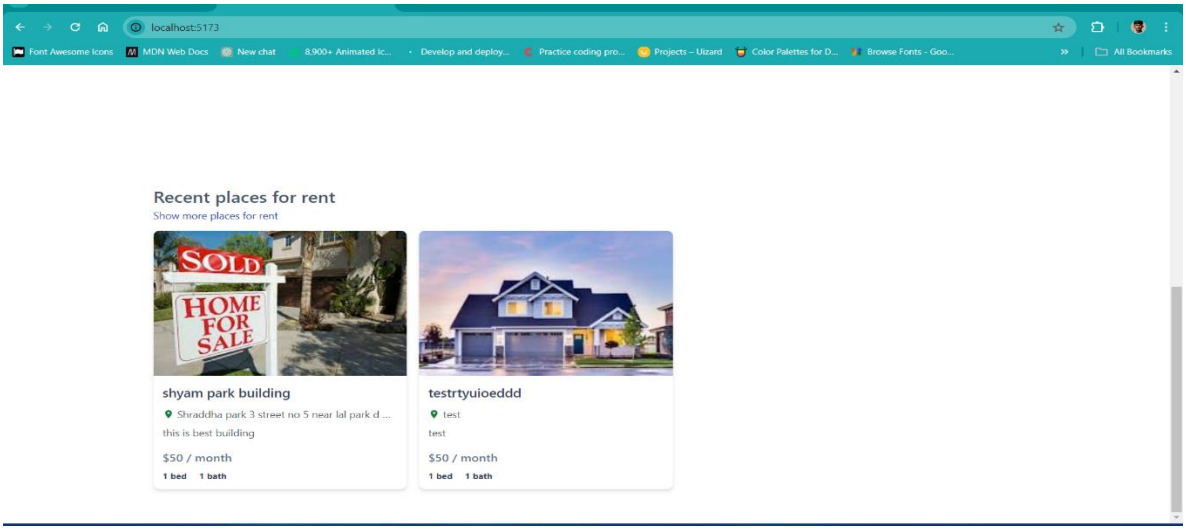
5. Flowchart :



➢ Screenshots :



