



# Hotel Booking Management System

<sup>1</sup>Azgar Pattan, <sup>2</sup>Boggula Niranjana, <sup>3</sup>Shaik Jakeer

<sup>1,2,3</sup> Computer Science and Engineering

<sup>1</sup>Department of Computer Science and Engineering,

<sup>1,2,3</sup> Madanapalle Institute of Technology and Science, Madanapalle, India

**Abstract:** This project aims at creating on Hotel Booking Management System which can be used by Admin and Customers. The admin to advise/publish the availability of rooms in different hotels and customers are checking the availability of room in required hotel. Customers should be able to know the availability of the rooms on a particular date to reserve in hotel. They should be able to reserve the available rooms according to their need in advance to make their stay comfortable. The admin hands the booking information of customers. The users can register and log into the system. The administrator will know the details of reservation and daily income. The hotel department maintain the seat availability and booking details in certain database This project provides high security to Admin and user information. The main objective of this project is to design a hotel management system for running a hotel business. The system should be as flexible as possible so that it can be used for different hotels. You have to find out which procedures hotels have used for different hotels. You have to find out which procedures hotels have and based on that information; you should create a system which makes it efficient. You need to find out how a hotel system works on the internet, use your own experience or directly talk to people in the hotel business. The more diverse the sources of your information are, the better will be the resulting system and, possibly, your grade.

**Index Terms - Component, formatting, style, styling, insert.**

## I. INTRODUCTION

The design, Hotel Management System is a web- grounded operation that allows the hostel director to handle all hostel conditioning online. Interactive GUI and the capability to manage colorful hostel bookings and apartments make this system veritably flexible and accessible. The hostel director is a veritably busy person and doesn't have the time to sit and manage the entire conditioning manually on paper. This operation gives him the power and inflexibility to manage the entire system from a single online system. hostel operation design provides room booking, staff operation and other necessary hostel operation features. The system allows the director to post available apartments in the system. guests can view and bespeak room online. Admin has the power of either approving or disapproving the client's booking request. Other hostel services can also be viewed by the guests and can bespeak them too. The system is hence useful for both guests and directors to movable manage the hostel conditioning.

## II. EXISTING SYSTEM

In the present system, only provides the information about particular hotel and only some of the hotels has possibility to reserve the rooms. The former system was failure to publish the room's vacuity of multiple hotels. And, it's failure to give defence to admin and customer information.

## III. DISADVANTAGES OF EXISTING SYSTEM

- Booking was limited to one per user.
- Refreshing the available rooms was very slow.
- Security was very low to admin and the user information.
- Password encryption was not enough secure.

#### IV. PROPOSED SYSTEM

The hotel management system provides the quality service to the end customer. This design aims at creating on Hotel Management System which can be used by Admin and guests. The admin to advise/ publish the vacancy of apartments in different hotels and guests are checking the vacancy of room in needed hotel. Guests should be suitable to know the vacancy of the apartments on a particular date to reserve in hotel. They should be suitable to reserve the available apartments according to their need in advance. To make their stay comfortable. The admin hands the booking information of guests. The customers can register and log into the system. The admin will know the details of reservation and day-to-day income.

#### V. ADVANTAGES OF PROPOSED SYSTEM

- More secure than the existing work.
- Increases booking as the availability of the rooms updated quickly by the admins through this project.
- The admin can check all incomes daily and reservation details anytime.  
The customer can order the extra services through online.

#### VI. MODULE DESCRIPTION

There are Three Modules in the Hotel Management System

##### i. Admin

##### ii. Reception

##### iii. User

##### i. Admin Module

**Home:** In this section, admin can compactly view the total new booking, approved booking, Cancelled Booking, Total Registered guests, total read enquires and total unlettered enquires.

**Room Category:** In this section, admin can manage order( add/ delete).

**New Room:** In this section, admin can manage rooms( add/ update).

**Page:** In this section, admin can manage about us and communicate us runners.

**Reserving:** In this section, admin can view new, approved, canceled bookings and also give a comment.

**Reg Users:** In this section, admin can view the detail of registered guests and also add guests.

**Search:** In this section, admin can search enquiry and booking details with the help of his/ her mobile number and booking number independently.

**Reports:** In this section admin can view the enquiry details and check booking details in a particular period.

##### ii. Customer Module

**Home:** It's a welcome page for guests.

**About:** It's a about us runner of website.

**Services:** In this section, guests can view services handed by association.

**Room:** In this section, guests can view details of room which is available in the hotel.

**Gallery:** In this section, guests can view gallery of hotel.

**Book Room** In this section, stoner can reserve the hotel room by registered himself with hotels.

**Communicate:** It's a contact us runner where druggies can shoot the queries to hotel.

**Sign Up:** guests can register through sign up page.

**Login:** It's login page.

**My Account:** After enrolment, stoner can have their own account where he/ she can modernize profile, change word, recover word, and view reserving details of the hotel room.

##### iii. Reception Module

**Home:** In this section, receptionist can compactly view the total new booking, approved booking, Cancelled Booking, Total Registered guests.

