

Hotel Room Booking System

Group Members
Manasa
Sindhuja
Sai Sumith
Nitesh
Sravan
Meenakshi



INTRODUCTION

Our project deals with the "Hotel Room Management system", as the name defines it provides an opportunity for the Sellers to provide a platform for customers to check the availability of a room and book a room. Customers can also order food and check out the prices of respective.

Admin gets an opportunity to store the details of a customer for further requirements and also cancel any room allocated.

THE MOTIVE OF THE PROJECT

As the situation of the world is getting far better people are likely to travel from one place to another. For the convenience of the user, we have designed our project in such a way that they can book a room easily and conveniently in their prior locations.

We have divided our interface into two parts
In which 1st one deals with customers and
2nd one deals with the admin.

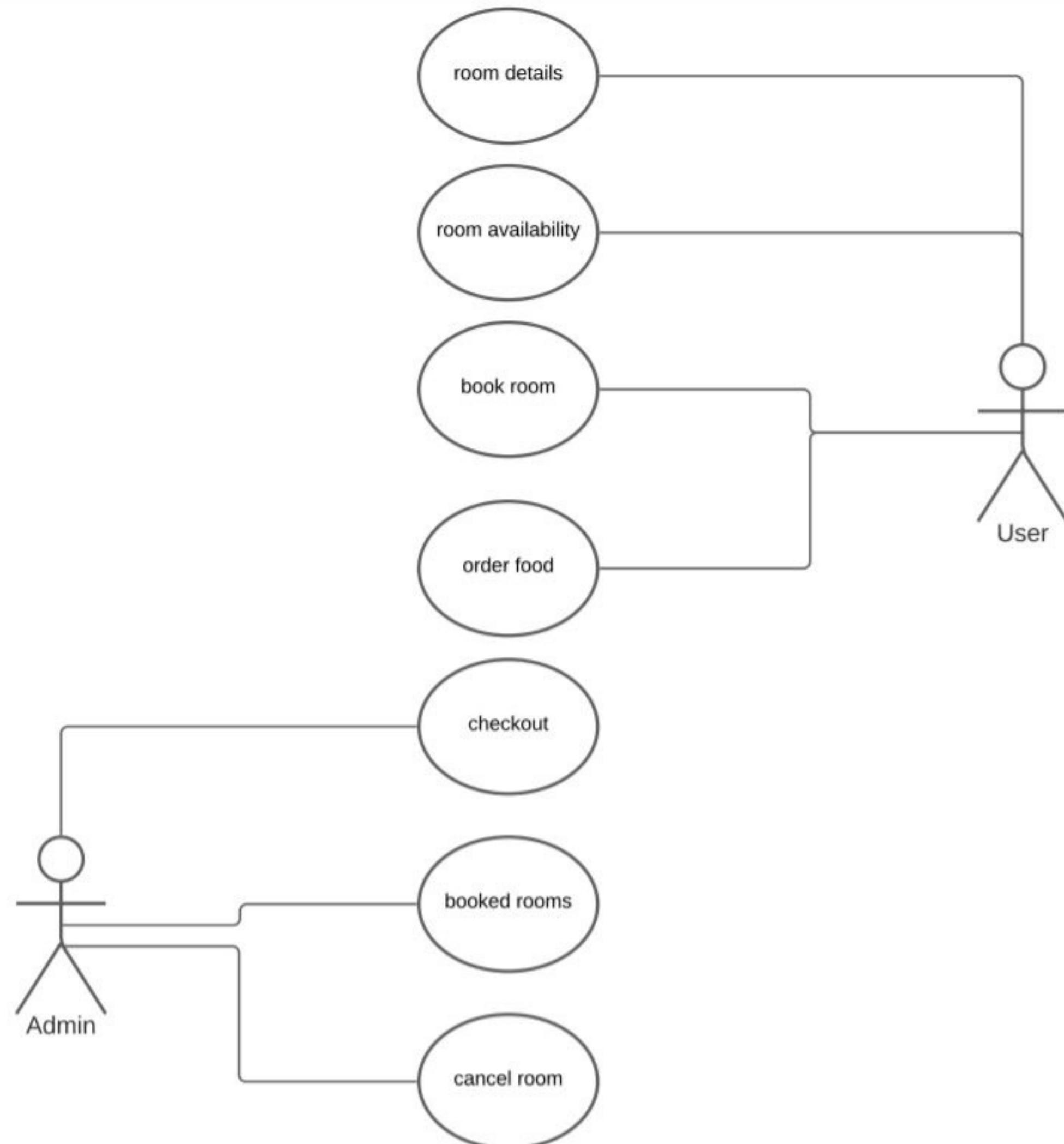
- **Operations that customers can perform:**

1. view room details/features.
2. view available rooms.
3. book room.
4. Order food.

