



# Online Paying Guest Accommodation Using PHP & My SQL

Dr. Kamal Upreti Professor, IT  
Department Inderprastha  
Engineering College

Abhas Gupta  
IT Department  
Inderprastha Engineering College

Kushagra Mishra  
IT Department  
Inderprastha Engineering College

Gaurav Kumar  
IT Department  
Inderprastha Engineering College

Nayanita Gupta  
IT Department  
Inderprastha Engineering College

## Abstract:

*“Online Paying Guest Accommodation” is a new platform to help people be able to fulfill all their needs for living in a new area. It will benefit the community of students, working people, and therefore the larger community as a whole .*

*The web application will be used by the user for various rental purposes like room accommodations, paying guest services, food services, and other day-to-day activities which right now are available in different applications.*

*Due to their nature of isolation, a particular user when trying to access different features in a single platform finds him in a spot of bother. In order to ease the painful process, we are generating a platform in form of a website, which will merge all the features into*

*one single application. This integrated platform will help the user by saving a lot of data and time.*

*This paying guest accommodation system has been formed to enhance the experience by providing a self service accommodation booking system, while also significantly reducing time consumption on manual processes for residences along with food service, travelling services. The pain of unnecessarily spending money on the housing brokers is also reduced to a certain level with the introduction of this website.*

*This particular system deals with the problems of managing the accommodation and avoiding the problems of being in a new place and finding a place to live in.*

*By using this platform , the user will be provided with easy understanding, saving*



*time, one panel for different jobs and rating and feedback panel.*

*It also provides a payment gateway to avoid hassle.*

*Its disadvantage could be that it requires continuous internet connection.*

*The housing industry is emerging as a good investment sector which has a huge scope in India. This is due to the impressive growth rates in education and employment facilities in the country. Thus infrastructure needs to be created not for education and employment facilities but for providing housing too.[9]*

## Keywords:

Use Case Diagram, Sequence Diagram, and Activity Diagram.

## Introduction:

Nowadays, the technology keeps improving drastically, especially on smartphones, mobile devices etc. This is because the majority of consumers now basically browse the internet using their phones and laptops. Manual use of any kind of work now is downgraded for the society. For example, searching for a place to live in a new unknown city manually is one of the very difficult tasks. It has become easy to search paying guest accommodation nearby the workplace with the help of our web application. It was difficult earlier to go to a place to work which was situated at long-distances and hence had to lose good opportunities, as we don't know where to stay unaware about a particular city.

Using this online paying guest accommodation system, users can find all the available options of paid accommodations nearby their workplace or desired area. Users can also add their own place and get the tenant easily by just adding details and pictures of the respective place. In this system users can register to get login id and

password. Users can log into their accounts using the login id and password set by them after mobile verification using OTP. After the session starts, the users will be able to post various details of their place like water and electricity availability, no. of rooms, bath and kitchen, etc. They are able to see if anyone is interested in the post. The uploaded post can be deleted or removed. Users are further able to search for available paying accommodations and after finding a place they can shortlist the place they are interested in.

For further processing, users will be provided the contact details of the owner of the place selected by them. Thus, ensuring that there is no involvement of any dealer and any extra expense.

Let us consider an example where a first year student belonging to a different state or locality comes to a particular place. Certainly he doesn't have any knowledge about the place. He needs to roam around for hours in order to search a place for shelter, a place where edible food is available. If all these problems are solved by browsing a particular application, the world of the user will turn out to be very easy and accessible. Our website will provide the list of all the available services in the area. The concept is very simple but will turn out to be very helpful and time saving for a particular user because it is completely based on real time issues which a person faces as an immigrant in a new area.

The proposed project is a web application used to book paying guest accommodations and explore various facilities available locally in an area. This not only facilitates the clients but also helps various users to host their accommodation on the website.

## Literature Review:

Literature review is mainly carried out in order to analyse the background of the current project which helps to find out the flaws in the existing



system and guides on which unsolved problems can work out.

A variety of research has been done on learning of collective behavior. [1]

This system allows the user to do their booking online by themselves. Some of the features of the system are providing a query for arriving date and the length of staying, providing the number of On rooms, view all available rooms and provides the user ability to choose one or more of them, recording the number of on rooms, view all available rooms and provides the user the ability to choose one or more of them, recording kind of guests and how many going to be in the single room, providing the cost of booking, storing the user detail; like, name, telephone and address, asking the user for confirmation, final confirmation views with the detail of booking and the guests can review or cancel the booking.