**Room Category:** In this section, receptionist can view order.

**Page** In this section, admin can manage about us and communicate us runners.

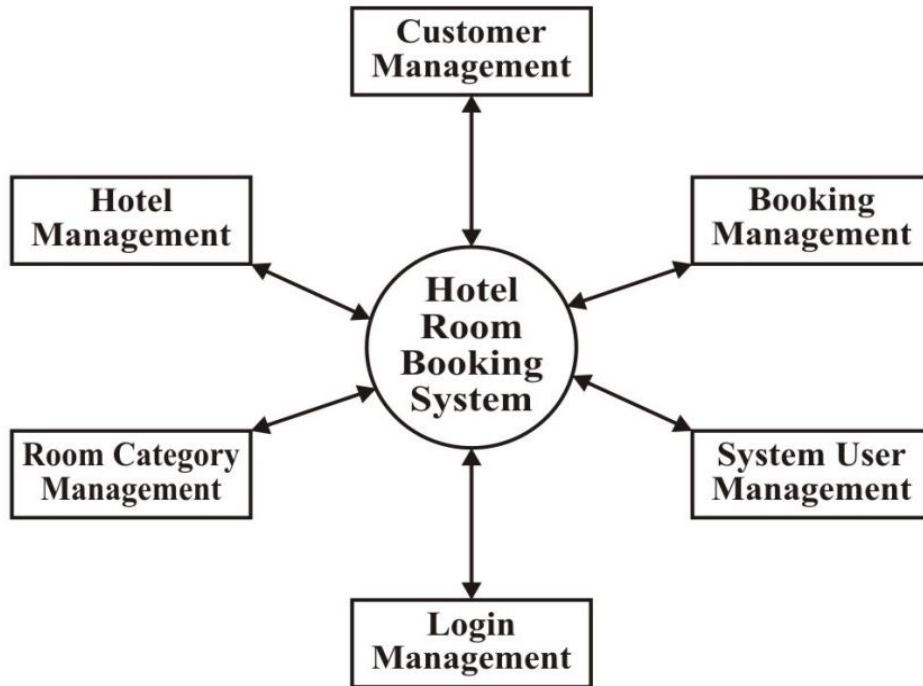
**Reserving:** In this section, receptionist can view new, approved, cancelled bookings and also give a comment. Receptionist can also reserve rooms for the guests.

**Reg Guests:** In this section, receptionist can view the detail of registered guests and also add guests.

**Search:** In this section, receptionist can search enquiry and booking details with the help of his/ her mobile number and booking number independently.

