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Design and Implement an App for Renting Property

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Abstract: Nowadays, there is an online rental system curated for things like furniture, car, house etc. which benefits the user. A rental service is a service in which customers arrive to request the hiring of the rental unit. It is more convenient than carrying the cost of owning and maintaining the unit. In this paper we are introducing an Application – The purpose of the project is to reduce the human effort and automate the existing manual method into an application. This application is based on the owner, customer and administrator. Owner and customer both are the main users of this app. Customers already know everything about the rooms by app because they have already seen pictures of the room and are also familiar with the features. It is an extended form of giving out things often organized with numerous local branches and complemented by an application allowing online reservation.

I. INTRODUCTION

The title of our project is RENTO i.e. (Design and Implement an App for Renting Property). This application is used to serve people in finding the facilities of renting rooms and flats with and without housewares.

Nowadays many people are shifting from one city to another for education purposes or for jobs. A person who left his house for study and a job. They can't afford costly rental houses. The existing rental system does not focus on those people we consider both .

This has resulted in the creation of a complex and multi- organizational system of management that includes food, cars, books, furniture and other accessories. Current scenario presents the system for rentals or buying as a very strenuous work. With the massive expansion of Internet and e-commerce technology, the Internet platform is providing a lot of services and advantages for online businesses, especially for online shopping portals.

Online shopping has expanded in business more effectively. This paper constructs the measurement of Three-dimensional models that are appropriate for measuring customer satisfaction of online rentals information platform's security.

This paper also conducts the factor and multiple regression analysis to verify the measurement model.

There has been a long standing debate of whether to buy or rent, there are many applications in today's Competitive digital environment. Existing service performance which provides various rental platforms, starting with MagicBricks, Cardekho.com, RentMojo, OLx,

Furlenco and this list is endless. These applications are domain specific like MagicBricks is concerned with only renting out property, estate or ZoomCar is concerned with renting cars, OLx is Concerned with buying or selling the products or objects used on a daily basis. So, we have added a new dimension, and come up with an application.

Our project is basically managing housing for low income, medium and high income households or this is commonly known as affordable housing. Although the term "Affordable housing" is often applied to rental housing that is within the financial means of those in the lower income ranges of geographical area, the concept is applicable to both middle and high income individuals.

II. LITERATURE REVIEW

The Android Application which is related to our application is also present some of them are: 1. Rental Management System ,2. Rooms for you, 3. Quikr, 4. Idealista

The above Research paper "RENTAL HOUSE MANAGEMENT SYSTEM" written by the authors "Henry Peter Gommans, George Mwenda Njiru" provides us with the information about the Housing Management system.

This research paper was published in the "The International journal of scientific Research Publication-Nov 2014".

The work of the system design was initiated on the basis that the study served as the objective of the Rental Management System.

Through the understanding of computers available in the market and the various facilities provided by the vendors, many of the activities involved were of technical nature and required a certain degree of knowledge of computer related technology.

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Never less,without the active involvement of the user, a system could not be designed in isolation.
The user had a vital role to play at this stage too.
Data collected during feasibility study was utilized systematically during the system design.
Designing a system is a creative process which calls for logical as well as lateral thinking.
At each design making step, the capabilities of the personnel and the equipment is kept in mind, these systematic moves towards the end product is called the logical approach.
The application "ROOM FOR YOU" was developed in December 2015. The objective of this application is to provide ROOMS/FLATS within a specific city (JAIPUR). It also gives facilities to select roommates and it is not applicable all over India. Room for you helps to provide the platform for renting the Rooms throughout the JAIPUR.
This Application provides online resources for all kinds of your Rental earthings and Listing. It is the most comprehensive rental listing database in JAIPUR. This application is designed to handle the latest fast growing rental needs of Owners/Renters. This includes Residential & commercial places such as Houses, Flat, Room, Home, Office for Rent etc.
When you request a room through this App the owners closest to your preferred location will be called by the team, to fulfill your requirements instantly, & you will be served as soon as possible. We are a young & dynamic team working towards disrupting the To-Let Services to change the way people stay away from home.
Another android application is "IDEALISTA" which was developed in 2016. The objective of this application is to provide all the facilities to the customer such as renting, buying and selling of ROOMS/FLATS. It provides ROOMS/FLATS along with house ware items. But this application is applicable only in SPAIN. At Idealista, the leading real estate portal in SPAIN, we designed our App in
in order to find the house that we need or we can sell or lease as easily as possible. If we are looking for a Sharing of Flat or a tenant for our room then our application will be useful. If we need to sell or rent our house, the application allows you to upload the lists for flats, garages, commercial property, offices and all necessary information including upto 40 photos, & if you already have a list on Idealista, you can modify or change as well as add photos. We have thousands of homes and rooms that are advertised on sale and for rent in Madrid, Barcelona and even in the villages. This app will show those who are close to you, thanks to android geo location the application scans a radius of 10 km & provides a list of homes.
Our android application is different from these applications in some features like with selling and renting it also provides users with features of renting housewares and furniture.
It will provide ease to the people shifting from one place to another who will need furniture for their homes and rooms. This will reduce their efforts to personally go and look for furniture.

