



# A Survey on Roomer Up

<sup>1</sup>Mrs. Thejashwini M, Assistant Professor, Department of Computer Science and Engineering, MVJ College of Engineering, India

Sapt Reeshi, Sumit Saha, Vikash Singh<sup>234</sup>, Student, Department of Computer Science and Engineering, MVJ College of Engineering, India

**Abstract:** Technology refers to the collection of tools that make it easier to use, create, manage and exchange information. In the earlier times, the use of tools by human beings was for the process of discovery and evolution. Technology refers the knowledge and utilization of tools, techniques and systems in order to serve a bigger purpose like solving problems or making life easier and better. The development of high technology including computer technology's Internet and the telephone has helped conquer communication barriers and bridge the gap between people all over the world. Boarding house is a temporary shelter in the blocks of room in various size which are inhabited by students and employees from outside the area. In reality, to find the boarding house on the outside area is need a power, cost, and a lot of time. Rental Rooms is the place which is just like second home for the people who live outside from their home. They feel safe while living in room. It's also a way to earn money for many people who are working there as employee. Through this website, tenants can rent properties and landlords can upload their property details for rent. This website will help users to give or take rent houses without dealing with flat brokers to finally reach an agreement that suits the interests of all parties. The packaging and shifting services facility will help users to shift valuable things safely to destinations.

**Key words:** Location, Rental Zone, PG, Mobile App, Romer Up.

## 1. INTRODUCTION

The project, Roomer Up is a app-based application that allows the admin to handle all available room activities online. Interactive GUI and the ability to manage various PG bookings and rooms make this system very flexible and convenient. The owners are very busy people and does not have the time to sit and manage the entire activities manually on paper. This application gives them the power and flexibility to manage then tire system from a single online system. Roomer Up project provides room booking, and other necessary paying guest management features.

We are living in the modern age of technology when we really want is just stuff that works for us. Technology becoming more powerful and already involved in every sector, still, the housing sector remains watchful to face the challenges of change by employing a new strategy that facilitates easy management of rental houses, paying guests, hostels, and flats. This proposed project "The Rental Zone" deals with online house/pg/hostel/flat rent for all the tenants. Nowadays this is so tough for tenants to find suitable accommodation for living if they search it physically. In our modern society, the house rental management has become a very useful factor. This "The Rental Zone" can provide the facilities from any place to find a suitable living area according to their choice. The main foundation of the system is based on the owners and the renters and main purpose was to make an easy way to find the desired house with the desired location for the tenants. Everyone can search for their desired option from anywhere through location, type, and city. Users can log in as an owner or a tenant. He/she can contact the administrator or the buyer to rent his house to him. House owners and landlords will have to be registered users then they can easily post a property with photos, price range, other details, and a short description but it will be added and shown on the website after verifying by admin only or it may be rejected. And this will be informed to the owner or businessman through email whether his post is approved or rejected. Unregistered or general access users of this website can view the rent details and can contact a landlord. In this case, it will save valuable time as well as reduce distress and save unwanted money waste. This system is best applicable for the above reasons making house renting an easy process.

Despite the many inherent benefits of traditional websites, mobile apps and mobile websites are becoming very popular. This is because majority of the consumers now basically browse the Internet using their mobile phones or tablets. PG locator is a mobile app that seamlessly connects and interacts with everyone globally. PG locator is a valuable tool for the modern business. Any news, information,

advertisements, displayed on this website reaches millions of potential customers. A mobile application software or mobile app is application software designed to run on mobile devices such as smartphones and tablet computers. Mobile apps often stand in contrast to desktop applications that run on desktop computers, and with web applications which run in mobile web browsers rather than directly on the mobile device. Mobile applications are a move away from the integrated software systems generally found on PCs. Instead, each app provides limited and isolated functionality such as a game, calculator or mobile Web browsing. Although applications may have avoided multitasking because of the limited hardware resources of the early mobile devices, their specificity is now part of their desirability because they allow consumers to hand-pick what their devices are able to do.

Boarding house is a residence that is temporary and in the form of blocks of rooms in various sizes which are inhabited by students and employees from outside the area. Some students choose the boarding house as a temporary dwelling place because the place to study and work away from home.

