GLA University, Mathura

SYNOPSIS

Real Estate Website

Department of Computer Science & Applications

SUBMITTED TO :-

SUBMITTED BY :-

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Declaration

I hereby declare that the project work entitled "REAL ESTATE WEBSITE" submitted to the GLA University, Mathura is a record of an original work done by us under the guidance of Mr. Akash Kumar Choudhary (Technical Trainee) of Department of Computer Science and Engineering. This project is submitted in partial fulfilment of the requirements for the award of the degree of Bachelors in Technology in Computer Science and Engineering.

Submitted by:

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Acknowledgement

It gives us a great sense of pleasure to present the synopsis of the project undertaken during B.Tech III Year. We owe special debt of gratitude to Mr. Akash Kumar Choudhary, Technical Trainer, for providing us with an encouraging platform to develop this project, which thus helped us in shaping our abilities towards a constructive goal and for his constant support and guidance to our work. His sincerity, thoroughness and perseverance has been a constant source of inspiration for us.We believe that he will shower us with all his extensively experienced ideas and insightful comments at different stages of the project & also taught us about the latest industry-oriented technologies.

We also convey our gratitude to our honourable Dr. Rohit Agrawal, Head of Department CSE for his guidance and support. We also do not like miss the opportunity to acknowledge the contribution of all faculty members of the department for their kind guidance and co-operation. We also want to thank our classmates and other students who helped and appreciated our work. Last but not the least, we also want to thank our parents for educating us, for their unconditional support

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<u>Certificate</u>

This is to certify that the Project Synopsis entitled "REAL ESTATE WEBSITE " is submitted to SUPERVISOR Mr. Akash Kumar Choudhary(Technical Trainer) of the department of Computer Science and Engineering ,GLA University, Mathura in partial fulfilment for the award of the degree of Bachelor of Technology in Computer Science and Engineering is a record of Bonafide Certificate carried out by :

GAURI AGRAWAL   (University roll no:201500252)
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Signature of Head of Department   **Signature of Supervisor**
Rohit Agrawal   Akash Kumar Choudhary
                                                                        (Technical Trainer)

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INTRODUCTION

Abstract

It is only recently that technology has reached a level of stability, usability and affordability which permits its use in real life day to day scenarios rather than just research projects. The main advantages of online bookings are flexibility and accessibility. The purpose of this project is to automate the existing manual system by the help of computerized equipments and full-fledged computer software, so that the valuable data/information of patients and doctors can be stored for a longer period with easy accessing and manipulation of the same. Helping people to search for property is our main objectives.

Motivation(Reasons for choosing this project

The manual real estate agency follows a lengthy and hectic process. People need to meet the agent in person, for checking the property details and also needs to visit the location. It takes long time to look for the desired location and desired type of property. .We have to contact with the help of mediators, but the mediators takes lot of amount and it is also time consuming process and so on. That's why we developed this real estate web application to overcome this difficulty, to make it easier for everyone to purchase and sell their property without any hassle.

This online Property management system can help you to get best property by just sitting at home or anywhere. People can book their favorite property online just after a few clicks. In this system the agents can add the property for selling/renting purpose and users can buy or book a property . Thus, we have planned to implement a Web-based doctor appointment system.

Problem Statement

The purpose of this project work is to develop an online system for seeing properties to buy and rent in an easy way which helps in saving time and effort of both the owner and the buyer.

Main Objectives of the project

The primary objective of this website is to showcase property listings. This includes providing detailed information about available properties, such as their location, features, pricing, and images. The goal is to attract potential buyers or renters to view the listings and inquire about the properties.

Another objective of real estate website is to provide valuable market information to users.

Scope of the Project

The scope of real estate websites is continuously evolving as technology advances and the real estate industry undergoes changes. In terms of customers, this website is easy-to-use for searching and comparing properties, accessing property details, connecting with real estate agents or brokers, and obtaining valuable information. It provides resources for sustainability, social impact, and community information, helping customers make informed decisions based on their preferences and needs.