**VII. Figures and Diagrams**

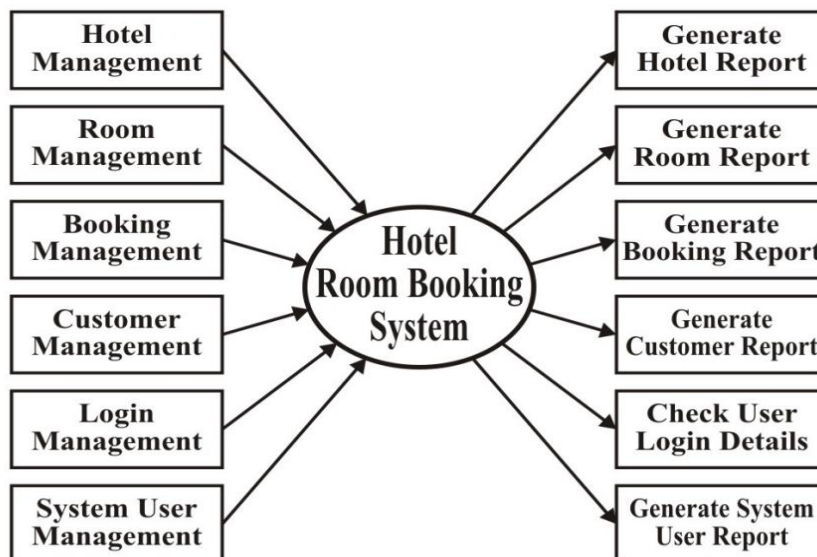
**i. Zero-Level DFD Diagram**



**Zero Level DFD - Hotel Room Booking System**

Fig no. 1: Zero Level DFD

**ii. First-Level DFD Diagram**



**First Level DFD - Hotel Room Booking System**

Fig no. 2: First Level DFD

iii. Second-Level DFD Diagram

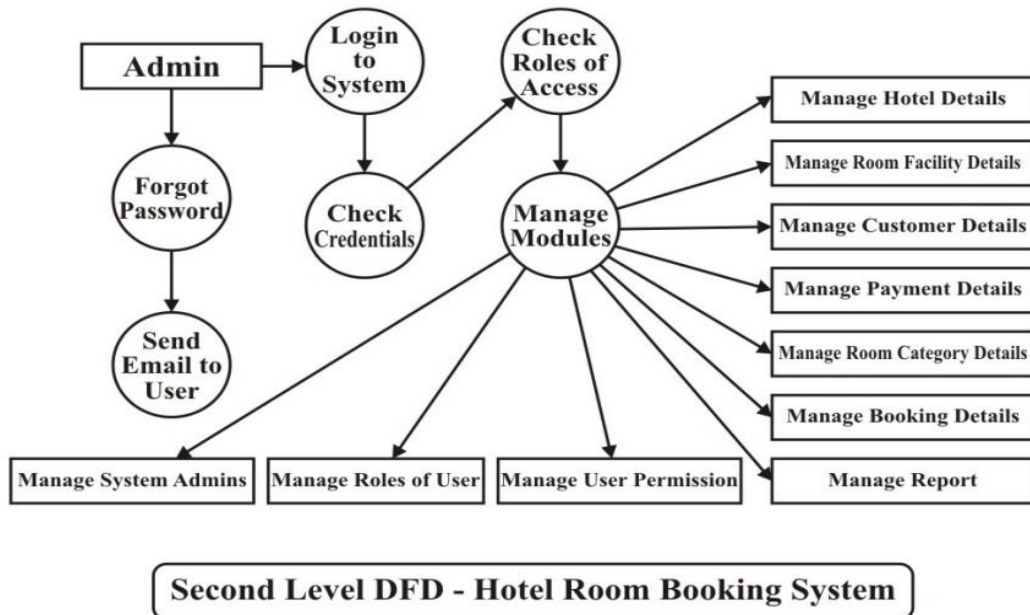


Fig no. 3: Second Level DFD

VIII. ER DIAGRAM

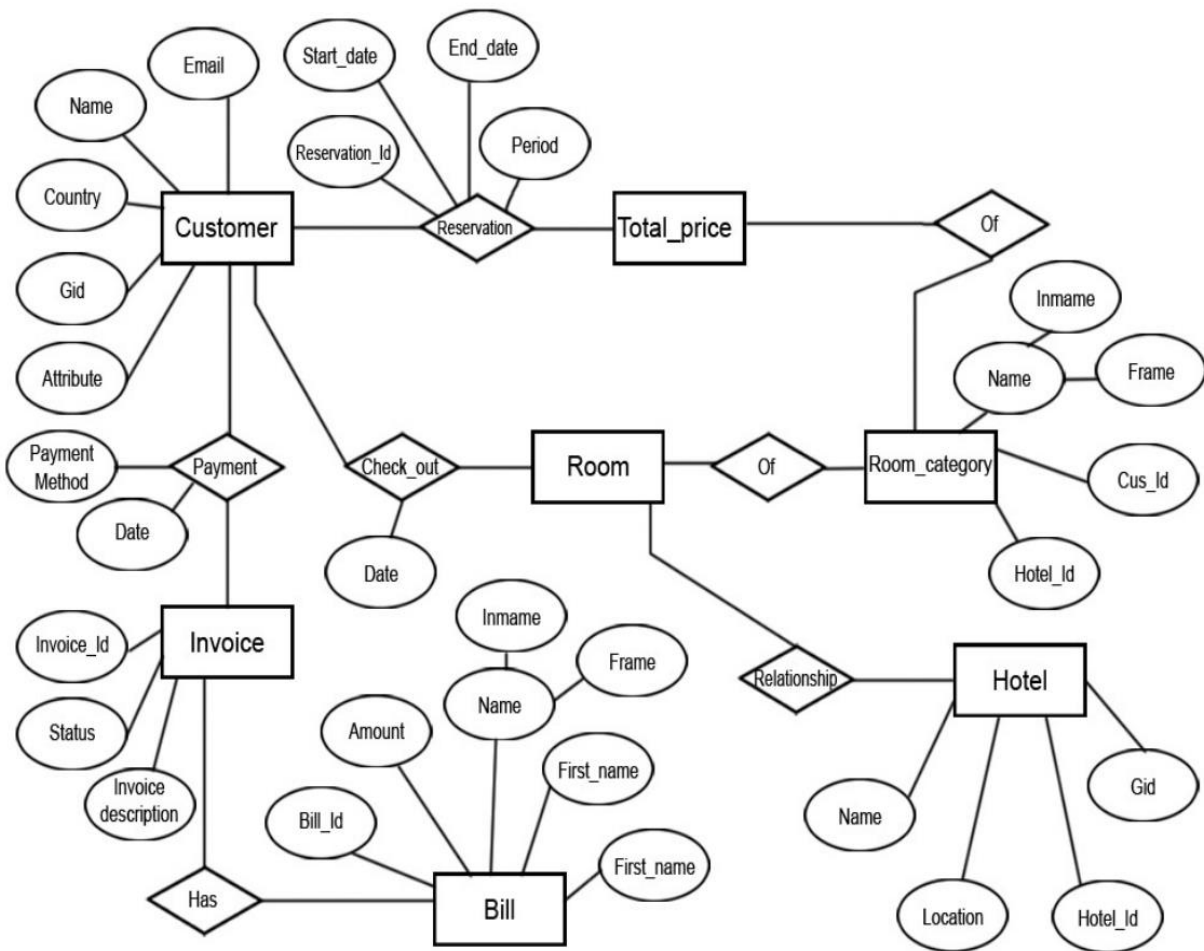


Fig no. 4: ER Diagram

IX. UML DIAGRAMS

i. Use Case Diagram

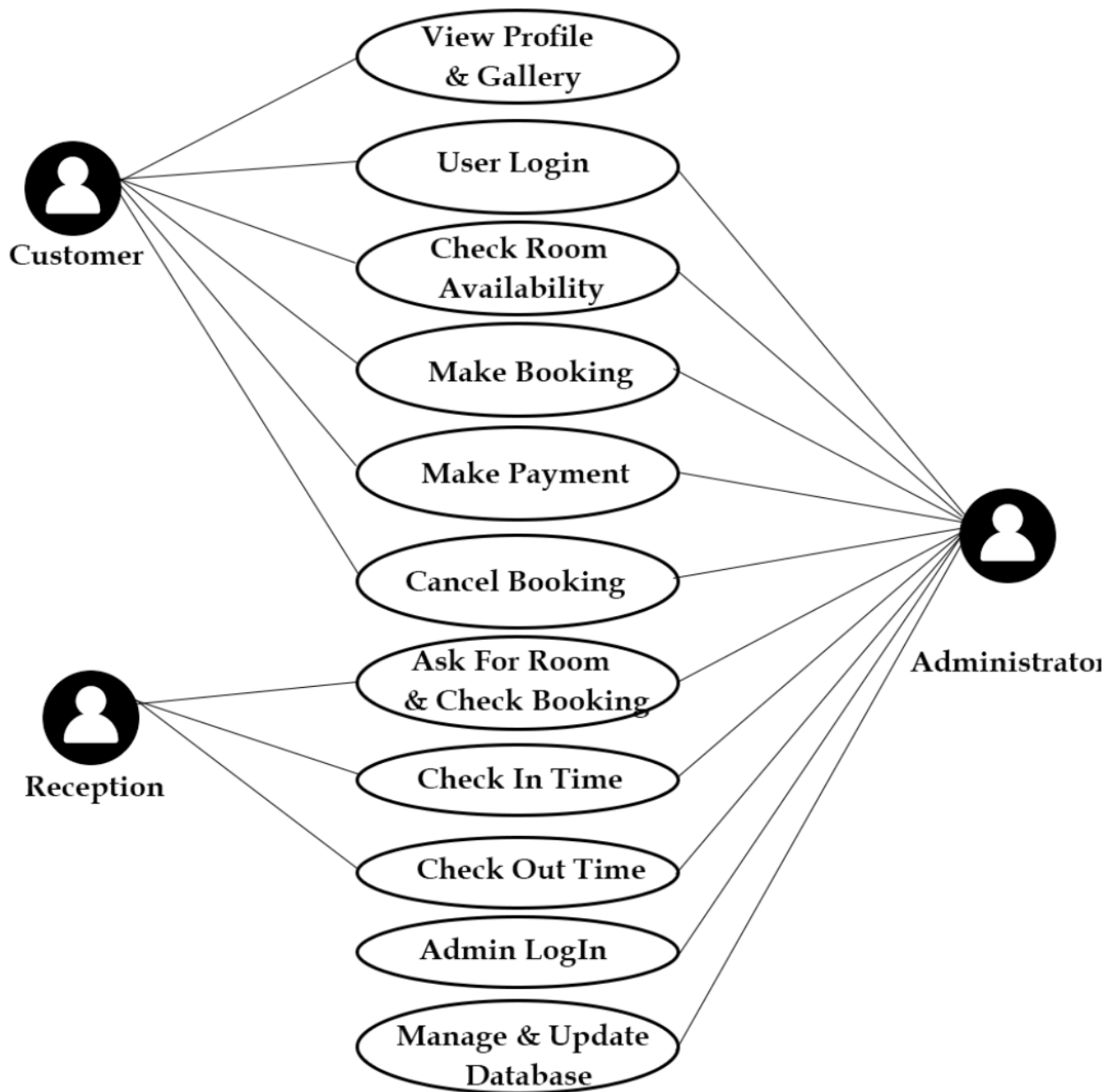


Fig no. 5: Use Case Diagram

### ii. Class Diagram

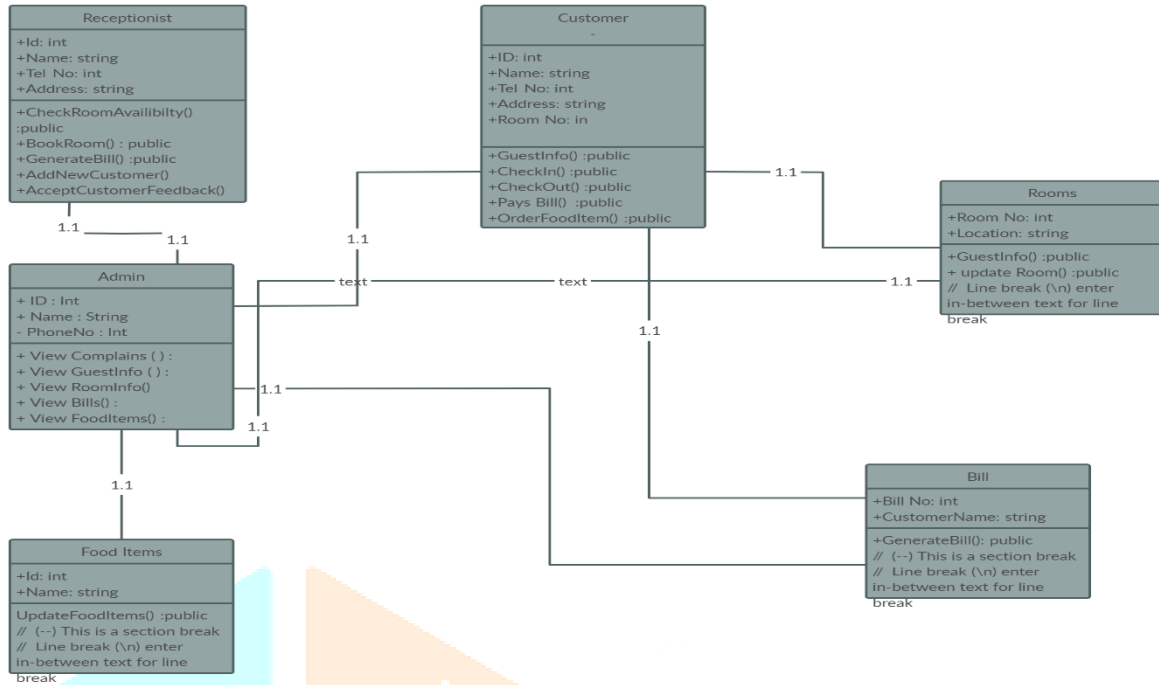


Fig no. 6: Class Diagram

### iii. Sequence Diagram

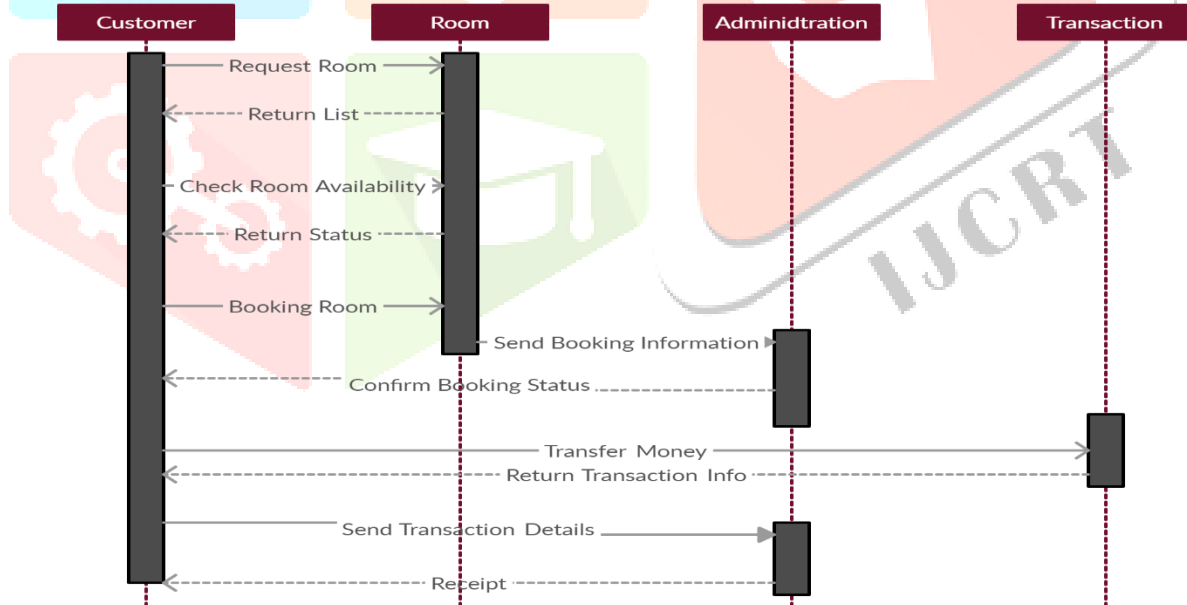


Fig no. 7: Sequence Diagram



### iv. Activity Diagram

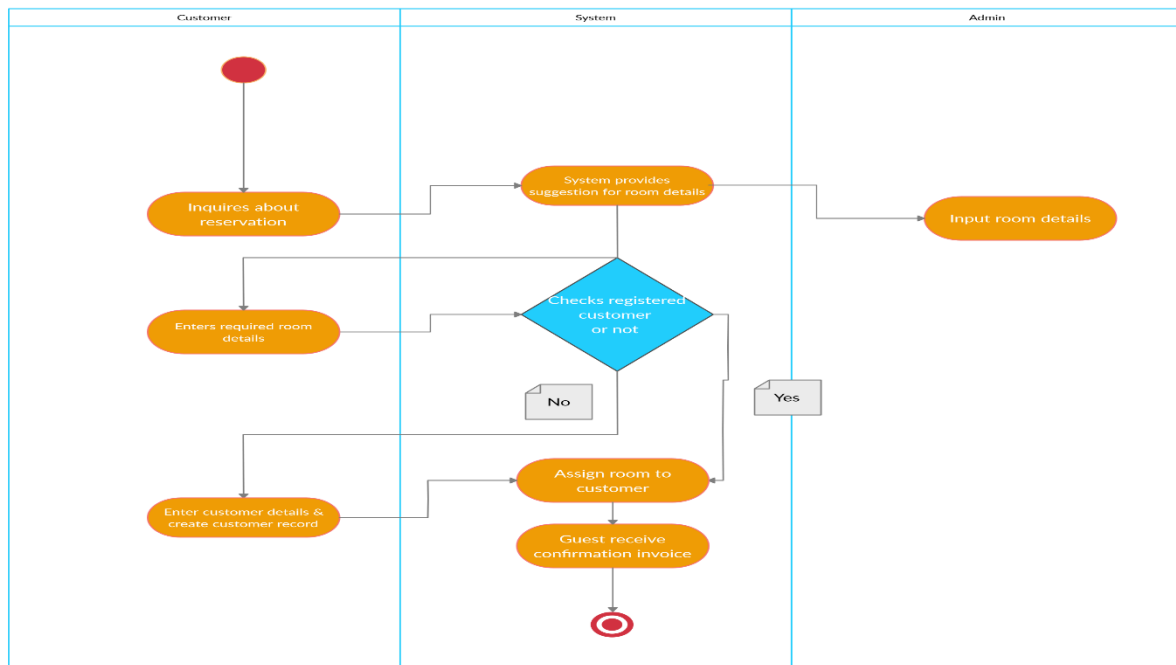


Fig no. 8: Activity Diagram

## X. SCREEN SHOTS

### i. Home Page

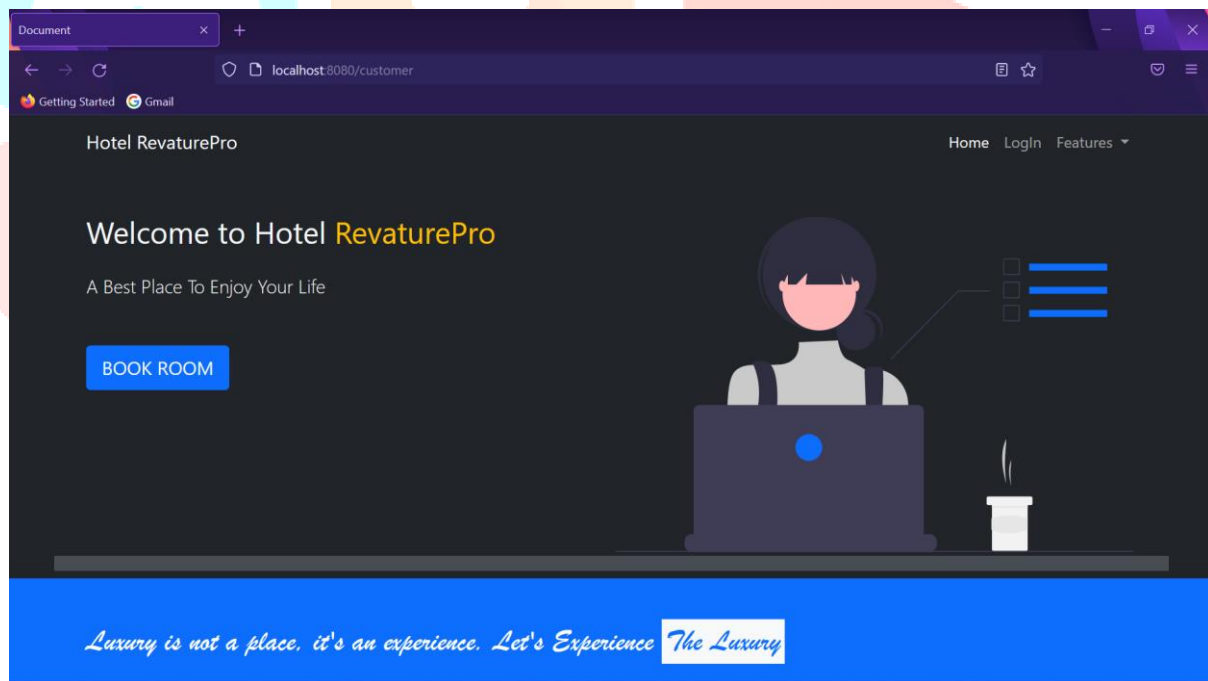