For more understanding, the system is provided with some figures with expiation. The relationship between the web server and the end users and how the users interface stats and the application is done step by step .The relationship between the user and the screen.[3]

The screen transfers HTML codes to the interface and when the user interacts with it some processes are done then the screen shows another page. While the how each page is related to each other. The user can go to the next page in three ways. The first is the user after inserting his/her information goes through pages in a sequence way. The second by navigation and this way provides the user the ability to go to the previous pages or to login page. The final is one user inserted unaccepted the page will keep the current page. [4]

Our app provides the information based on our city. It will provide the information to those people who are staying in our city as a paying guest. Mainly it will give a list of available houses for rent in their required budget along with various services available nearby like restaurants, stationeries, stores, etc.

Along with the paying accommodations, we also provide various facilities like restaurants, laundry service, Gym etc, present in the area. Users will be given a choice to choose from different kinds of menus like Punjabi thali, Gujarati thali etc. Users will also be given the facility to take advantage of nearby laundry service, gym etc. [6]

## **Existing System & Proposed System**

### **Problem with the current scenario:**

It is difficult to find rooms to live as paying guests. In the situation of disaffection from the room, you have to find another room and shift there, which is a difficult task for students or any other person. Students face all kinds of problems when they don't choose the right place to stay. They often get stuck in a bad living environment and don't get nutritious or hygienic food to eat thus affecting their health as well as studies. Also due to lack of information like price, exact location, security measures, the user is unable to find the best PG of their choice. Often the customer may be misguided.

### **Proposed System:**

The proposed system is a web based application and maintains a centralized storehouse of all related information. The system allows one to easily access the relevant information and make necessary decision regarding the PG's selection. Users can take a look at different aspects of the information provided like location map, food, price, transportation facility and event security measures and select the best PG of their choice.



Considering the absurdity in the existing system computerization of the whole activity is being suggested after initial analysis. Proposed system is accessed by one entity namely, User. Users need to login with their valid login credentials first in order to access the android application. After successful login, users can access all the modules and perform each task accurately. Users can perform tasks such as can add his/her own desired places and get the renter easily by just uploading pictures and details of the respective place. User can also provide a query for arriving date and the length of staying, providing the number of On rooms, view all available rooms and provides user the ability to opt one or more of them, recording the number of on rooms, view all available rooms and provides the user the ability to choose one or more of them, recording gender of guests and how many going to be in the single room, providing the cost per month, storing the user detail; like, name, address and telephone, asking the user for confirmation, final confirmation views with the description of booking and the guests can review or cancel the booking.

In this system users can register themselves to get login id and password and after entering login id and password user can get logged in. After logging in, users can post the paying guest post by adding description and photos of the place. He/she can also see the interested users in his/her uploaded post. The uploaded post can be deleted or . User can also view for the paying accommodation and after getting the desirable place he/she can select the place he/she is interested in. After selecting the desired place, the user will get the personal details of the owner, he/she can get in contact with the owner and go for further processing. [5]

We propose a project which is a web application used to book paying guest rental accommodations, food zones, or a restaurant, as well as stationary or student related articles' shops in the closeness of the location of the user. It is an application which includes all the three modules in an integrated platform. When a user browses our website, he/she enters his location (or taken up manually) day-to-day activities in the life of a student include searching for stationary shops. So with using of this website, they can easily find the shops located nearby using Real-time tracking. One of the most important feature of our website is the use of E-Mail notification for availability and updates. When a host advertises his/her service on our website, have the responsibility of updating their status and ratings. [3]

### Modules and their Description:

The system comprises of 1 module where their sub-modules are as follows:

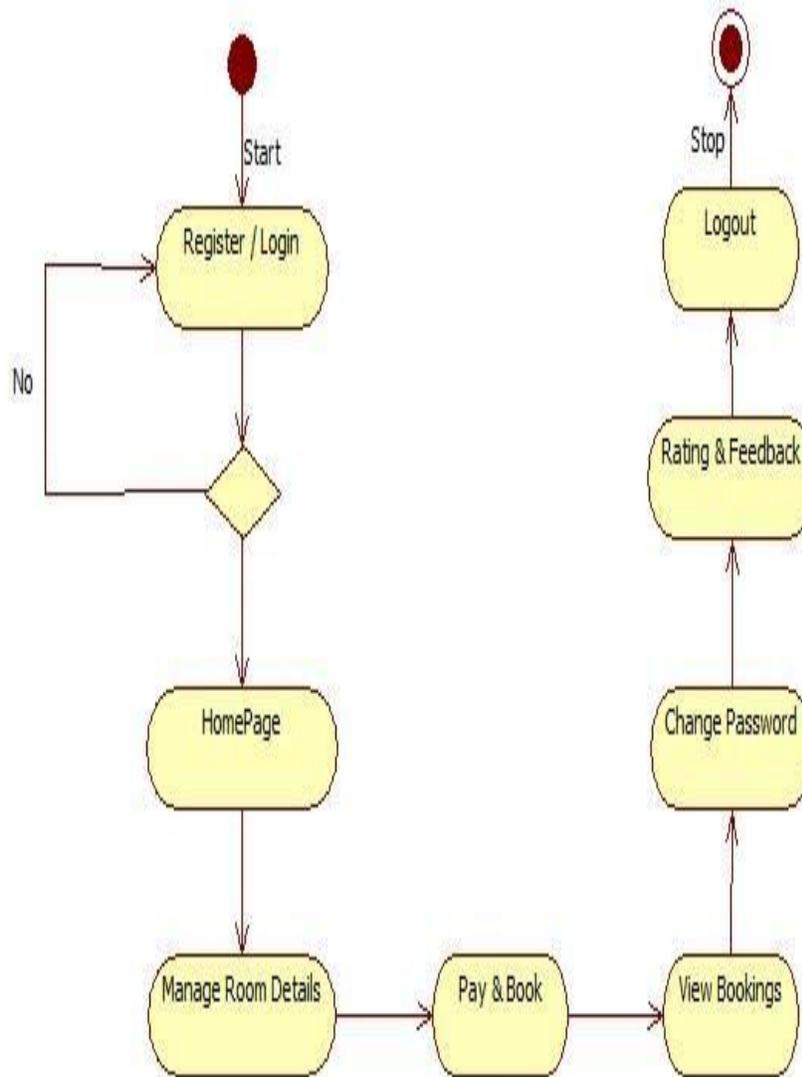
- **User Registration:** Users can register and obtain credentials.
- **Login:** Users can login using credentials.
- **Manage Room Details:** User can manage room details.
- **Search Rooms & Check Availability:** Users can search their desired rooms and check the availability.
- **Pay & Book:** Users can pay and book the room.
- **View Bookings:** Users can view the booking done by them.
- **Search Stores Nearby:** Users can search for facilities nearby.
- **Pay & Order:** User can order online.

- **Change Password:** Users can change or edit their password.

## System Designing

### Activity Diagram:

This diagram graphically represents a sequence of actions or flow of control in a system alike to a data flow diagram. Activity diagrams are usually used in business process modeling. Activities models can be sequential and concurrent. In this figure it shows a series of actions to be performed which start when the user logs in the system, after the validation process, the user can search for desirable accommodations.