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Recent places for rent
Show more places for rent
SOLD
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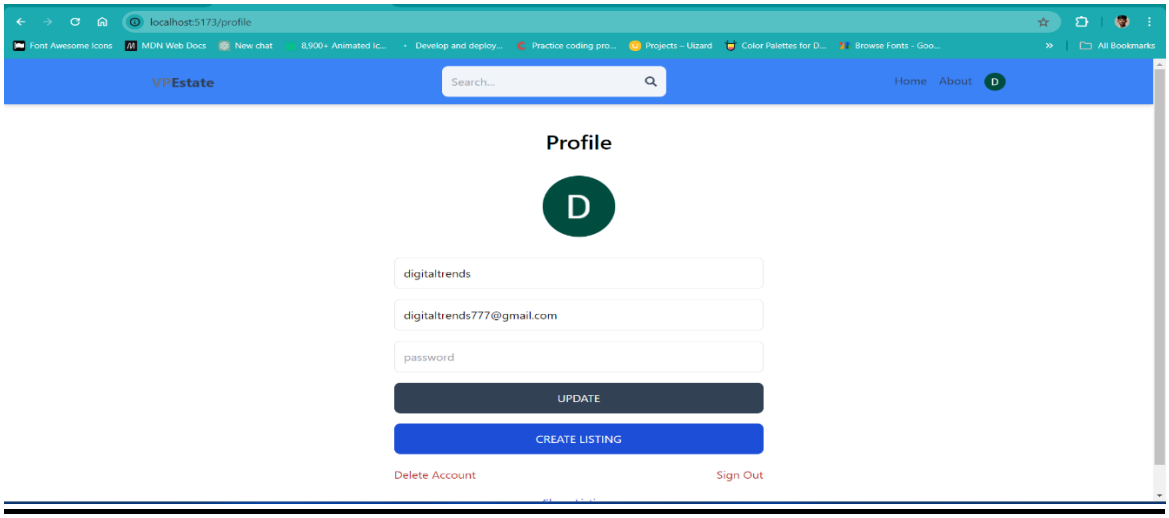
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Home
About
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digitaltrends
digitaltrends777@gmail.com
password
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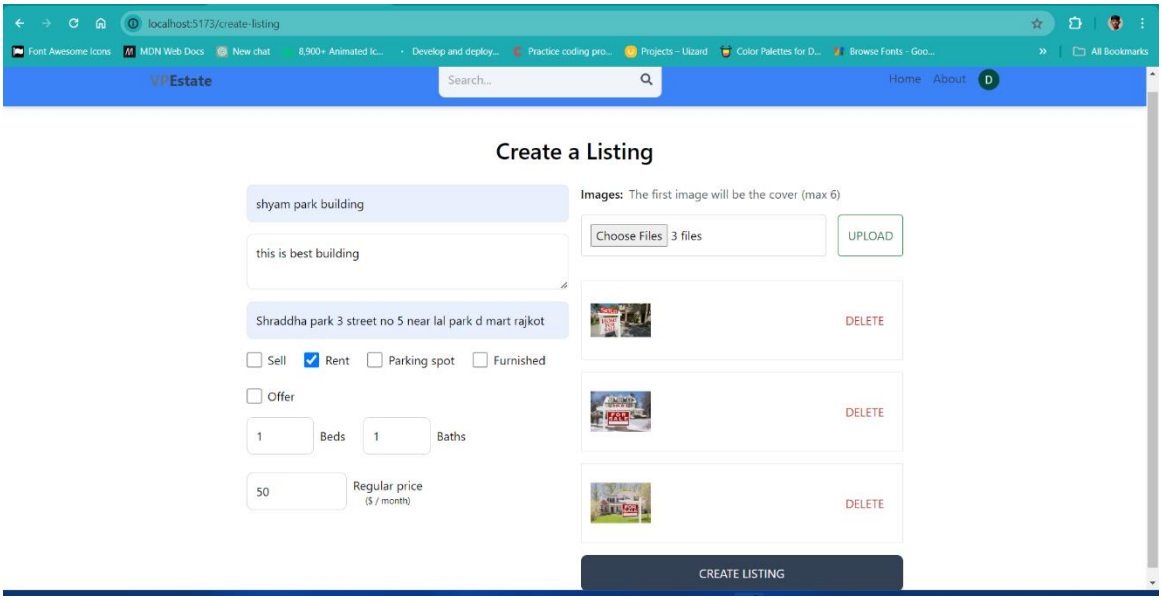
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this is best building
Shraddha park 3 street no 5 near lal park d mart rajkot
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Parking spot
Furnished
Offer