Feasibility Study

Feasibility study includes consideration of all the possible ways to provide a solution to the given problem.The proposed solution should satisfy all the user requirements and should be flexible enough so that future changes can be easily done based on the future upcoming requirements.

Economical Feasibility

This is a very important aspect to be considered while developing a project.We decide the technology based on minimum possible cost factor
All hardware and software components has to be borne by the developer organization.

Technical Feasibility

This includes the study of function,performance and constraints that may affect the ability to achieve an acceptable system.For this feasibility study,we studied complete functionality to be provided in the system,as described in the system requirements and checked if everything was possible using the different types of frontend and backend platforms.

Operational Feasibility

No doubt the proposed system is fully GUI based that is very user friendly and all inputs to be taken all self-explanatory even to a layman.Besides,a proper testing and training has been conducted to let the users know the essence of the system.

Working methodology of the project

This platform caters to all your real estate needs. Whether you're buying, selling, or renting a property, our website is designed to provide you with a seamless and convenient experience.

This website features an extensive listing of properties, including residential homes, commercial spaces, and investment properties, in various locations. Our advanced search filters allow you to narrow down your search based on your specific requirements, such as price range, location, and property type, making it easy to find your dream home or the perfect investment opportunity.

For sellers, our website provides valuable tools to showcase your property, including high-quality photos, virtual tours, and detailed property descriptions. You can also easily request a free home valuation to accurately price your property and attract potential buyers.

Hardware Requirements: -

The Website will smoothly run or operate on any system with –

• Processors above or equal to Intel core i3.

• Any system with Ram (4GB or higher).

• System with any operating system.

• A web browser is needed.

• Active Internet Connection (at leas120kbps)

Software Requirements: -

- React
- Nodejs
- Mongodb

Front End: -

HTML - HTML stands for Hyper Text terminology HTML is that the standard terminology for creating sites HTML describes the structure of an internet page HTML consists of a series of elements HTML elements tell the browser the way to display the content.

CSS - CSS stands for Cascading Style Sheets CSS describes how HTML elements are to be displayed on screen, paper, or in other media CSS saves tons of labour. It can control the layout of multiple sites all directly External stylesheets are stored in CSS files.

Java Script - JavaScript is the world's most popular programming language. JavaScript is that the dominant client-side scripting language of the online. JavaScript is easy to learn. JavaScript, often abbreviated JS, may be a programming language that's one among the core technologies of the planet Wide Web, alongside HTML and CSS.

React JS - React is a JavaScript library for building user interfaces.React has been designed from the start for gradual adoption, and you can use as little or as much React as you need. You can add React to an HTML page in one minute. You can then either gradually expand its presence, or keep it contained to a few dynamic widgets.

Back End: -

Node.JS - Node.js is a popular open-source, cross-platform, back-end JavaScript runtime environment. It is built on the Chrome V8 JavaScript engine and enables developers to create highly scalable and fast network applications. Node.js uses an event-driven, non-blocking I/O model that makes it ideal for building real-time applications, such as chat applications and online games. Node.js offers a vast library of pre-built modules, making it easier for developers to add functionality to their applications. Node.js is also highly flexible, as it can run on a variety of platforms, including Linux, macOS, and Windows.

Mongoose - Mongoose is an Object Data Modelling (ODM) library for MongoDB and Node.js and it manages relationships between data, provides schema validation, and is employed to translate between objects in code and therefore the representation of these objects in MongoDB.

Database: -

MongoDB - MongoDB is a source-available cross-platform document-oriented database program. Classified as a NoSQL database program, MongoDB uses JSON-like documents with discretionary schemas. MongoDB is originally developed by MongoDB Inc. and licensed under the Server-Side Public License.

