

Statistical House Renting System

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Abstract— In this paper we have developed a graphical representation of rental housing web application using html, CSS, PHP, Java, Android studio and MongoDB for storing data .This gives the functionality for buyers, allowing them to search for houses by using various features and also solve queries using chatbot or simply ask doubts in comment section. It further provides functionality for the seller, authorize them to log into the system and add new advertisements or delete existing ones. For this each user is provided a login account with login ID and password. In this project we are using html, CSS, BOOTSTRAP, PHP, and Java to create a website which makes it easier for a user to search for their favourite houses for preferable conditions. This will be beneficial for customers as well as landlords. An efficient home rental system which users can access through their mobile phone with no hassle is a desire of every tenant. In this era of technology no one want to roam around to find a vacant house. House for living is one of the basic needs of people, therefore to make it easier and accessible by every people we represent a statistical home rental system which provides every needed facility. There will be many other features like a chat bot, filters and review box for receiving public views for our services. The system was developed in such manner that it provides maximum user friendly interface.

Keywords: Statistical House Renting System

I. INTRODUCTION

Statistical House Renting is a simple web based application and also an android application which will help customers to find out a suitable house for them with favourable conditions applied. Not only this, but the application will also be providing many other services like chat bot, a map, a review box.

Whenever a customer searches for a house all he/she needs to do is filter out their entire requirement and the page will suggest them with the suitable houses available with those conditions. They can also specify an area if they in which they want the house to be at although it is not mandatory.

Our goal is to make the system as user-friendly as possible. For this purpose, we have shrink the whole in via an icon in the mobile phones as well so that the users can search for vacant houses and transport at any time. To minimize any kind of communication gap, we introduce a chatting system between agents and admin. Therefore, the house renting system hold features like searching, tenants can search for vacant houses randomly according to their wishes based on unique area or city. Additionally, they can add their wish list if their desired home is not available. There will be a chat system in which admin and agent can chat directly and review box for receiving public views for our services Therefore, we create such a safe and user friendly platform so that they can rent house efficiently and in a hassle free procedure.

II. PROPOSED SYSTEM

Our proposed system will have the following prominent feature:-

- 1) Chatbot: This feature provides user to ask any queries related to renting any property.
- 2) Comment/Review box: This is used for receiving public views for our services.
- 3) Searching: This feature provides the related information to the users according to the specification they have provided to the website. For e.g., if a user is looking for a renting house with 1bhk at 28000, then only those properties which satisfy the mentioned demand will be returned to the user.
- 4) Adding property for sale: A user can add his property that he is willing to sale so that it can be viewed by other clients focused in similar property. For this purpose the client is supposed to enter the location, pictures and the cost at which he/she is willing to sale that property.

The aim of this project is to develop Statistical house renting system which provides user friendly interfaces to the users along with some additional features. This is a basic website as well as application where user can register and login to system and manage their properties. User can add properties to the sale, buy, rent and can also know the prices of the property in various areas.

III. PROBLEM DEFINITIONS

Roam around to rent a house has always been a hassle for people. Especially, on recent times, people have so many priorities based on which they have to rent their house. Some people want their house to be in the commercial space, or some want in a chaos free space. Some people prefer to choose the area of their house relating the religion they belong. Again there are a lot of people who love pets; therefore they want a house which has pet allowance. Basically, in this era of modernism people want to rent their house like online shopping. To rent a house in physical world has become less popular now a days. No one wants to roam around here and there to search for a house. People would prefer a virtual system to rent a house.

To decode this situation and to represent a hassle free environment to the people, a dynamic system can be implemented. That system would give the tenants the best service for renting houses without any kind of hassle. Government can make one unique system where people can rent house based on their priority instead of having so many rental systems. In that system, all the vacant houses will be listed there. One system will hold every details of every vacant house from any district, any are. To, make the system more liable, there should be a system by which tenants can verify the owner or agent. Also to analysis the place they will rent for house they need to know the location of that. Hence, every information details which have minimum priority to rent a house will hold by the system.