The project, Paying Guest Rental Management System is a web-based application that allows the admin to handle all available room activities online. Interactive GUI and the ability to manage various PG bookings and rooms make this system very flexible and convenient. The owners are very busy people and does not have the time to sit and manage the entire activities manually on paper. This application gives them the power and flexibility to manage the entire system from a single online system. Paying Guest management system project provides room booking, and other necessary paying guest management features. The system allows the owner to post available rooms in the system. Students can view and book PGs online.

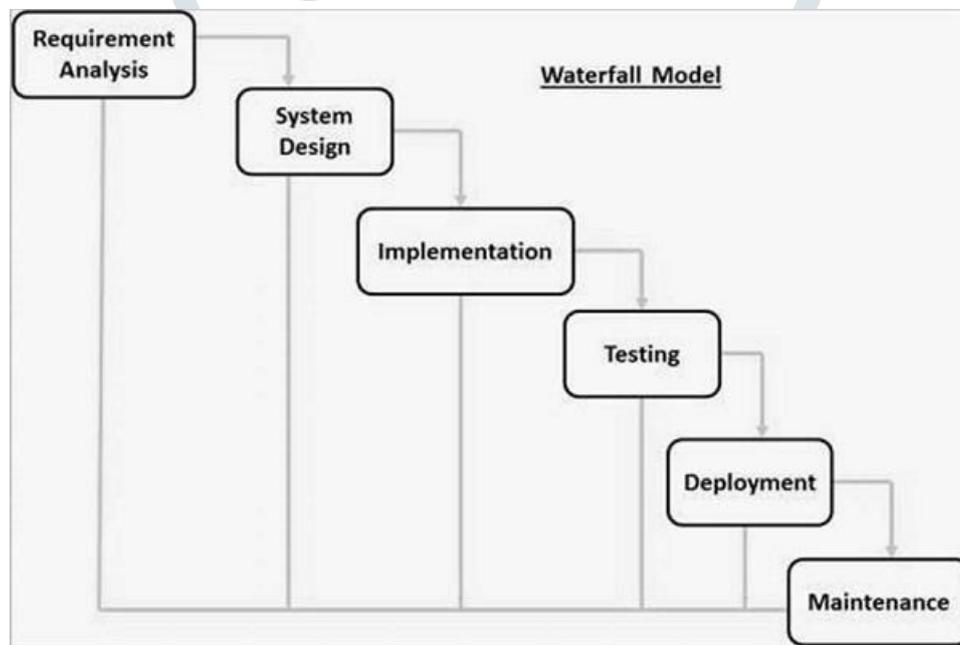


Figure 1: Water Model

## 2. METHODS OF DETECTION

### PHP

PHP is a general-purpose scripting language geared toward web development.[8] It was originally created by Danish-Canadian programmer Rasmus Lerdorf in 1993 and released in 1995. The PHP reference implementation is now produced by The PHP Group. PHP was originally an abbreviation of Personal Home Page, but it now stands for the recursive initialism PHP: Hypertext Preprocessor.

PHP code is usually processed on a web server by a PHP interpreter implemented as a module, a daemon or as a Common Gateway Interface (CGI) executable. On a web server, the result of the interpreted and executed PHP code – which may be any type of data, such as generated HTML or binary image data – would form the whole or part of an HTTP response. Various web template systems, web content management systems, and web frameworks exist which can be employed to orchestrate or facilitate the generation of that response. Additionally, PHP can be used for many programming tasks outside the web context, such as standalone graphical applications and robotic drone control. PHP code can also be directly executed from the command line.

The standard PHP interpreter, powered by the Zend Engine, is free software released under the PHP License. PHP has been widely ported and can be deployed on most web servers on a variety of operating systems and platforms.

## My SQL

MySQL is an open-source relational database management system (RDBMS). Its name is a combination of "My", the name of co-founder Michael Widenius's daughter My, and "SQL", the acronym for Structured Query Language. A relational database organizes data into one or more data tables in which data may be related to each other; these relations help structure the data. SQL is a language programmers use to create, modify and extract data from the relational database, as well as control user access to the database. In addition to relational databases and SQL, an RDBMS like MySQL works with an operating system to implement a relational database in a computer's storage system, manages users, allows for network access and facilitates testing database integrity and creation of backups.