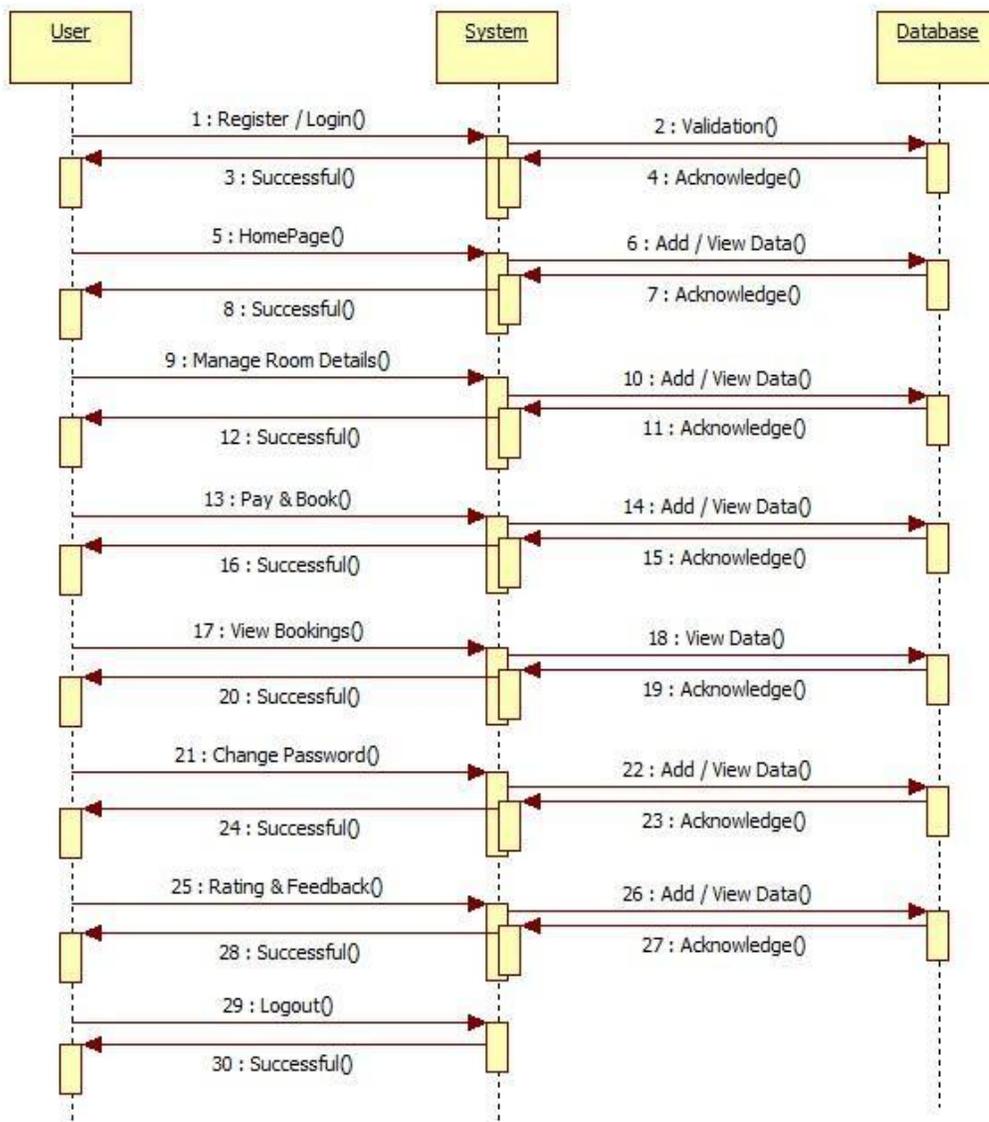


**Figure 1. Activity Diagram**



## Sequence Diagram :

A sequence diagram explains an interaction among a group of objects that are involved during a collaboration, arranged during a sequential order; it displays the objects involved within the interaction by their "lifelines" and therefore the information that they send to every other. during this figure there are 3 objects namely user, system and database which describes the relation among these objects. during this diagram, the user sends the request on to the system then the system verifies the user and performs the validation process. If the request is valid then the task is processed and therefore the database are going to be updated as shown within the figure.

