

# Paying Guest Rental Management System

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**Abstract—** 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. The web applications which are used by the user for various rental purposes like room accommodations, paying guest services, food services, and other day-to-day activities are present in different applications with their respective modules. These modules are not only complicated but also discreet which make the whole task time-consuming and lethargic. So, in this project user just enters her/his location and finds a result of nearby location in which he wants to book a room in just few clicks.

## I. INTRODUCTION

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.

Other PGservices can also be viewed by the students and can book them too. The system is hence useful for both students and admin to portable manage the PG activities.

The admin updates the availability of rooms in different areas and students check the availability of room in a specified location. They should be able to book the available rooms in a particular PG according to their needs in advance to make their stay

comfortable. The admin hands over the booking information of students to the owner. The users of the system can register and log into the system. The owner and admin will know the details of students as well as the booking. The admin maintains the room availability and details in certain database. This project provides high security to admin and user information. The main objective of this project is to design aPaying Guest Rental Management System for running a rental business. Our system is flexible, so that it can be used for different rooms. We found out which procedures rooms have and based on that information; we created a system which makes it efficient.

- Frontend Technology(Client Side):
  - Angular
- Backend Technology (Server Side):
  - Spring Boot
- Database
  - MySQL 8.0
- Browser
- Microsoft Edge, Google Chrome, Mozilla Firefox, Internet Explorer

## II. PROPOSED APPROACH

### A. Existing System

The existing system only provides the information about particular PGs and only some of the PGs has possibility to reserve the rooms. The previous system was failure to publish the room's availability of multiple PG's. And, it is failure to provide defense to admin and user information.

### B. Proposed System

The proposed system focusses on development of a website that targets people looking for PGs in the city Asansol. The proposed Paying Guest Rental Management System is a customized and user-

friendly system that allows to store and hire information about the PG services across the city. It provides facilities such as enquiring about PG, Address and Rent. They will register themselves on the website and this information will be stored for that particular housing. The users will thus be able to access the services provided by the application. The proposed application is developed using Angular as Frontend, Spring Boot as Backend and MySQL as database.

C. Modules used

1.Admin Module:

Admin have every access to the Paying Guest system. Admin is solely responsible for managing PG resources and services. Admin can view any report such as financial report, student information, booking information, and room information, analyze them and take the decision accordingly. Admin is required to have experience on managing PG previously, and have base knowledge of database and application server.

2.Owner Module:

Owner of the PG's sole purpose is to provide the quality student service. They should've least access than admin. They can manage the booking details. They can manage the availability of rooms, add the student, confirm the booking, and update the booking details.

3.User Module:

Students(user) are vital part of the system. Students have access to view the vacant room information and price range. They should be able to confirm the booking and students have access to student service desk portal to forward their inquiry.

B. Use Case Diagram of admin and user module



IV. RESULT AND DISCUSSIONS

To make the work of PG owners easier, the Paying Guest Rental Management System is developed which is for the owners and the students (users). The owner updates the apartment & room details about Room space, Room rent, Pictures and the Address also.

The Paying Guest Rental Management System is the best suitable for the owners because it saves time and there is no need to explain the room details. It is used to easily identify the suitable place and saves time and cost also. It's the best way to search the Paying Guest.

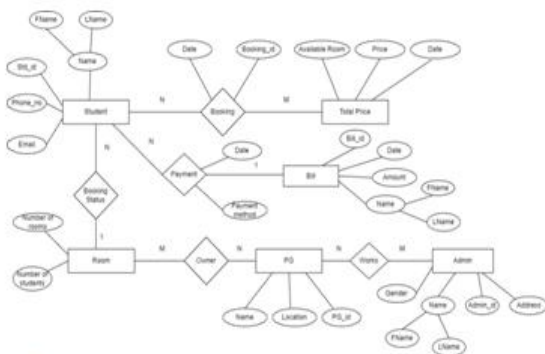
The system will be able to handle many services to take care of all customers in a quick manner. The system should be with an easier User Interface, easy to use and have an overall user satisfaction.

1. Home Page



III. FLOWCHART DIAGRAM

A. ER Diagram



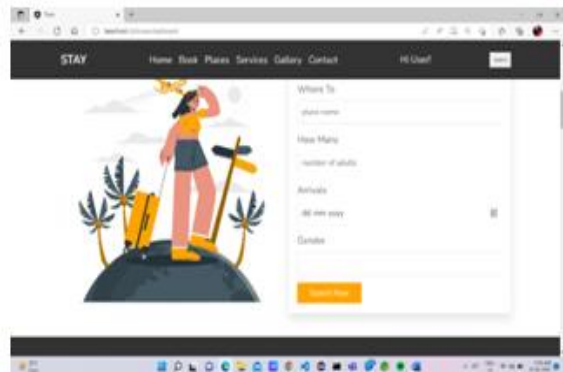
## 2. Registration Page



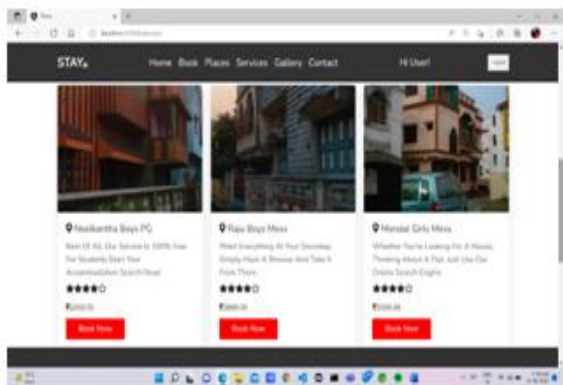
## 3. Login Page



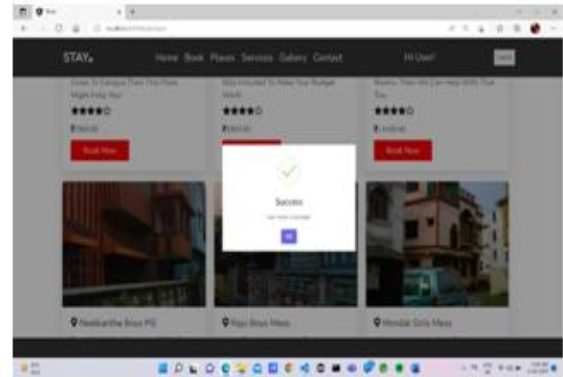
## 4. Search Now Page



## 5. PG List Page



## 6. Booking Confirmation Page



## V. CONCLUSION

The conclusion of this project is a 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.

This project has GUI based software that will help in storing, updating and retrieving the information through various user-friendly menu-driven modules. The project “Paying Guest Rental Management System” is aimed to develop to maintain the day-to-day state of admission/Vacation of students, payment details etc.

The main objective of this project is to provide solution for the owner of the rooms to manage most their work using computerized process through admin. This software application will help admin to handle users’ information, room allocation details, payment details, billing information, etc.

The existing system is a manually maintained system. All the room records are to be maintained for the details of each student, rent details, room allocation, etc. All these details are entered and retrieved manually, because of this there are many disadvantages like time Consuming, updating process, inaccuracy of data. For avoiding this, we introduced or proposed a new system. In this new system the computerized version of the existing system provides easy and quick access over the data.

## VI. FUTURE SCOPE

The future scope of the project is that it will be able to generate online receipt through the system by default and that receipt will be available on users “email id” of whichever transaction or payment will be done by the users or customers.

It will be able to store all the records of a particular user like which user has done how much transaction, in case there’s a multiple user. It will also show the Restaurants, Gyms, Playgrounds, Shops, other PGs nearby. Students will be able to cancel their booked PGs and get a refund instantly.

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