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Beds
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Baths
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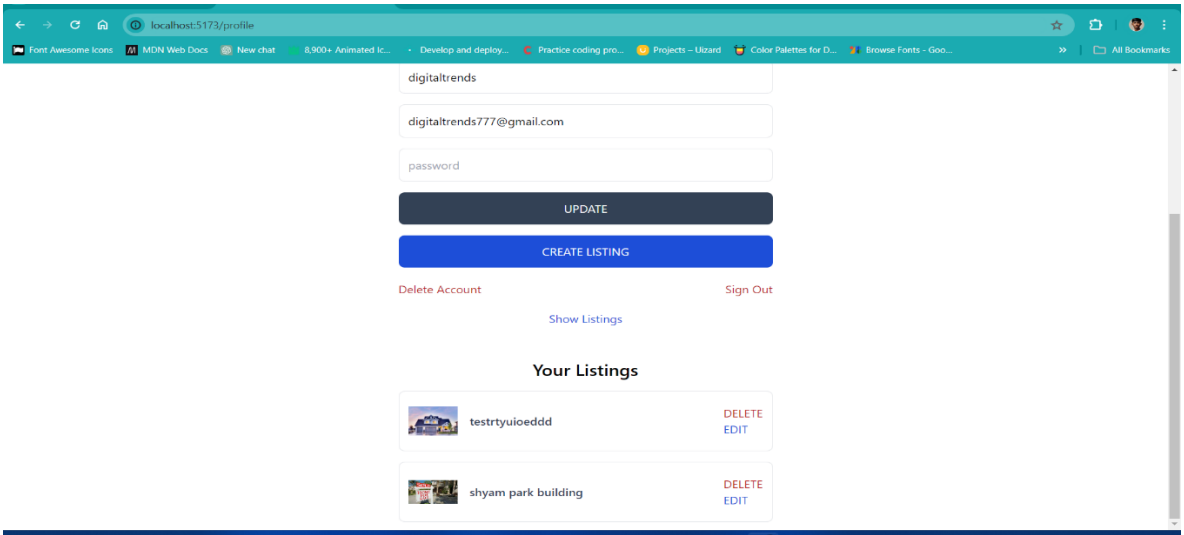
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CREATE LISTING
Delete Account
Sign Out
Show Listings
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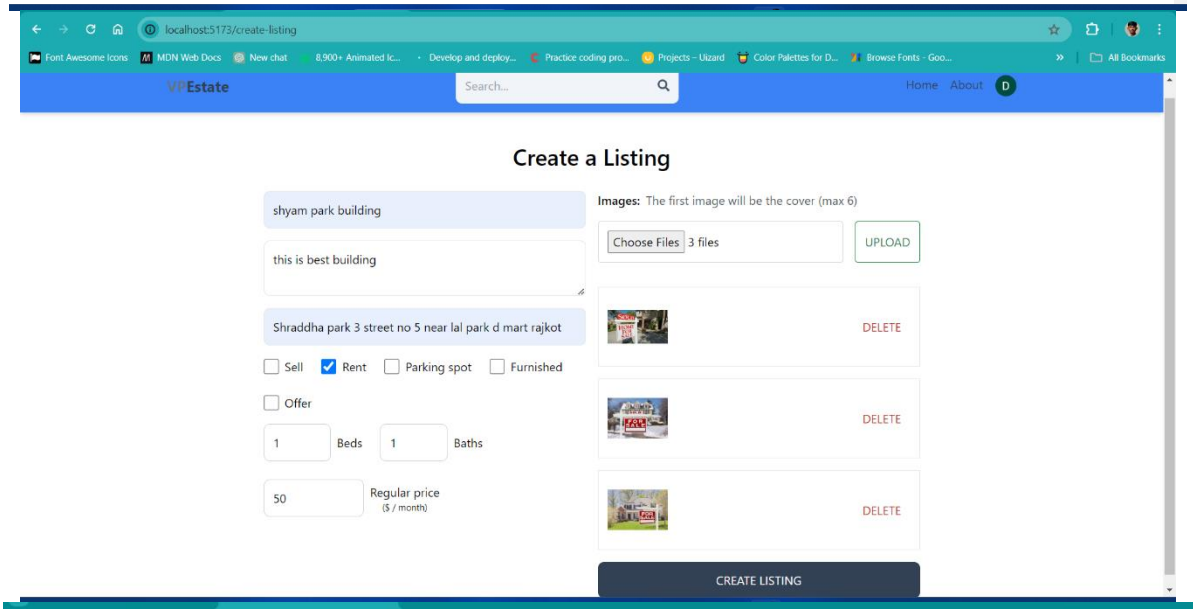
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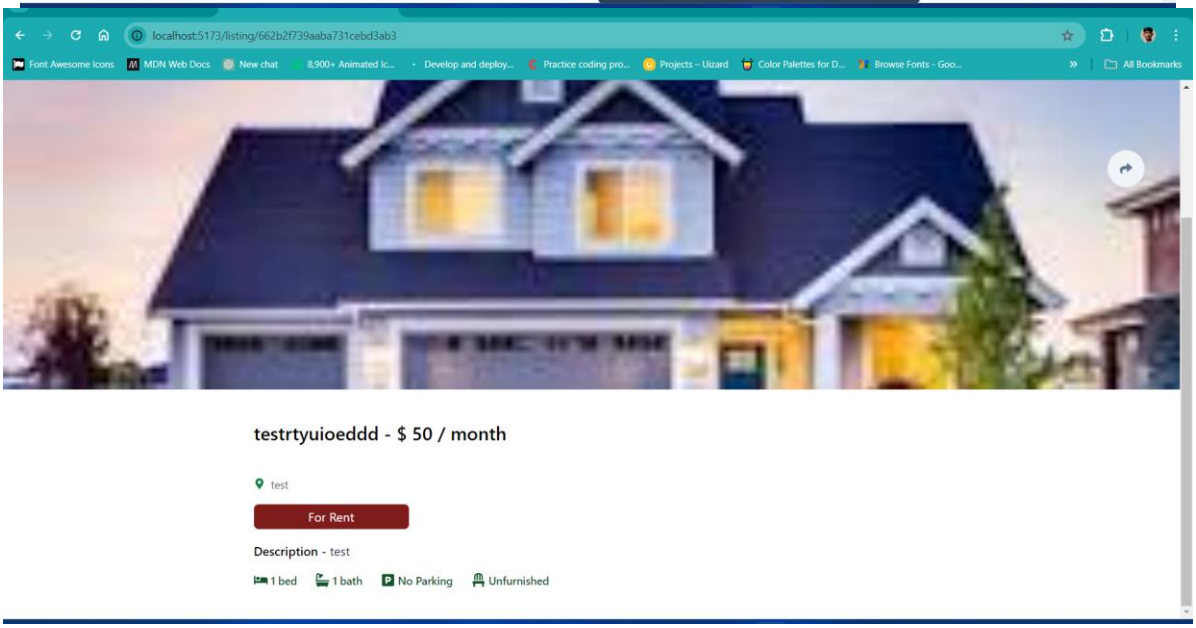
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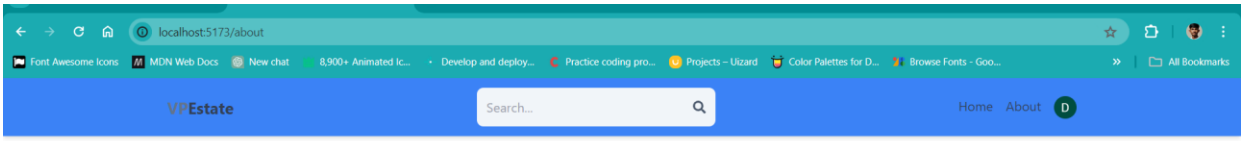
testrtyuioeddd - $ 50 / month
test
For Rent
Description - test
1 bed
1 bath
No Parking
Unfurnished