MySQL is free and open-source software under the terms of the GNU General Public License, and is also available under a variety of proprietary licenses. MySQL was owned and sponsored by the Swedish company MySQL AB, which was bought by Sun Microsystems (now Oracle Corporation). In 2010, when Oracle acquired Sun, Widenius forked the open-source MySQL project to create MariaDB.

## HTML

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It is often assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes, and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as `<img />` and `<input />` directly introduce content into the page. Other tags such as `<p>` and `</p>` surround and provide information about document text and may include sub-element tags. Browsers do not display the HTML tags but use them to interpret the content of the page.

## Ajax

Ajax (also AJAX short for "Asynchronous JavaScript and XML") is a set of web development techniques that uses various web technologies on the client-side to create asynchronous web applications. With Ajax, web applications can send and retrieve data from a server asynchronously (in the background) without interfering with the display and behaviour of the existing page. By decoupling the data interchange layer from the presentation layer, Ajax allows web pages and, by extension, web applications, to change content dynamically without the need to reload the entire page. In practice, modern implementations commonly utilize JSON instead of XML.

Ajax is not a technology, but rather a programming concept. HTML and CSS can be used in combination to mark up and style information. The webpage can be modified by JavaScript to dynamically display—and allow the user to interact with the new information. The built-in XMLHttpRequest object is used to execute Ajax on webpages, allowing websites to load content onto the screen without refreshing the page. Ajax is not a new technology, nor is it a new language. Instead, it is existing technologies used in a new way.

## Query

A query can either be a request for data results from your database or for action on the data, or for both. A query can give you an answer to a simple question, perform calculations, combine data from different tables, add, change, or delete data from a database.

In a well-designed database, the data that you want to present through a form or report is usually located in multiple tables. A query can pull the information from various tables and assemble it for display in the form or report. A query can either be a request for data results from your database or for action on the data, or for both. A query can give you an answer to a simple question, perform calculations, combine data from different tables, add, change, or delete data from a database. Since queries are so versatile, there are many types of queries and you would create a type of query based on the task.

## Java Script

JavaScript, often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on users' devices.

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard. It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

## Xampp

XAMPP is a free and open-source cross-platform web server solution stack package developed by Apache Friends, consisting mainly of the Apache HTTP Server, MariaDB database, and interpreters for scripts written in the PHP and Perl programming languages. Since most actual web server deployments use the same components as XAMPP, it makes transitioning from a local test server to a live server possible.

XAMPP's ease of deployment means a WAMP or LAMP stack can be installed quickly and simply on an operating system by a developer, with the advantage that common add-in applications such as WordPress and Joomla! can also be installed with similar ease using Bitnami.

## Visual Studio Code

Visual Studio Code, also commonly referred to as VS Code, is a source-code editor made by Microsoft with the Electron Framework, for Windows, Linux and macOS. Features include support for debugging, syntax highlighting, intelligent code completion, snippets, code refactoring, and embedded Git. Users can change the theme, keyboard shortcuts, preferences, and install extensions that add functionality.

Visual Studio Code is a source-code editor that can be used with a variety of programming languages, including C, C#, C++, Fortran, Go, Java, JavaScript, Node.js, Python, Rust. It is based on the Electron framework, which is used to develop Node.js web applications that run on the Blink layout engine. Visual Studio Code employs the same editor component (codenamed "Monaco") used in Azure DevOps (formerly called Visual Studio Online and Visual Studio Team Services).

## 3. Survey Papers

Voumick, Dipta, et al. (2021) designed and developed an online-based smart house renting web application for both tenants and house owners. This research paper proposed a system for the people of Bangladesh where tenants can rent houses via sophisticated contact with the householders. The purpose of this study is to develop a typical web-based online platform for both tenants and house owners so that both of them will benefit from the system.

Ikuomola, A. J., & Asefon, M. P. designed a secured mobile cloud-based house rental management system to reduce the problem of house rental agents and landlords in maintaining their tenants and their own records which become difficult due to data growth, data security, and lack of computerized system. This research will help householders and tenants overcome the hassles and manage tasks and issues easily in an exceedingly more convenient way.