Fig no. 9: Home Page

### ii. Login Page

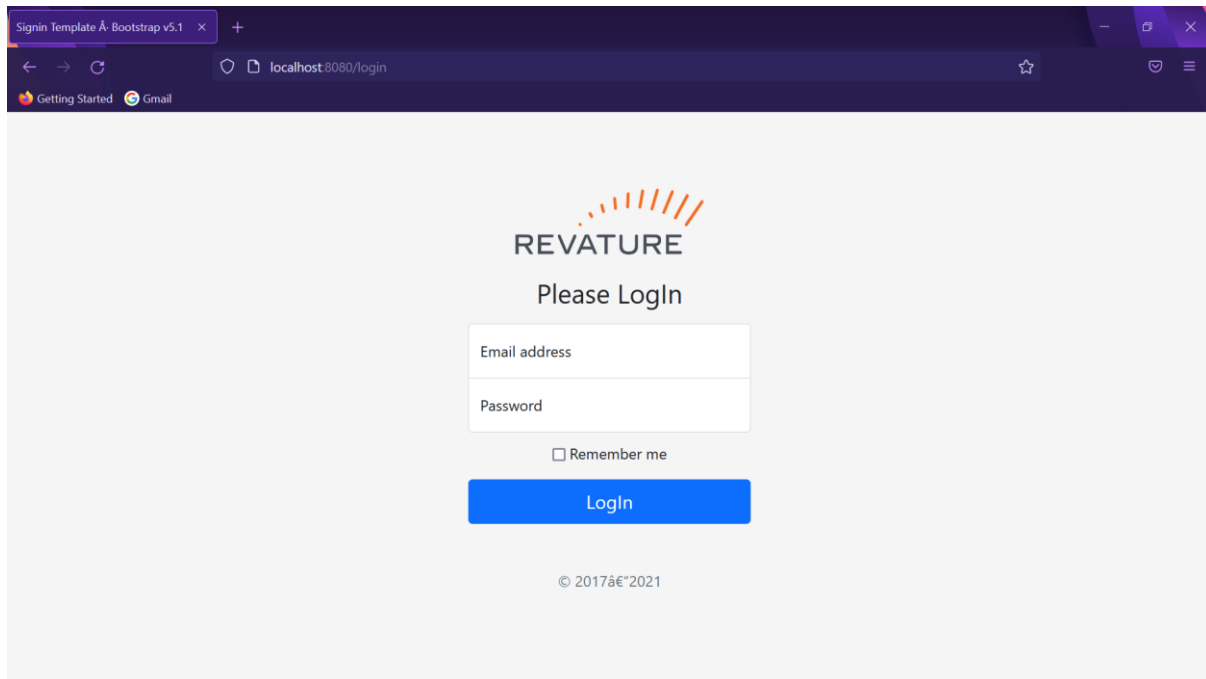


Fig no. 10: Login Page

### iii. User Registration

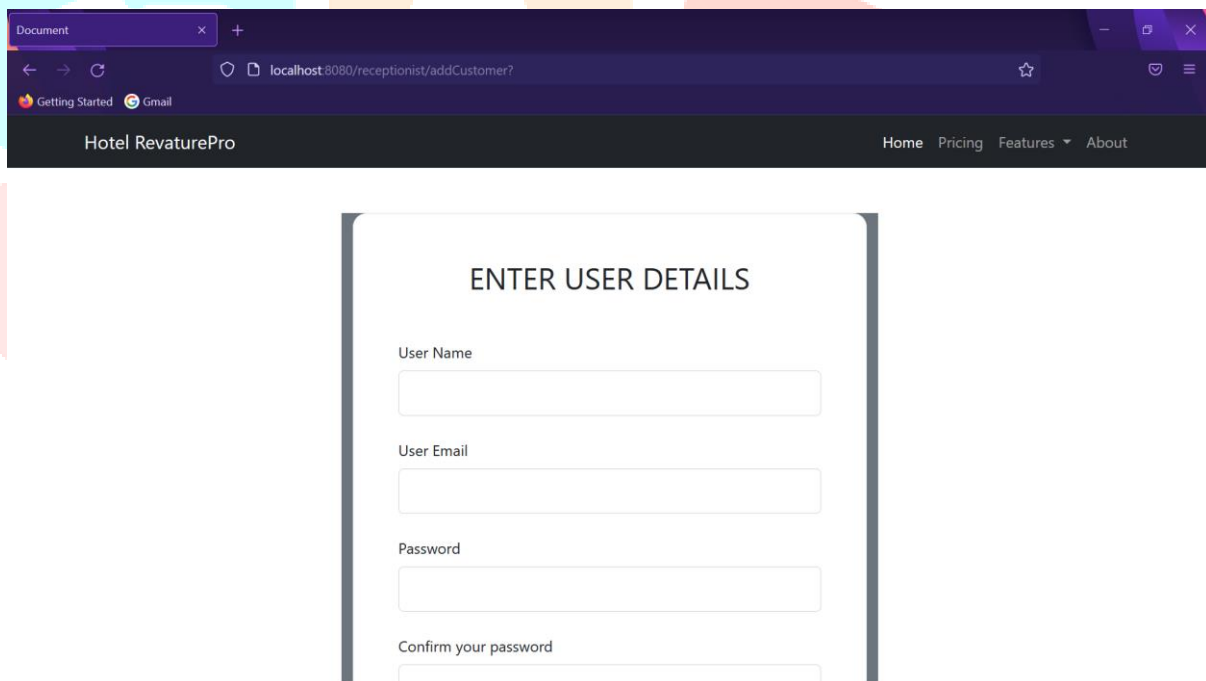


Fig no. 11: User Registration



#### iv. Admin Dashboard

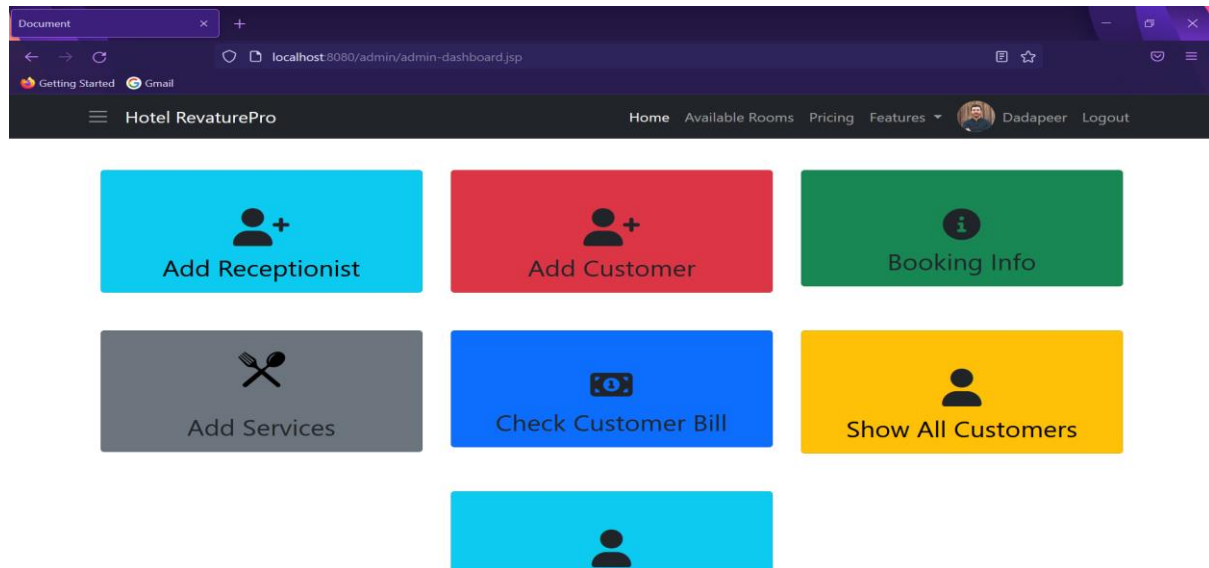


Fig no. 12: Admin Dashboard

#### v. Receptionist Dashboard

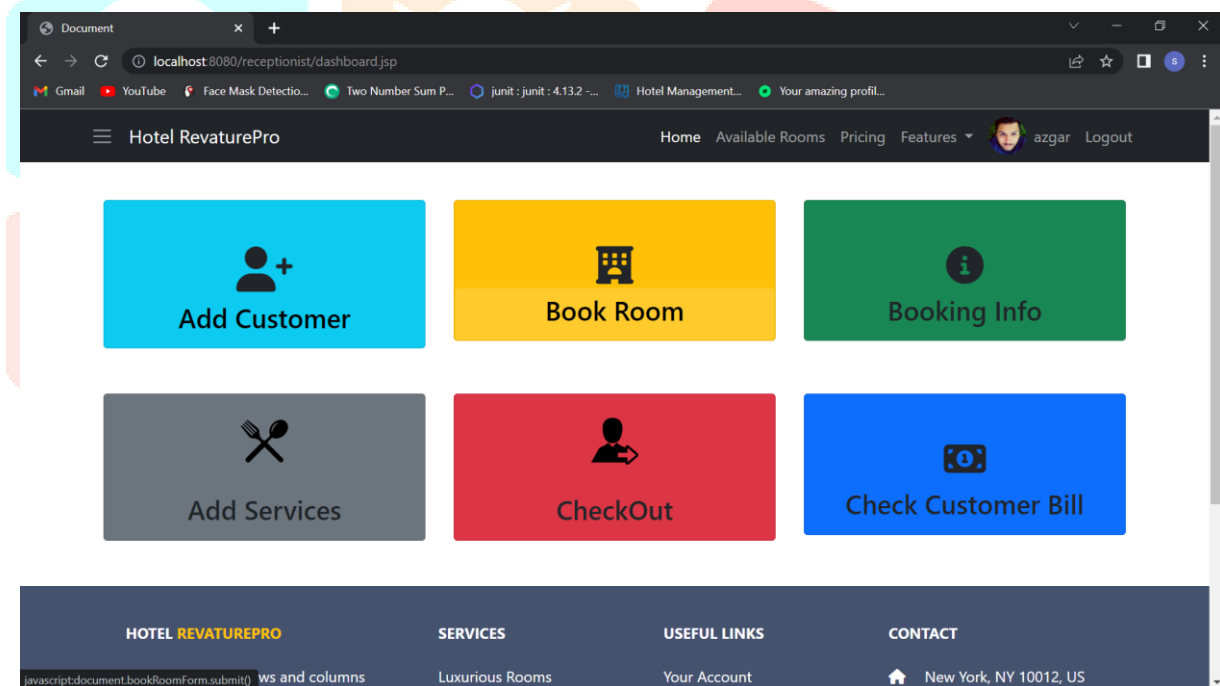


Fig no. 13: Receptionist Dashboard

### XI. CONCLUSION

The conclusion of this design is A Hotel management system is a motorized management system. This system keeps the reports of hardware means besides software of this association. The posed system will observe a trail of Workers, tenants, Accounts and genesis of report regarding the current status. This design has GUI grounded software that will help in storing, streamlining and reacquiring the information through colorful user-friendly menu-driven