Project Title: HomeBazaar(Real Estate)

Category: Web Application

Purpose

The purpose of developing this "Real Estate" application is to keep the sellers and buyers connected through a virtual platform and thus saving their time. It is a user-friendly application for real estate which allows the buyer to search the property according to their demands and range in just one click. It allows the seller to post the property,delete the property and view its owned properties.

Scope

The Real Estate Web app(HomeBazaar) provides our client(seller) the ability to showcase and manage their property listing while allowing potential clients(buyers) a very simple and structured way of searching properties.The system handles all aspects of viewing and selling of the property. The web app is set up in a way so that sellers will have total administrative rights on their properties.

Introduction

Introduction contains the following subcategories.

- ❖ **Existing System**
  - A real estate agent has to work a lot of hours every day.
  - A lot of time of sellers as well as of buyers is wasted.
  - Purchasing properties/flats directly from project builder/seller sometimes makes the process very tedious for the buyer.
  - Direct chatting is not available on other platforms(applications).

- Storing data in an improper way.

❖ **Proposed System**
- Purchasing any property/flat can be done directly or via an agent.
- Users can chat directly using our inbuilt app chat feature.
- Almost the maximum amount of work is done online and thus saves a lot of time for buyers, agents and sellers.
- Your private information is stored in a well encrypted format.

❖ **Advantages for Buyers**
Advantages for the buyers are explained below:
- **Time and Cost Saving:** For buyers, advantages primarily concern access, time, and cost factors compared to physically purchasing.
- **Remove Travelling:** The buyers do not need to travel as they do not need to go anywhere.
- Buyer can easily interact with agents/sellers to buy houses/flats or apartments.
- The buyer can easily negotiate with the seller/agent to buy the required house/property(via inbuilt chat feature)

❖ **Advantages for Sellers**
Advantages for the seller are explained below:
- The sellers can easily sell their houses by just uploading the location, features and facilities of their houses.
- The seller can save time as they do not need to go anywhere(easily connect with Agents/Buyers).
- The seller can easily negotiate with the agent to sell or rent his/her house or apartments.

❖ Advantages for Agents

Advantages for the Agent are explained below:

- Agents can easily interact(chat) with buyers and sellers without going anywhere.
- For Agents, It's now a very easy task to sell or rent the owner/builder houses.

Functional Requirements

Four types of users will be using this application(AGENT, BUYER , SELLER and ADMIN)

- Users(buyer ,seller, agent or admin) must have valid Username and password to login thus creating their individual profiles.

Seller

1) The registered seller can add properties through their account and those properties should be visible to the users.

2) The property details should include Property Type(Rent or Sale) ,Area, Location , Number of Bedrooms , etc.

3) The seller can contact the agent/buyer and see their status.

Agent

1) The agent should include their Contact details,Area,etc.

2) Agents can directly contact buyers and sellers for property deals.

Buyer

1) The buyer must include their prefered location in which he/she wants an apartment.

2) The buyer has the option to see all/individual property at its prefered location.

3) The buyer can contact the agent/seller for buying any property.

Admin

1) The admin can view complaints made by the buyer/seller or agent.
2) The admin can manage all the users available on the application

Non-Functional Requirements

1) Password and other personal details are first encrypted and then stored in database

2) Good User friendly User Interface Design

3) Secure access of data(User profile)

4) 24*7 time availability(of our web application)

Software Tools

Database Server : MongoDB
Client : Any web browser
Development Tools : VS code and GitHub
Programming Language : JavaScript
FrameWorks/Libraries : ExpressJS, ReactJS, Socket.Io
Environment : NodeJS
Operating system : Windows (8 or higher) and Unix.

Hardware Specifications

Processor : Intel core i3(or similar) or higher
RAM : 4GB or above