- **Operations that admin can perform:**

we have created a password to make sure
that the following operations can only
be done by admins

1. view booked rooms.
2. cancel the booked room
3. checkout



Our project includes a total of 8 files

1)Hotel_Management_System: This is the main file of our project which displays all the features of our project and calls the methods which help to run the code and make a successful booking.

2)Hotel: This file includes all methods of our project.

- Custdetail(): This method takes customer(s) details
- Bookroom(): This method helps in the booking of a room.
- Features(): This method consists of room features such as the room consisting of AC or not and the charge of room per day.
- Occupied(): This method shows all the rooms that have been booked by customers to the admin.
- Availability(): This shows all the available rooms for the customer.
- Bill(): This method displays the total bill while checking out.
- order(): This method helps customers to order food.
- Deallocate(): This method helps the admin to check out the room.
- Cancel(): This method helps the admin to cancel the room of the customer



3)**Holder**: This file consists of a declaration of the array and allocates memory to the array regarding rooms

4)**Food**: These files consist of may get and set methods that help to set the quantity and price.

5)**NotAvailable**: This is a small file that just prints out as not available when we want to book the room that has been already booked.

6)**write**: These files help to store data that deals with file handling.

7)**DoubleRoom**: This file includes get and set methods that deal with details of customers booking double room luxury and double room deluxe.

8)**SingleRoom**: This file includes get and set methods that deal with details of customers booking single room luxury and single room deluxe.



Concepts we have used in the code:

Inheritance:

- SingleRoom is inherited in DoubleRoom
- Food,holder, SingleRoom ,DoubleRoom classes implements serializable interface.
- Write class implements Runnable Interface.

Encapsulation:

As a part of encapsulation we have used set and get methods on

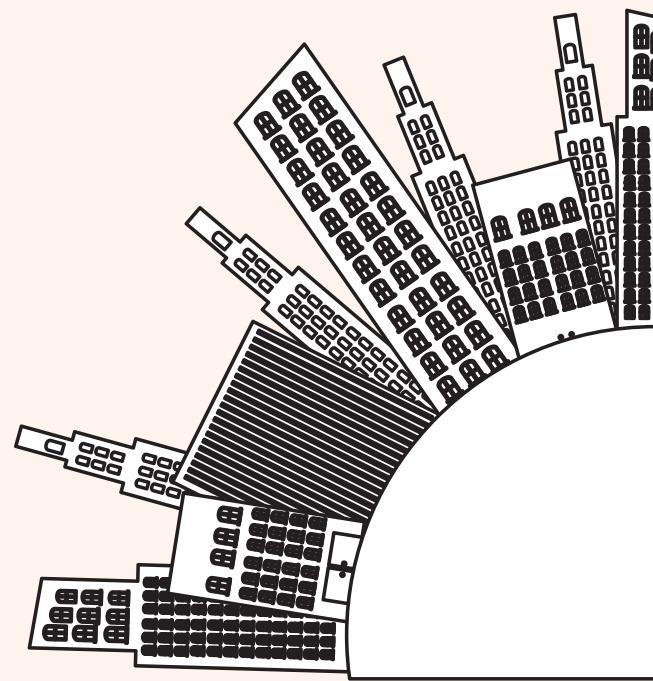
- SingleRoom.java
- DoubleRoom.java
- Food.java

Threading:

- We have used this concept in Hotel_Management_System.java file.

File Handling:

- We used this concept in write.java file,Which stores data in backup.txt file.



Future Scope

In the future, we are likely to add the Online Payment option where the user can do their payment online and we will expand more rooms with more convenience for the customers

Conclusion

While working on this project we have gained much command on Java.

Keeping subject apart, In this journey we have realised the importance of team work and learnt a lot of new things which are going to be helpful in our future



THANK YOU



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