modules. The design "Hotel Management System" is aimed to develop to maintain the day-to-day state of admission/ holiday of resides, List of Workers, payment details etc. Main ideal of this design is to give result for hotel to manage utmost their work using motorized process. This software operation will help admin to handle guests' information, room allocation details, payment details, billing information, etc. Detailed explanation about modules and design are handed in design documentation. The existing system is a manually preserved system. All the Hotel records are to be maintained for the details of each guest, price details, Room Allocation, Attendance etc. All these details are entered and recaptured manually, because of this there are numerous disadvantages like Time Consuming, streamlining process, trip of data. For avoiding this we introduced or proposed a new system in proposed system the motorized interpretation of this system provides easy and fast access over the data.

## XII. FUTURE ENHANCEMENT

The possible improvements that can be made for the Online Hotel Booking System include: I can make the graphical user interface friendlier and more functional in the next development. The Online Hotel Booking System aims to provide a user-friendly interface and more functions for real world hotels. But there is still some room for improvements. For example, I can change the settings and functions of some options in the Web pages to make them more professional and artistic. I can also use more pop-up windows so that users can choose the value from them directly. This applies to "arrival date" and "departure date" options. In this way the users can avoid many possible mistakes caused by inappropriate input. - This online system only allows users to make a reservation that date is within one year and reserve up to four