HOTEL MANAGEMENT SYSTEM

- Naveed
- Anukool
- Arunim
- Karthik

INTRODUCTION

In our project, we have tried our best to make the complicated process of hotel management as simple as possible using object-oriented methodology and a simple menu-oriented interface. We have tried to design the project in such a way that user may not have any difficulty in using this package and further expansion is possible without much effort. Even though we cannot claim that this work to be entirely exhaustive, the main purpose of this project is to perform each employee's activity in computerized way rather than manually which is time consuming.

We are confident that this software package can be readily used by non-programming personal avoiding human handled chance of error. This project is used by two types of users: -

i. Customers
ii. Administrator (management of the Hotel).

Administrator can maintain daily updates in the hotel records. Administrator must be an authorized user.

The main aim of the entire activity is to automate the process of day-to-day activities of hotel like room activities, admission of a new customer, assigning a room according to customer's demand, checkout of a customer and releasing the room and finally computing the bill etc.

The limited time and resources have restricted us to incorporate, in this project, only a few functionalities in our Hotel Management System, but utmost care has been taken to make the system efficient and user friendly.

"Hotel Management System" has been designed to computerize the following functions that are performed by the system:

- Add database of rooms in the hotel
- Guest Summary
- Search Room (search and view details of a particular room)
- Search Customer (search and view details and information of a particular customer)
- Admission of new customer
- Room assigning related to customer's need
- Generating bill for a customer
- Check-in customer
- Check-out customer
- Check availability of rooms

OBJECTIVE

- A computer-based management system is designed to handle all the primary information required.
- Separate database is maintained to handle all the details required for the correct statement calculation and generation.
- This project intends to introduce more user easiness in the various activities such as record updating, maintenance, and searching.
- The searching of record has been made quite simple as all the details of the customer can be obtained by simply keying in the identification of that customer.
- Similarly, record maintenance and updating can also be accomplished by using the identification of the customer with all the details being automatically generated. These details are also being promptly automatically updated in the master file thus keeping the record absolutely up to date.
- The entire information has maintained in the database or Files and whoever wants to retrieve can't retrieve, only authorized user can retrieve the necessary information which can be easily accessible from the file.

REQUIREMENTS

- ✓ Menu-driven user interface to allow the users to navigate through the different functionalities.

- ✓ Login page to operate as an administrator / customer followed by login details (name, phone number, address, and password in case of administrator).

- ✓ Customer-specific input requirements:

    - Room requirements of the customer (AC/non-AC, room size, comfort type).
    - Search for specific room availability.
    - Customer check-in and check-out.

- ✓ Admin-specific input requirements:

    - Add rooms to the database along with room details (AC/non-AC, room size, comfort type).
    - Check the occupancy history of the hotel.

SCREENSHOTS OF OUTPUT

```
Menu:
1.Check Availability of rooms.
2.Check In
3.Checkout.
4.Go back to Main Menu.
Enter your choice:2
The list of all available rooms:
| Room No.      |       AC/Non-AC       |       Type            |       Stype           |       Rent            |       Availability    |
| 101.          |       A               |       N               |       B               |       1200            |       Available.      |
Enter The room Number
101
Do you wish to continue? Press(Y/y)Y
Enter customer name: Saurabh
Enter Customer address: Lucknow
Enter mobile number: 8004346495
Enter number of days of stay: 2
Your total bill will approx be Rs.2400.
Please Pay your Bill: 2400: 2400
Thank you. Booking confirmed.
------------------------------------------------------------
Booking Id: 1
Name: Saurabh
Room no.: 101
Date: WELCOME TO KANA GROUP OF HOTELS

Menu:
1.Check Availability of rooms.
2.Check In
3.Checkout.
4.Go back to Main Menu.
Enter your choice:3
Enter room number= 101
CHECKING OUT.
1               | Saurabh                     | 8004346495                  | Lucknow                     | 101                 |             -             |

Thank you! Visit Again :)
WELCOME TO KANA GROUP OF HOTELS

Menu:
1.Check Availability of rooms.
2.Check In
3.Checkout.
4.Go back to Main Menu.
Enter your choice:
```

```
uest Summary
earch Room
earch Customar

er number of rooms: 1
M 1

er room number : 101
e AC/Non-AC (A/N) : A
e Comfort Suite or Normal (S/N) : N
e Size (B/S) : B
ly Rent : 1200

m Added Successfully!
tabase updated. Going back to main menu.
LCOME TO KANA GROUP OF HOTELS

nu:
Check Availability of rooms.
Check In
Checkout.
Go back to Main Menu.
ter your choice:1
e list of all available rooms:
Room No.      |       AC/Non-AC       |       Type            |       Stype           |       Rent            |       Availability    |
101.          |       A               |       N               |       B               |       1200            |       Available.      |
LCOME TO KANA GROUP OF HOTELS

nu:
Check Availability of rooms.
Check In
Checkout.
Go back to Main Menu.
ter your choice:2
e list of all available rooms:
Room No.      |       AC/Non-AC       |       Type            |       Stype           |       Rent            |       Availability    |
101.          |       A               |       N               |       B               |       1200            |       Available.      |
ter The room Number
1
you wish to continue? Press(Y/y)Y
ter customer name: Saurabh
ter Customer address: Lucknow
ter mobile number: 8004346495
ter number of days of stay: 2
ur total bill will approx be Rs.2400.
ease Pay your Bill: 2400: 2400
ank you. Booking confirmed.
----------------------------------------------------------------
oking Id: 1
me: Saurabh
```