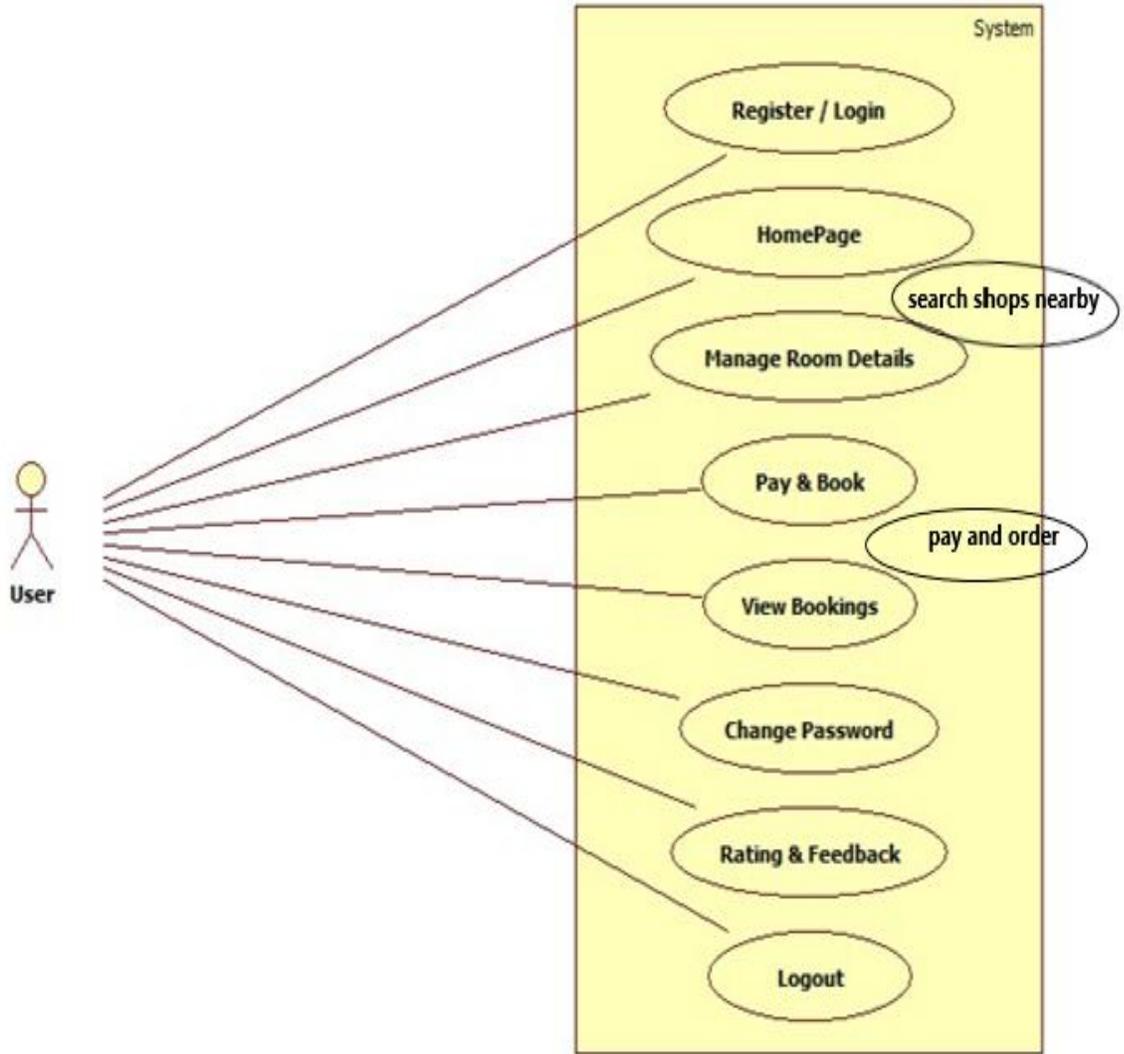


**Figure 2. Sequence Diagram**

**Use Case Diagram:**

A use case diagram may be a representation of a user's interaction with the system that shows the link among the user and therefore the different use cases during which the user is involved. The employment case diagram represents the entire scenario of a system during a precise manner. It consists of actors and use cases. Actors are external users of the system. Use cases define the performance of the system. Within the figure below, shows the employment case diagram of Online Paying Guest Accommodation System where the actor may be a user, it performs various functional tasks like register, login, seek for rooms, view bookings, search shops nearby, pay and order food, change passwords yet as providing feedback etc.

After the validation, users will pay for the rooms and other services.



**Figure 3. Use Case Diagram**

**CONCLUSION:**

Online Paying Guest Accommodation is an user friendly application which enables the people to simply locate authorised PGs and rentals available. Time has been a vital think about everyone's life and when people move to different places to check or to figure they definitely should waste time in trying to find accommodation. This

application seems to be very time saving for us. There have also been certain disadvantages of this app. The app has been reported to hang/lag in underdeveloped phones. in step with a survey, in India ONLY 17% of individuals are using smart phones. So if the app is reported to hold in underdeveloped phones then it's something that's to be taken into consideration and an answer must be provided.



## ACKNOWLEDGEMENT:

It gives us a good sense of joyousness to present the report of the B. Tech Project undertaken during “B. Tech Final Year”. We owe a special gratitude to "Dr. Kamal Upreti” for his constant guidance and support throughout our work. His sincerity, thoroughness and perseverance are a relentless source of inspiration for us. It's only his cognizant efforts that our endeavours have seen light of the day. We also don't wish to miss the chance to acknowledge the contribution of all faculty members of the department for his or her kind assistance and cooperation during the event of our project. Last but not the smallest amount, we acknowledge our friends for his or her contribution within the completion of the project.

## REFERENCES:

- [1]. K. Sumangali, Ch. Aswani Kumar, Open Source Technology, pp. 1111, 2015. CrossRef
- [2]. U. Priss, "Formal Concept Analysis in Information Science", Annual Review Information Science, 40:521-543, 2007
- [3]. Ajit Tripathi, Gaurav Singh, Rajesh N, “Web application for booking & exploring in the nearby location” (IRJET), 2017.
- [4]. Segun O. Olatino and et al. 2014. ” Development of an automated paying guest system”. Journal of Science and Engineering 5(1):1-10.
- [5]. Whitten, Bentley and Dittman. 2004. ”System Analysis and Design Method (5th edition) ” .
- [6]. Krishna Rajput, Nimisha Shah, Kalayani

Adwadakar , “Smart PG”,(IJAERD),2017.

[7]. Akshatha.M , Bhavya .B. M., “PG Locator”, (IJESC),2017.

[8]. Jamie Moss, “Student Accommodation System”, (LSE), 2018.

[9]. Sagar Aggarwal, Kounal Gupta, Mayank Garg, “Scope and Comparison of Student Housing Industry in India”, (IJIFR), 2015.

[10]. Henry Peter Gommans, George Mwenda Njiru, Arphaxad Nguka Owange, “Rental House Management System”, International Journal of Scientific and Research Publications, Volume 4, Issue 11, November 2014.