rooms per visit. These limitations can be removed in the future. In future improvements, the Online Hotel Booking System can offer more services such as car rental, flight ticket purchase, and the vacation package advising. These services have been offered already on some real world online booking systems. More hotels will add these services on their online systems. In this way, people can make all their requests at once no matter they are business trip arrangement, shopping, travel, or vacation.

## REFERENCES

- [1] <https://www.w3schools.com/>
- [2] <https://docs.oracle.com/en/java/>
- [3] <https://developer.mozilla.org/en-US/docs/Web/JavaScript>
- [4] <https://docs.spring.io/spring-framework/docs/current/reference/>
- [5] <https://dev.mysql.com/doc/refman/8.0/en/>
- [6] <https://www.baeldung.com/spring-tutorial>
- [7] <https://developer.mozilla.org/en-US/docs/Web/CSS>
- [8] <https://spring.io/projects/spring-boot>
- [9] <https://www.javadoc.io/doc/org.springframework/spring-webmvc/latest/index.html>
- [10] Paul DuBois and Michael Widenius. "MySQL", First Edition, New Riders Publishing, December 1999.
- [11] Jon Duckett ., Java Script Programming, Wiley, 2014.
- [12] Elliotte Rusty Harold ., JAVA Networking, O'Reilly Media, 2010.
- [13] Rene Enriquez ., JAVA Security, Packt Publishing, 2014.
- [14] Bryan Basham, Kathy Sierra ., Head First EJB ,O'Reilly Media; Second edition, 2008.
- [15] Shadab siddiqui., J2EE Professional, Premier Press; 1 edition, 2002.
- [16] Joel Murach, Michael Urban., JAVA servlets, Mike Murach, 2014.
- [17] Kogent Learning Solutions INC., HTML 5 Black Book, Dreamtech Press, 2011.
- [18] IEEE Std. 830-1998 IEEE Recommended Practice of Software Requirements Specifications.
- [20] Kevin Yank. "Build Your Own Database Driven Website Using PHP & MySQL", First Edition, SitePoint Pty Ltd, September 2001.