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              WELCOME TO KANA GROUP OF HOTELS
                                                                        MENU:
                                                                        1.OPERATE AS ADMIN
                                                                        2.OPERATE AS CUSTOMER
                                                                        3.EXIT
                                                                        Enter your choice:1

Enter Password
123456
1.Add database of rooms in the hotel:
2.Guest Summary
3.Search Room
4.Search Customar
1
Enter number of rooms: 1
ROOM 1

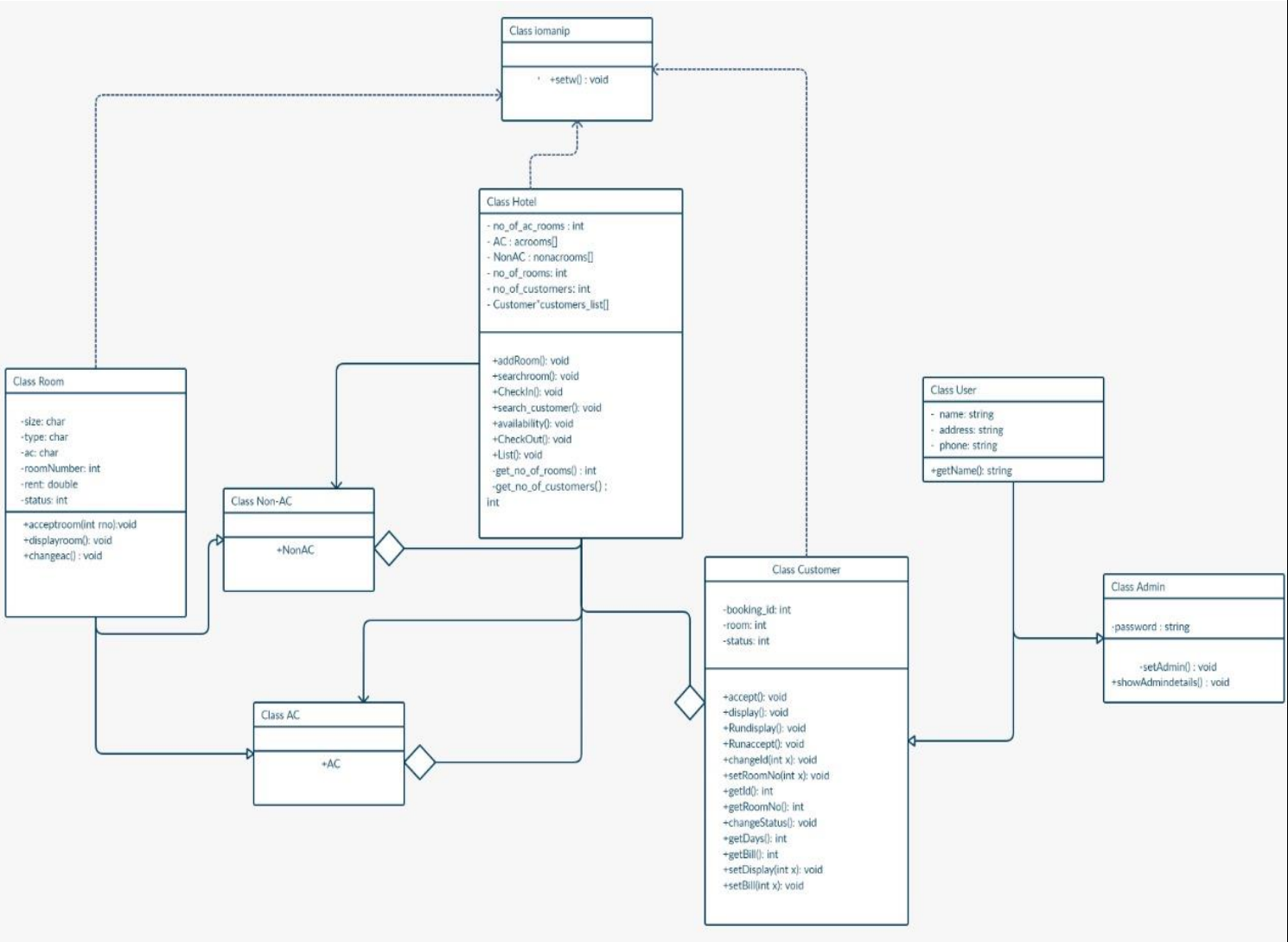
Enter room number : 101
Type AC/Non-AC (A/N) : A
Type Comfort Suite or Normal (S/N) : N
Type Size (B/S) : B
Daily Rent : 1200

