

# Hotel Management System User Manual

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## **1. Project Description & Workflow:**

The Hotel Management System is a role-based application designed to streamline hotel operations. It comprises 3 roles:

### **Administrator:**

Perform CRUD operations on hotel rooms.

View all reservations made by customers.

Receive real-time notifications (using SignalR) when a booking is made.

### **Customer:**

Book hotel rooms.

Cancel reservations.

Search available rooms.

View their own reservations.

### **Manager:**

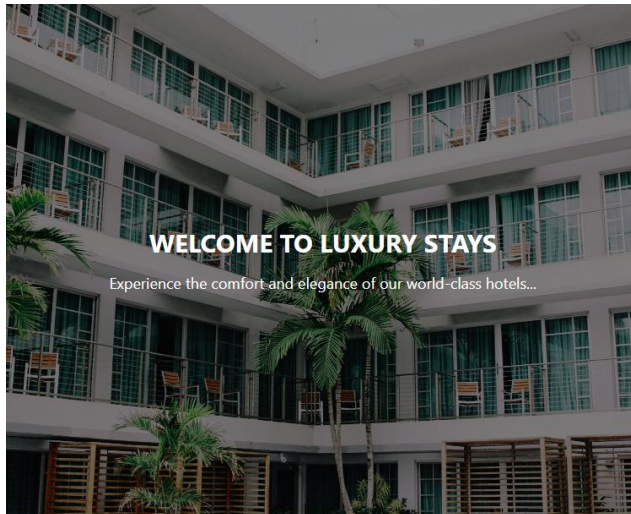
View reservations.

Handle administrative tasks (Add, Remove, Update Rooms).

The application utilizes ASP.NET Core MVC with Identity, SignalR, EF Core, LINQ, and Dependency Injection. Custom Identity fields like FullName and City were added to MyAppUser. SignalR is implemented to notify the admin in real time when a booking is made.

## **2. App Screenshots**

- First of all when we start the application the following page appears from which we can either register or login the application.



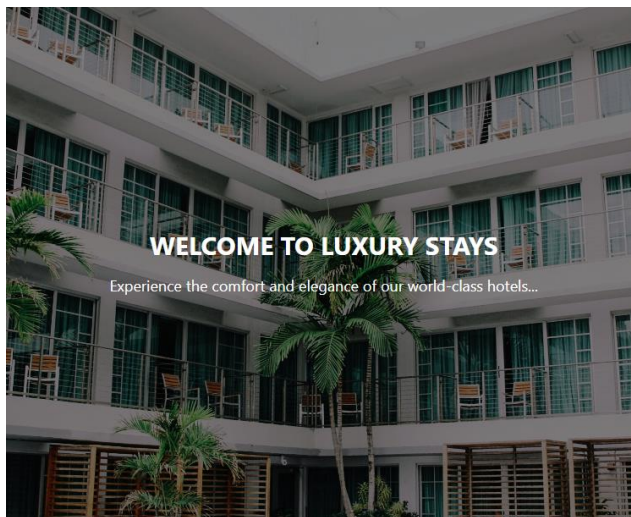
## HOTEL MANAGEMENT SYSTEM

Who do you want to proceed as?

Register

Login

- Following is the register page:



### SignUp Portal

hamzazahoor1067@gmail.com

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Confirm password

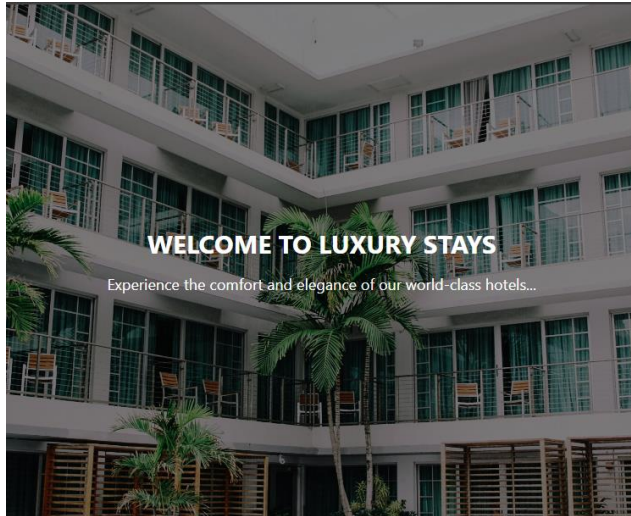
Full Name

City

Select Role

Sign Up

- Following is the Login Page:



## Login Portal

hamzazahoor1067@gmail.com

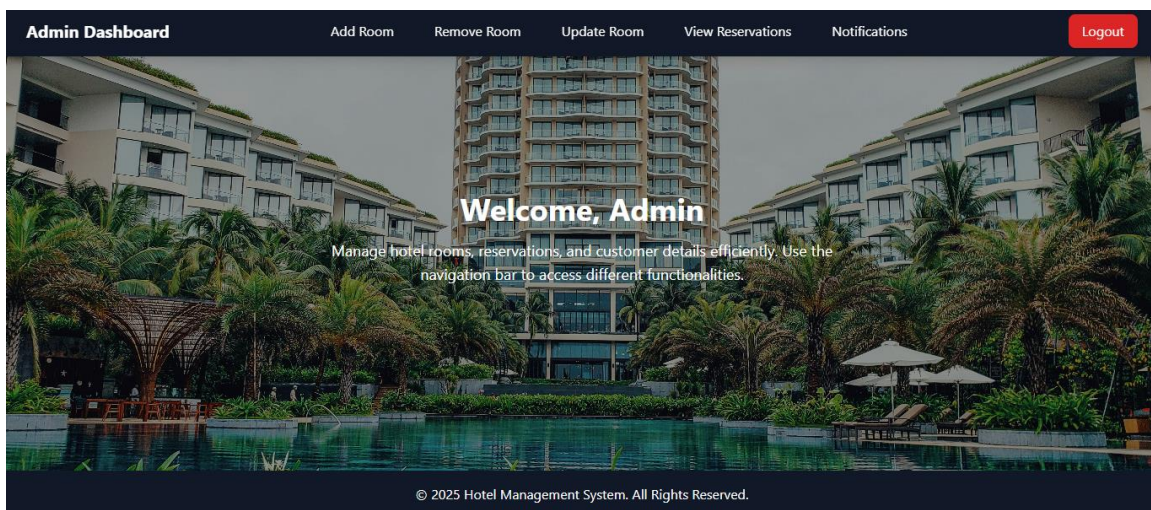
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☐ Remember Me