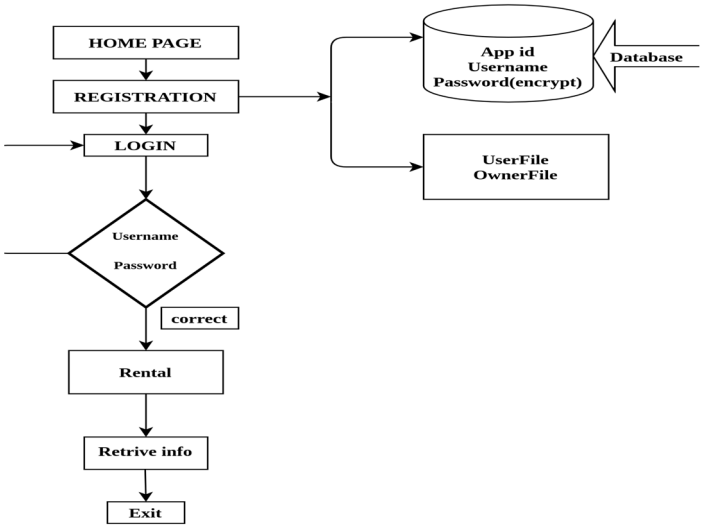
III. PROPOSED SYSTEM

The proposed model is designed and implemented with the objective that it is visible without any registration. This application makes the whole process much easier and flexible.
The need for such an application has become very crucial, time value of money is a concept greatly accepted by the majority of the target audience, and money received in the present time is worth more than the same amount received in the future due to the potential earning capacity, wherein money can earn interest. It can be accessed over the internet. Every user can make their own profile and upload an Ad. Access owner contact number only after registration and pay a small amount of fee.
This project is a mobile based android application with which easy monitoring and renting tasks can be performed in an efficient and centralized manner.
Renting is like a win-win situation for both the owner and customer, property which aren't used much but can still be beneficial to another individual must be rented out, in this way the products will act as an investment for the owner and the customer too gets to switch his tastes and the major problems like time, space and money have been solved efficiently Relationship between the owner, customer and administrator can be easily managed.

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Flow Chart



IV. METHODOLOGY

The basic approach of this application provide the best rental properties to user and protecting clients from brokers key features of this application

A. Protecting Tenant And Landlord From Brokers

1) Very less token amount to book your property
2) Affordable room and house for people of all classes.
3) Easy to upload ads
4) Don't take any charge from the landlord to upload ads of his property.

B. To Achieve Above Mentioned Objective Some Methodology Has Been Followed Which Is Given Below

1) The rental house application is based on android using android studio, java, xml and firebase.
2) Android studio developed by Google for Android application development. it is an open source platform
3) Firebase is a database which is also easy and helpful to provide an android application development environment.

V. IMPLEMENTATION

A. Android Studio

Android studio is a platform designed purely for development of android applications in a much efficient and easier manner. It provides all the tools required in an application. It is quite a user friendly platform where we have many types of resources and objects available. It has all the widgets that are required in the application for the user interface that can be directly dragged and dropped according to the use of the developer. It can be operated or worked with languages such as python and java . All the resources are pre-defined in the platform for easier access for the developer.

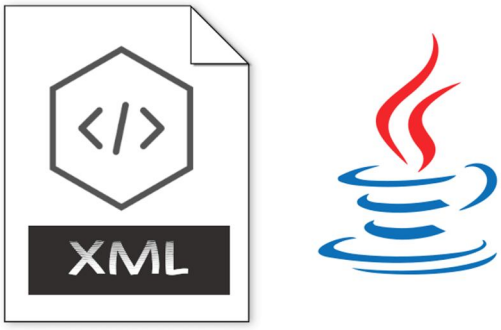
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B. Java



Java is used for writing up all the commands or should say the code for developing all the necessary functionalities that are required in an app. It is an easy to understand language and can be worked upon quite easily.All the necessary functions are coded with the help of Java.

C. XML



XML stands for Extensible Markup Language. Much like HTML (or HyperText Markup Language), XML is also a markup language. In Android we use XML for designing our layouts because XML is a lightweight language so it doesn't make our layout heavy.

D. Firebase



The Firebase Realtime Database is a cloud-hosted NoSQL database that lets you store and sync data between your users in real time.

Firebase is a platform that helps you quickly develop high-quality apps, grow your user base, and earn more money. It is very easy to use in comparison to other databases. You can explore and integrate Firebase services in your app directly from Android Studio using the Assistant.

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VI. FUTURE WORK

Android is one of the most emerging technologies in today's world and can be used in different areas of life. Through this paper we conclude that with this rental management information system, hassle free renting houses can be provided.