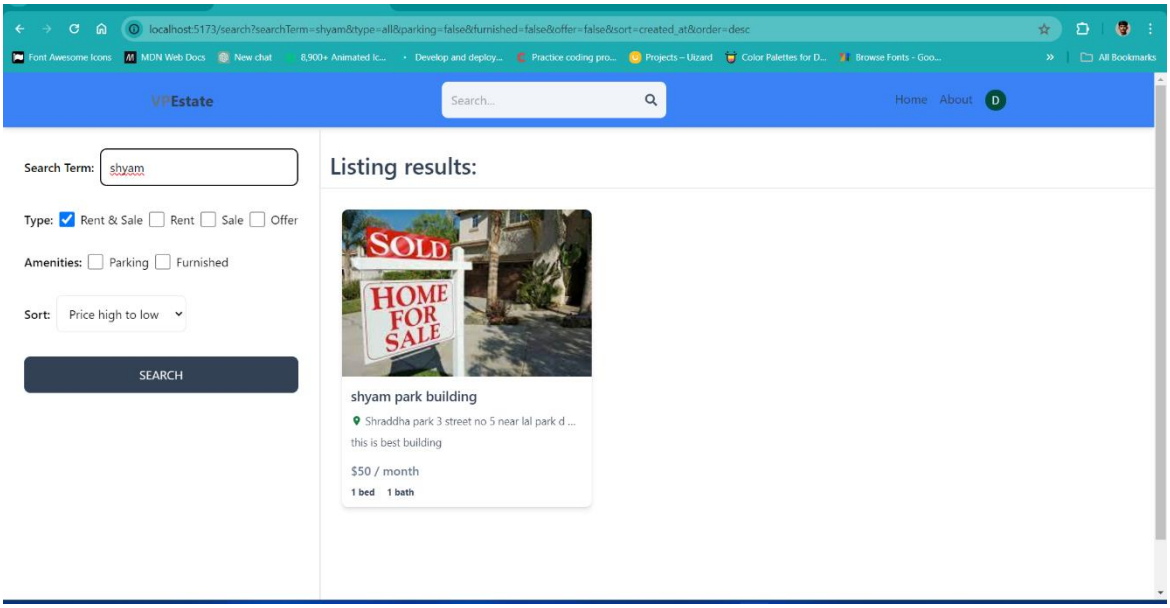


About VP Estate

VP Estates is a premier real estate agency focused on assisting clients in purchasing, selling, and renting properties in highly sought-after neighborhoods. Our team comprises seasoned agents committed to delivering outstanding service and ensuring a seamless experience throughout the buying and selling journey.

At VP Estates, our mission is to empower our clients in realizing their real estate aspirations through tailored guidance, individualized support, and a comprehensive grasp of the regional market dynamics. Whether you aiming to purchase, sell, or lease a property, count on us to accompany you at every stage of your journey.

With a wealth of experience and expertise in the real estate sector, our dedicated team of agents is poised to deliver top-tier service to our clients. We firmly believe that the process of buying or selling a property should be both exhilarating and fulfilling, and were steadfastly committed to ensuring just that for each and every client we serve.



6. Future Enhancements :

Enhanced Recommendation System: Implementing machine learning algorithms to provide personalized property recommendations based on user preferences and behavior.
Virtual Property Tours: Integration of virtual reality (VR) technology to offer immersive property viewing experiences for remote buyers.
Social Media Integration: Allowing users to share property listings and interact with their social networks to increase visibility and engagement.
Multilingual Support: Adding support for multiple languages to cater to a global audience and enhance accessibility.
Blockchain Integration: Exploring the use of blockchain technology for secure and transparent property transactions, including smart contracts and digital signatures.

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7. Conclusion :

The Real Estate Marketplace project aims to revolutionize the real estate industry by providing a comprehensive online platform for property transactions. Leveraging the MERN technology stack, the platform offers a range of features and functionalities to streamline the buying, selling, and renting process for users worldwide. With its intuitive user interface, secure payment processing, and advanced search capabilities, the platform is poised to become a leading destination for real estate transactions in the digital age.