Room Added Successfully!
Database updated. Going back to main menu.
WELCOME TO KANA GROUP OF HOTELS

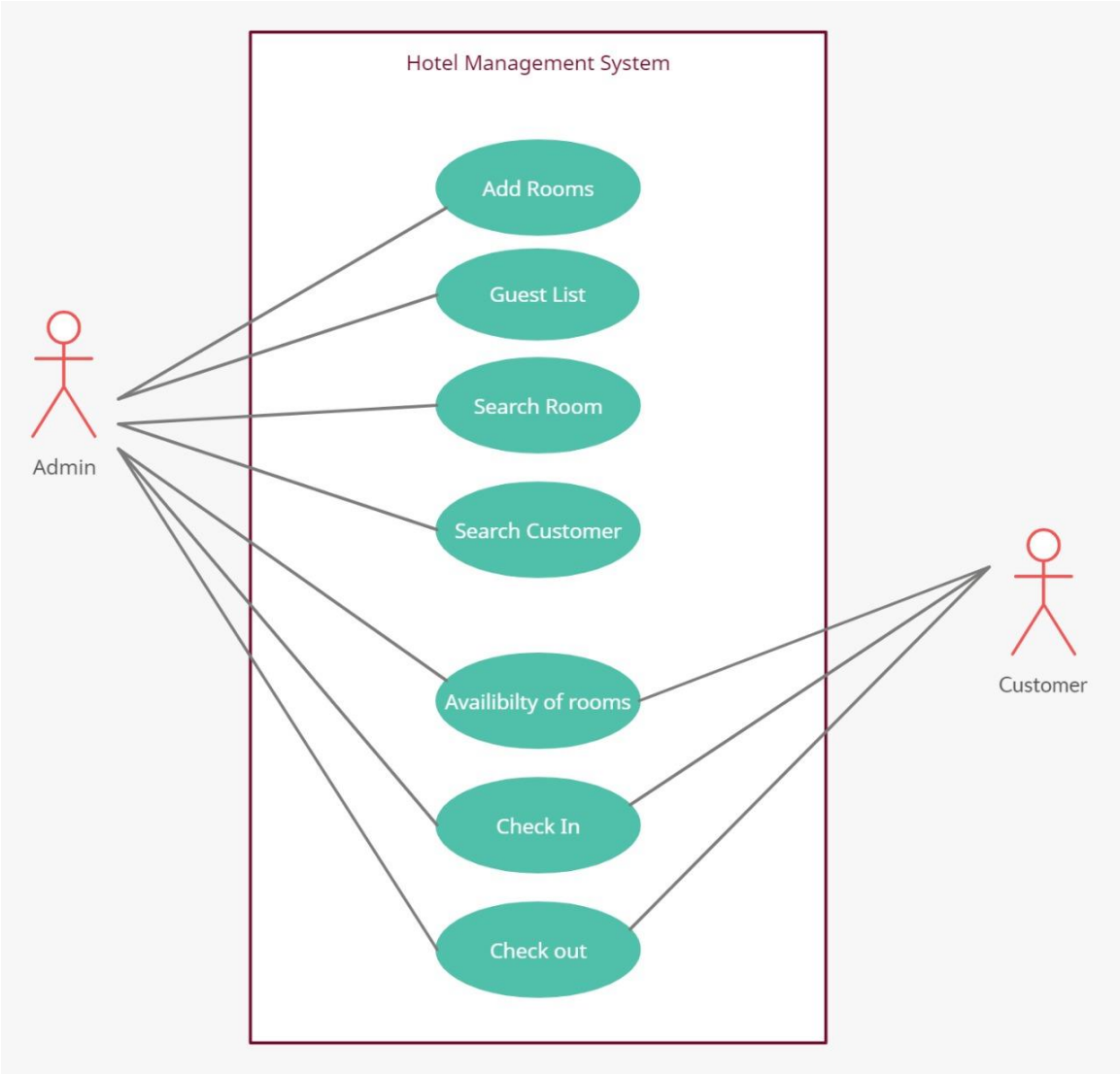
Menu:
1.Check Availability of rooms.
2.Check In
3.Checkout.
4.Go back to Main Menu.
Enter your choice:1
The list of all available rooms:
| Room No.      |       AC/Non-AC       |       Type            |       Stype           |       Rent            |       Availability    |
| 101.          |       A               |       N               |       B               |       1200            |       Available.      |
WELCOME TO KANA GROUP OF HOTELS