There is efficiency in paper procurement for charging the product. The data of all the houses is stored in a centralized manner and the costs can be controlled and monitored by the administrator and owner thus avoiding the over-budgeting.

Data storage will also ease the process for the owner and the user for performing their actions. Through this application we are trying to promote renting out property used on a daily basis.

Our application is user-friendly, open source and is Free to use. It positively impacts the environmental situation by using fewer products more times. It provides a simple way of collecting useful information to measure this service. Concentrating on customer satisfaction and on their dimensions.

"Reliability", "Responsiveness", "Tangibles" and "Quality" helps us to serve the users in a better manner and thus give us a competitive edge over the others.

VII. CONCLUSION

Hence, the objective of our project is to provide users the facilities of renting rooms and flats with housewares and furniture by reducing efforts of users to personally go and look for ROOMS/FLATS and houses. This application provide the best rental properties to user and protecting clients from brokers

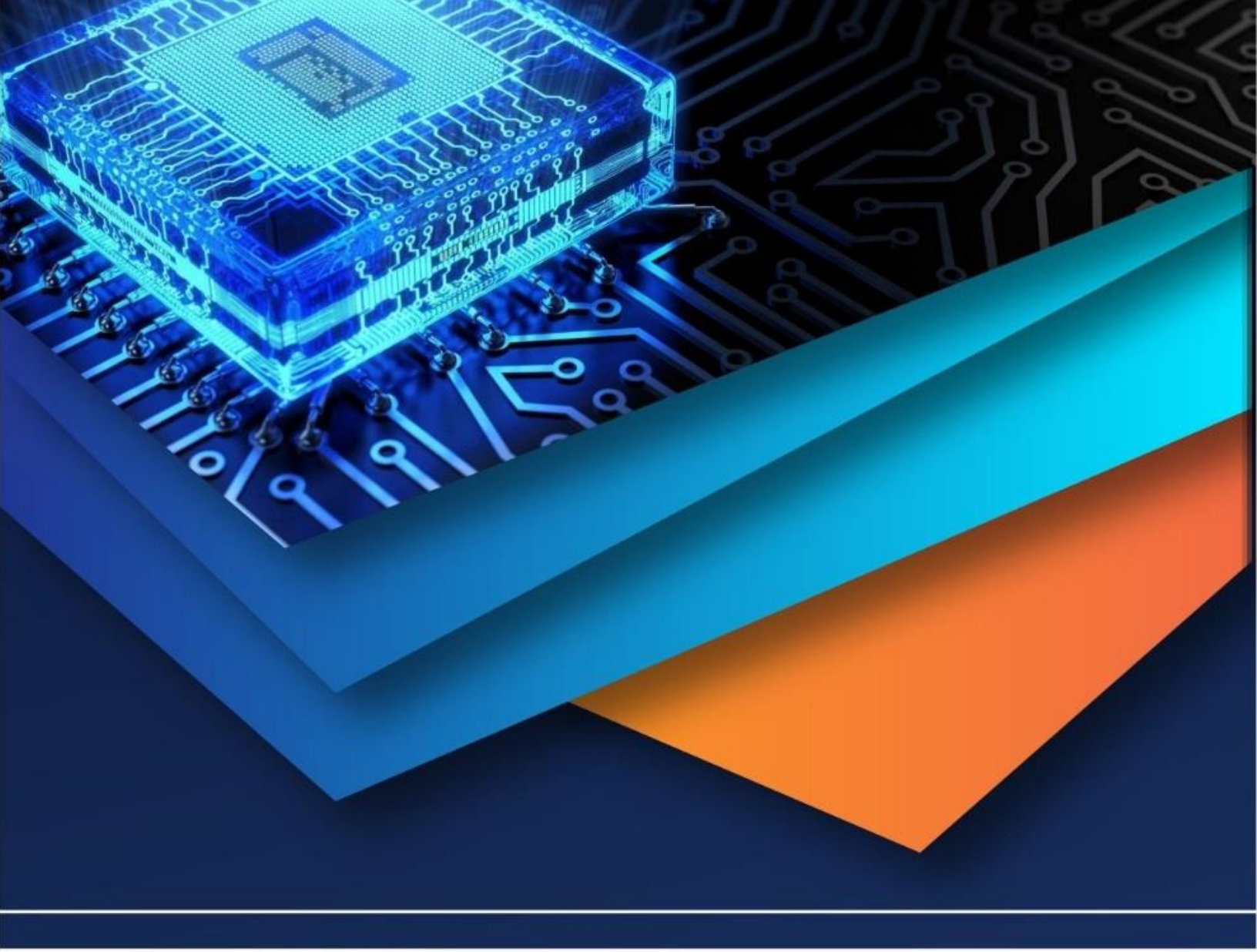
VIII. ACKNOWLEDGMENT

It gives us a great sense of pleasure to present the research paper on Design and Implement an App
for Renting Property during our final year (B.Tech). We Owe a special debt of gratitude to **Mr. Krishan Kumar** for his constant support and guidance throughout the course of our work.
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