Module In the Project
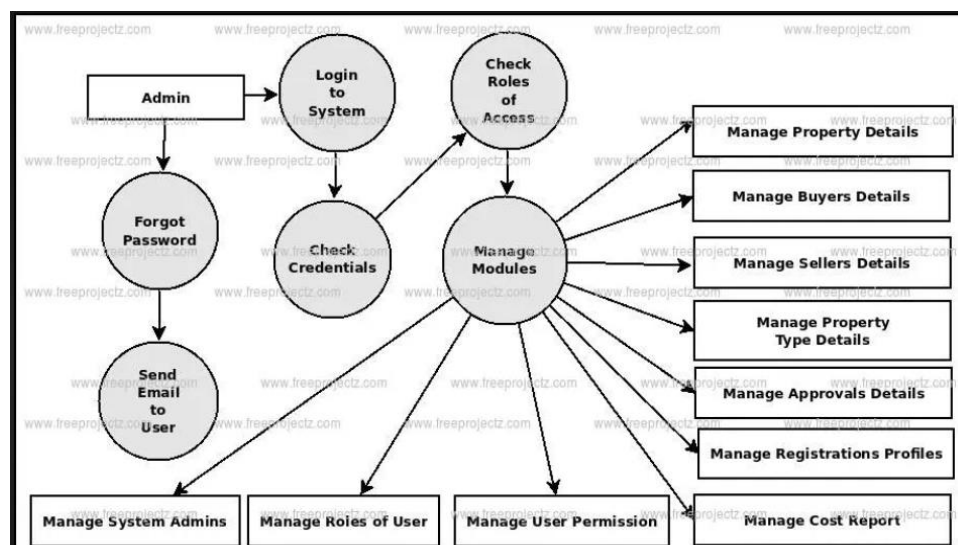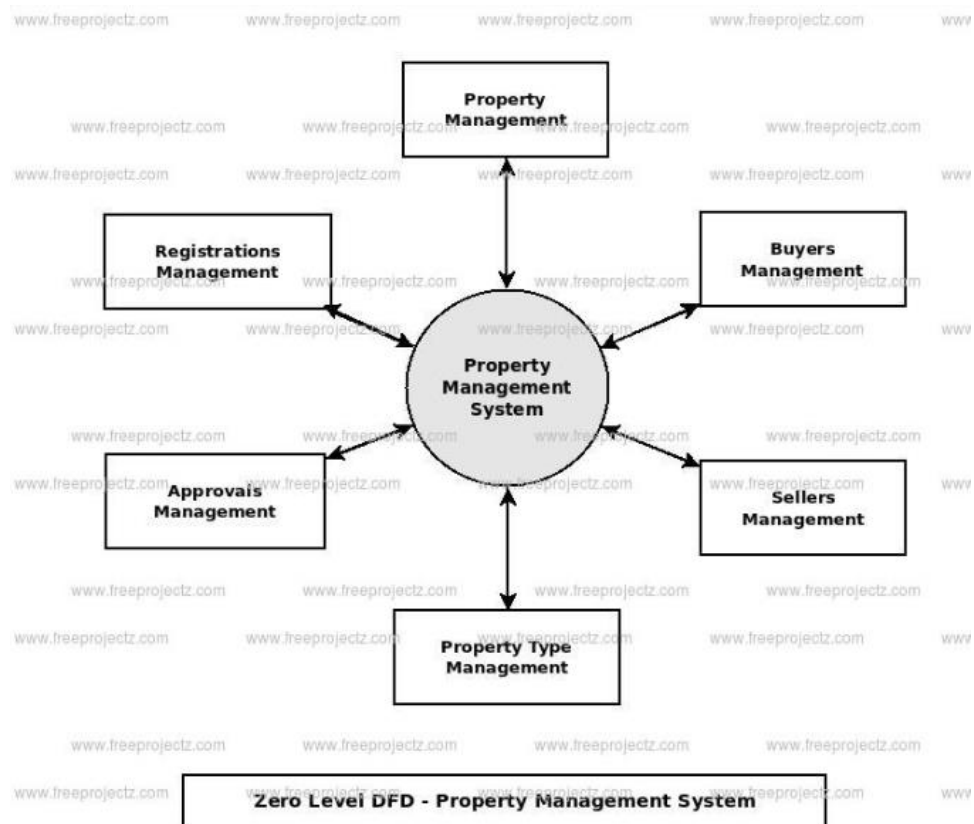
The modules involved in this project are: -
- Admin
- User