Menu:
1.Check Availability of rooms.
2.Check In
3.Checkout.
4.Go back to Main Menu.
Enter your choice:
```

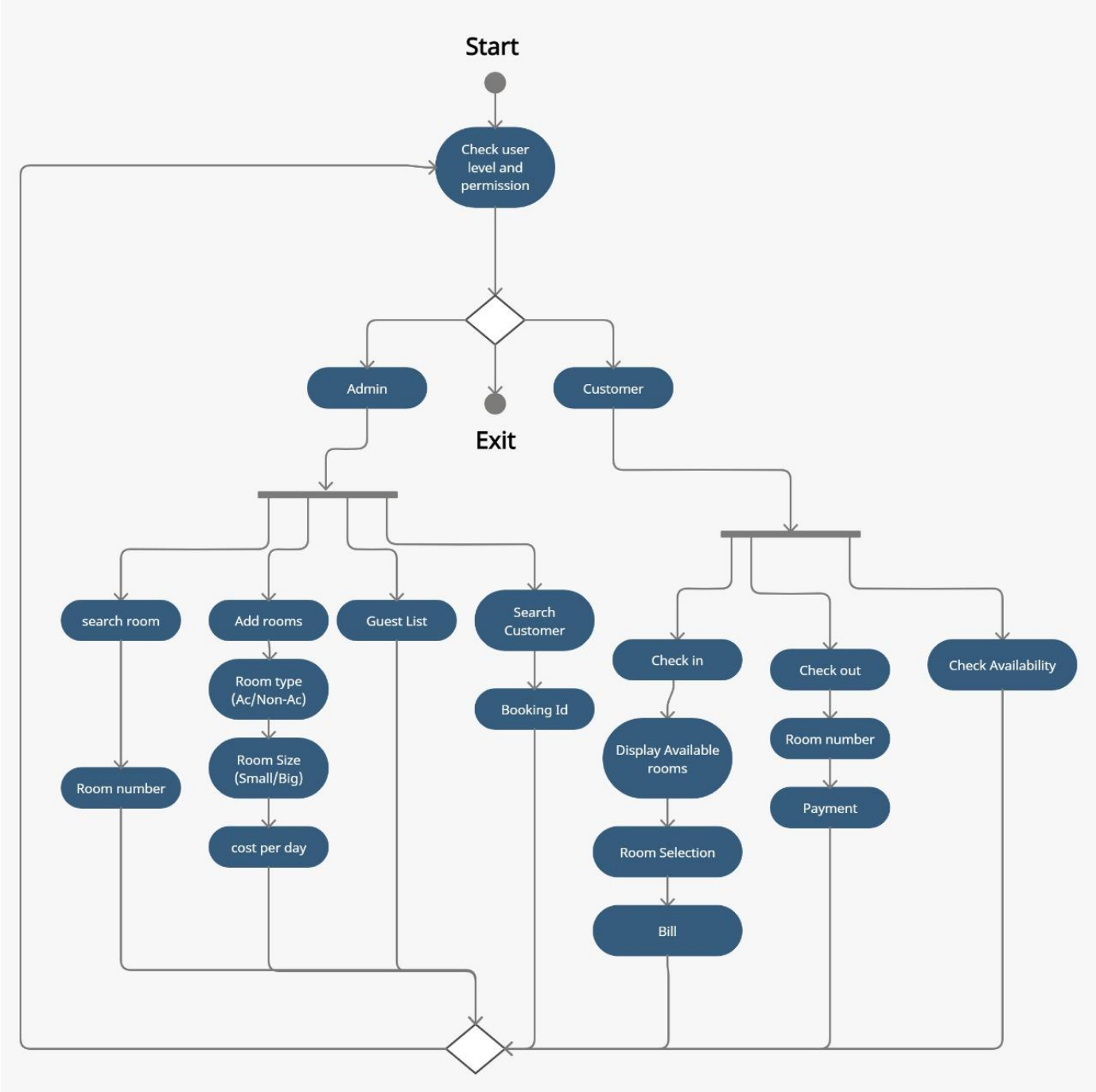
Class Diagram



USE-CASE DIAGRAM



ACTIVITY DIAGRAM



CONCLUSION

The computerized Hotel Management System we have built was designed while keeping in mind the general problems that would have been faced by the customers/hoteliers. The design and implementation are solely done on the fundamental principles of Object-Oriented Methodology, where each entity or class corresponds to a real-life object.

For example, we have three major classes which User, Room and Hotel. The User class is further divided into two subclasses, Admin and Customer, which respectively contain details on administrators and customers as users of the software. The functionality and uses of all the other classes in our project revolve around the forementioned major three classes.