IV. EXISTING SYSTEM

In the existing system the most property managers manage their property and tenants details on the paper itself. Once customer finds a vacant house for buying/renting they can call or email the owner of the house through agent or directly. The property manager can email them back giving them detailed information about the house. The details can include rent per month, Deposit paid and terms & conditions to follow etc.

V. PROBLEMS OF EXISTING SYSTEM

The current system recording the details of various activities of user is completely manual and involves a lot of paper work. Each house has a separate file that contains the various details of the house which includes house number, size, expected deposit and rent per month. The document contains the tenant's first name, last name, mobile number and payment date.

The existing system only provides text based interface which is not as user friendly as Graphical user interface. Since the system is implemented manually, the response is very slow and may further lead to the data loss. Hence there is need to reform the system with additional features and advantages.

VI. REQUIREMENTS ANALYSIS

Requirement analysis involved defining project objectives and defining customer needs. It includes the following requirements:

A. User Requirements

It entailed user involvement and statements of facts and assumptions that define the expectations of the system in terms of mission objectives, environment, constraints and measures of effectiveness and suitability. Basically the users:

- 1) A system that improves on the efficiency of information storage and retrieval.
- 2) A system that is easy to learn and use (User-friendly)
- 3) A system that is fast in processing transactions
- 4) A system that is flexible, safe and convenient

B. Functional Requirements

This is a necessary task, action or activity that was accomplished. The proposed system is able to:

- 1) Allow administrator to add a houses, tenant and defaulters details
- 2) Allow the administrator to delete houses, tenants and defaulters details
- 3) Allow the administrator to search data in the database
- 4) Allow the administrator to edit data in the database

C. Hardware Requirements

- 1) Processor 2.0 Ghz processor speed
- 2) Memory 2GB RAM

D. Software Requirements

- 1) Operating System - Windows 10
- 2) Microsoft Office Power point- Used during presentation
- 3) Microsoft word 2010 – Used for report making

E. Technical Feasibility

The following are the technical feasibility for our project:-

- Computer system – i3 or i5 with 8GB RAM, 500GB hard disk.
- Required Backend –
 - PHP
 - JavaScript
- Required database –
 - MongoDB
- Required Frontend –
 - HTML
 - CSS
 - BOOTSTRAP
- Required Software –
 - Android Studio
 - Xampp

VII. PROJECT OBJECTIVES

The following are the project objectives:

- To develop a system that allows user to add, edit and delete data from the database.
- To develop a Statistical house renting system that allows the user to view customer's data as well as houses record.
- To develop a user friendly and secure system that provides user with friendly interface.
- To develop Statistical house renting system with advance feature like graphical representation
- To study and analyse the requirement specifications of the rental house management system

VIII. ADVANTAGES

- 1) The System which will allow the user to quickly and easily search a property for buy and Sell.
- 2) The register user can upload his property for sale or rent out.
- 3) The System is design and developed in such way that it tries to overcome all the prescribe problem.
- 4) The system being an online system will give accurate information regarding the property which helps to view all the stuff information directly from anywhere
- 5) It helps the people to sort out the problems of finding a house suitable as per their needs
- 6) It also further justifies the number of commercial utility found in the particular area and display the number of commercial utilities around the area.

IX. EXPECTED OUTPUT:

Home
Home Search Results Categories Single Property Blog Contact


Property Details

Country Style House with beautiful garden and terrace

London, 76 Guild Street, EC3P 3WF

For Sale

\$345,000



Registered ID: **0D05426FF1**

Description


Online platform where real estate trade is taking place in a much faster and newer manner. We not just help you with finding the ideal real estate, but also ensure that your buying journey is as smooth as it can be. We understand that while renting a property, there is a lot of factors to be taken into consideration, like the locality, preferred area, budget, amenities, so if a lot more. If you wish to make property investment in top cities, we present regular property details for sale, upcoming projects by renowned builders, budget real estate, luxury real estate, houses, flats, etc. A wide variety of listing that is advertised here gives you an excellent overview of all property available in the area you are considering.