Admin:
- Can maintain whole site.
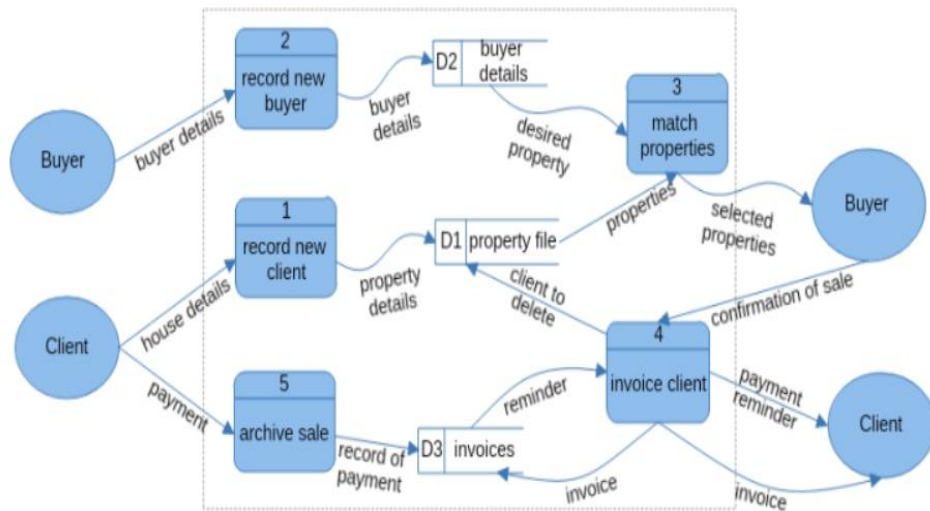- Can maintain all record of users.
- Can make changes to data.

User:
- Search Land and Buildings.
- Give review.

Data Flow Diagrams

Property
Management

Registrations
Management

Buyers
Management

Property
Management
System

Approvals
Management

Sellers
Management

Property Type
Management

Zero Level DFD - Property Management System

Admin

Login
to
System

Check
Roles
of
Access

Forgot
Password

Check
Credentials

Manage
Modules

Manage Property Details

Manage Buyers Details

Manage Sellers Details

Manage Property
Type Details

Send
Email
to
User

Manage Approvals Details

Manage Registrations Profiles

Manage Cost Report

Manage System Admins

Manage Roles of User

Manage User Permission

Level 1 DFD

Estate Agency Data Flow Diagram (Level 1)

Future Scope of the Project

In a nutshell,it can be summarized that the future scope of the project circles around maintaining information regarding :

- We can add printer in future
- We can give more advanced software including more facilities such as comparison between two or more properties
- We can host the platform on online servers to make it accessible worldwide
- We can integrate multiple load balancers to distribute the loads of the system
- Implement the backend mechanism for taking backup of codebase and database on regular basis

Conclusion

In conclusion, this website will help real estate professional or agency to establish a strong online presence and attract potential clients. With a user-friendly interface, responsive design, and informative content, a real estate website can serve as a valuable tool for showcasing properties, providing important information to buyers and sellers, and generating leads. By incorporating features such as property listings, search functionality, mortgage calculators, and contact forms, a well-designed real estate website can enhance the overall customer experience and streamline the buying or selling process. Additionally, leveraging social media integration, SEO optimization, and mobile responsiveness can further amplify the website's reach and visibility. Whether you're a real estate agent, broker, or investor, a well-executed real estate website can be a powerful marketing tool in today's digital age. Invest in a professional website to establish your online presence, build credibility, and grow your real estate business..

Reference Websites:

1. https://code.visualstudio.com
2. https://nodejs.org/en/
3. https://developers.google.com
4. https://github.com
5. https://reactjs.org/

GitHub Repository link:

https://github.com/B70-Yugal