Rathore, K., et al. (2021) Stated that finding a desired rental property and looking for tenants is a difficult task for both factions. That's why there's a necessity to develop a web rental house management system that may solve all the issues experienced with the present manual system. The focus of this scientific research is managing affordable housing. The purpose of this research is to develop an online platform for people to search out an ideal match for their liking, but the proposed system isn't well managed.

Lack of information about boarding houses is often an obstacle and an opportunity for boarding house brokers (Setyarsih, 2016). Besides that, the boarding houses must be able to use technology to market their boarding houses (Gommans, 2014). With the development of information technology, it increases the ability of computers to solve problems in various fields that need to provide the best solution (Ihsan and Syah, 2014). So it is necessary to develop an information system that be able to facilitate of the users to find the ideal boarding house in accordance with user wishes (Sulaiman et al., 2012).

Hasnat, I., et al. (2019). Stated that nowadays this is very tough for bachelors to find their desired room for living. Because sometimes house owners feel insecure to rent a house to the bachelors. That's why the authors proposed a project named Bachelor House Rental Management System to alleviate the suffering of bachelors while they're trying to seek out an appropriate living area according to their choice. The purpose of this research was to make an easy way to find the required house with the desired location for the bachelor

Prasetyo, Septian Eko, et al. (2018) proposed within their research to develop an information system using the waterfall development method which will be helpful for the people to search out the boarding house in the outside area. The purpose of their research is to develop a geographic data system that will find the boarding house in keeping with the standards of user wishes.

#### 4. CONCLUSION

The main purpose of this house rental website is to make an easy way to find a house/pg/hotel/flat for tenants as they suffer most while getting rent. I gave effort into this website to establish a platform where owners and tenants can easily interact and believe that this rental zone website is a blessing for them and makes their life easier. This online house rental zone is very easy to use, and the best suitable for the owners as well as tenants. PG Locator is a user-friendly app which enables the people to easily locate authorized PGs only. time has been an important factor in everyone's life and when people move to different places to study or to work, they definitely have to waste time in searching for accommodation. This app turns to be very time saving for us. Paying Guest management system is a computerized management system. This system keeps the records of hardware assets besides software of this organization. The proposed system will keep a track of students, accounts and generation of report regarding the present status.

#### REFERENCES

- [1] Voumick, D., Deb, P., Sutradhar, S., & Khan, M. M. (2021). Development of Online Based Smart House Renting Web Application. *Journal of Software Engineering and Applications*, 14(7), 312-328.
- [2] Gommans, H. P., Njiru, G. M., & Owange, A. N. (2014). Rental House Management System. *International Journal of Scientific and Research Publications*, 4(11), 1-24.
- [3] Prasetyo, S. E., Utomo, A. B., & Hudallah, N. (2018). Implementation of Google Maps API 3 with Haversine Algorithm in the Development of Geographic Information System Boarding House Finder. In *Proceedings of the 7th Engineering International Conference on Education, Concept and Application on Green Technology*, Eic (pp. 227-233).
- [4] Ikuomola, A. J., & Asefon, M. P. (2020). A Secured Mobile Cloud-Based House Rental Management System. Department of Mathematical Sciences, Ondo State University of Science and Technology, Okitipupa, Nigeria.

[5] Rathore, K., Syed, A., & Patel, R. (2021). RENTAL HOUSE MANAGEMENT SYSTEM.

[6] Beginning Android Programming by Haseman.

[7] Android Application Development by James C. Sheusl.

[8] Programming Android by Zigurd Mednieks, Laird Dornim, G. Blake Meike, Masumi Nakamura.

[9] Android Programming by Bill Phillips, Brian Hardy.

[10] the Complete Reference JAVA by Herbert Schildt.

[11] Rental House Management System, International Journal of Scientific and Research Publications, Volume 4, November 2014

[12] Implementation of an Android Application for Management of a Housing Society. International Journal Of Engineering And Computer Science. 2015 Jun 12

[13] SMART PG (Paying Guest). International Journal of Advance Engineering and Research Development Scientific Journal of Impact Factor (SJIF): 4.72 Special Issue SIEICON-2017, April - 2017 ISSN: 2348-6406