Lot Size: **2561 sqft**

Beds: **9**

Baths: **2**

Garage: **1**



Listed by

Oliver G Harris

Office: 1-139-954-3228

Mobile: 1-517-228-7751

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Property Features

✓ Home theater	✓ Carpeting	✓ Attic fans
✓ Media room	✓ Concrete	✓ Ceiling fans
✓ Family room	✓ Bamboo	✓ Thermostats
✓ Gym/workout room	✓ Stone	✓ Single flush toilets
✓ Library	✓ Tile	✓ Window shutters
✓ Butler's pantry	✓ Laminate	✓ Solar heat
✓ Sunroom	✓ Cork	✓ Solar plumbing
✓ Downstairs's bedroom	✓ Vinyl / linoleum	✓ Solar Screens
✓ Basement	✓ Manufactured wood	✓ Storm windows
✓ Guest quarters	✓ Marble	✓ Tankless water heater
✓ Wine storage	✓ Wood	✓ Skylights or sky tubes

Country Style House with beautiful garden and terrace

Location Show on Map

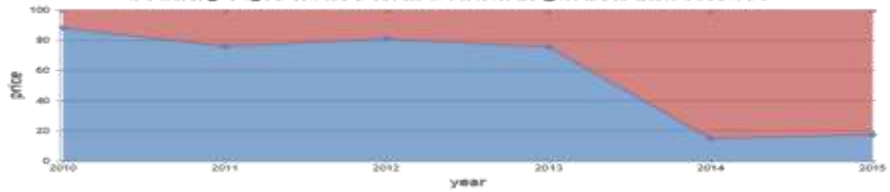
Lot Size: **2561 sqft** Beds: **9** Baths: **2** Garage: **1**

For Sale

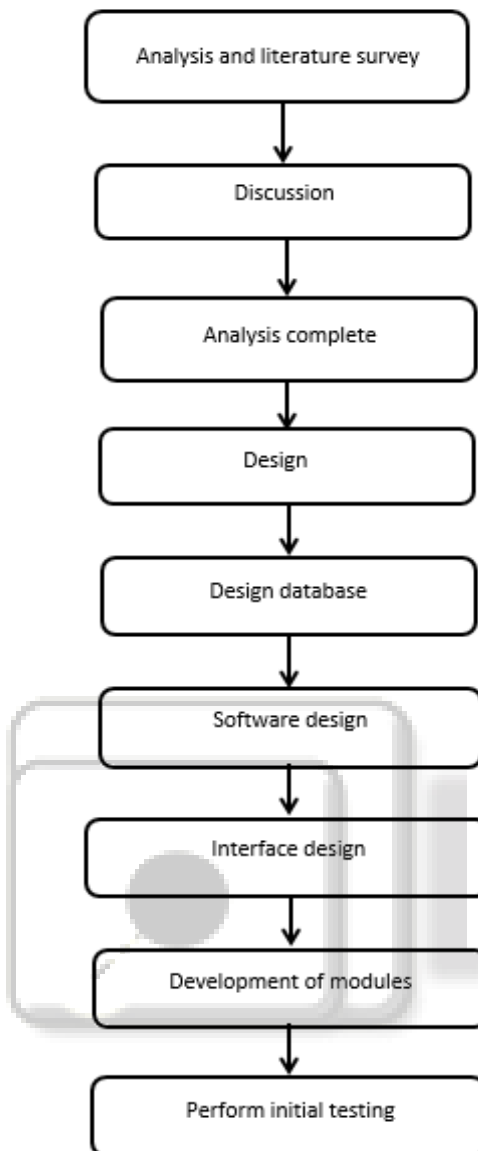
\$345,000

[View Property](#)

Country Style House with beautiful garden and terrace



X. PROJECT PLAN



XI. FUTURE SCOPE

The project scope defines the description of the work that is required in delivering the rental house management system. The following are the scopes of work during the course of the project: Study and understand the requirement of this project:

- Use of Hadoop for Big data
- Tie-up with digital marketing
- Enabling you with map through searching services
- Providing efficient search speed
- Improve customer services
- Upgraded graph designs

XII. CONCLUSION

Our project is a web based application that is developed to provide convenience to our customers by making finding a home easier than before. As it provides different kinds of features it makes finding a home on rent easier. It also

provides a graphical data about the price rise for different homes and vice versa.

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