LOGIN

[Register as a new user](#)

- After logging in as admin admin dashboard appears having following options in navbar.



- There are forms of each page: Add Room, Remove Room, Update Room which are as follows:



Admin Dashboard

Add Room

Remove Room

Update Room

View Reservations

Notifications

Logout

Add Room Details

Select Room Type:

Single

Enter Room Price:

Is the Room Available?

☐

Add Room Details

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Admin Dashboard

Add Room

Remove Room

Update Room

View Reservations

Notifications

Logout

Remove Room Details

Enter Room ID:

Remove Room

© 2025 Hotel Management System. All Rights Reserved.

Admin Dashboard

Add Room

Remove Room

Update Room

View Reservations

Notifications

Logout

Update Room Details

Enter Room ID:

Select Room Type:

Single

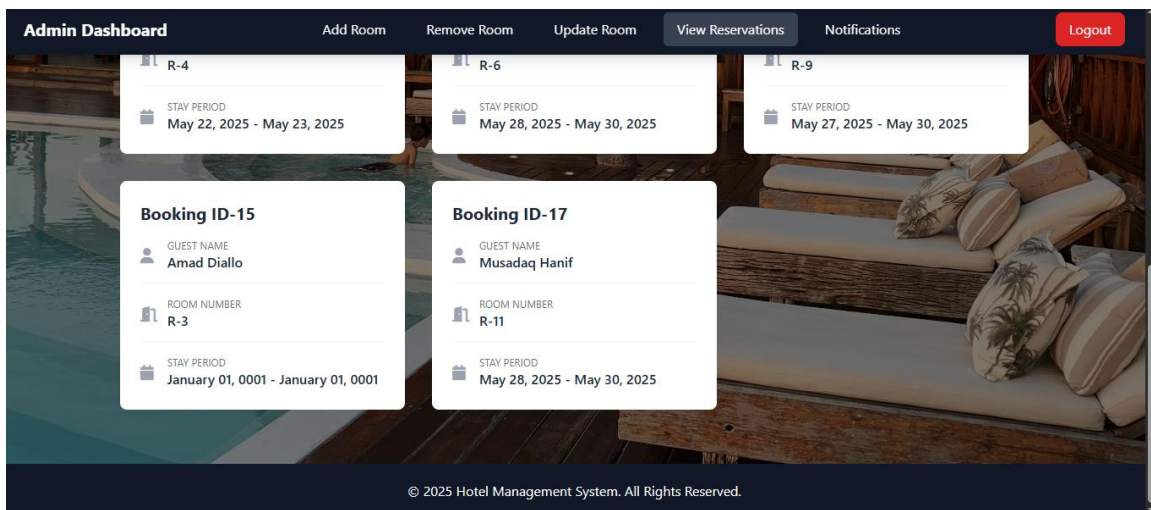
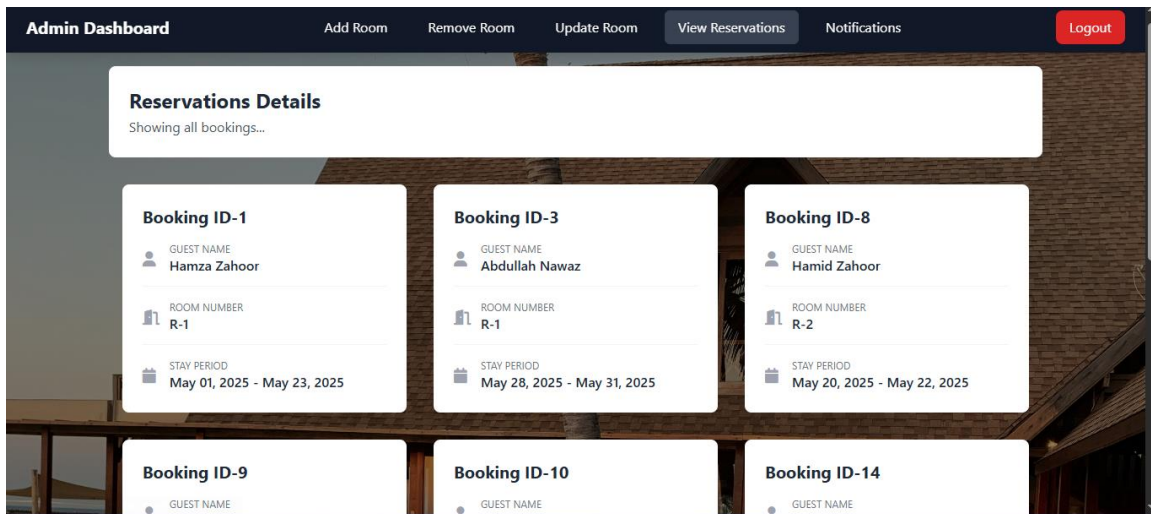
Enter Room Price:

Is the Room Available?

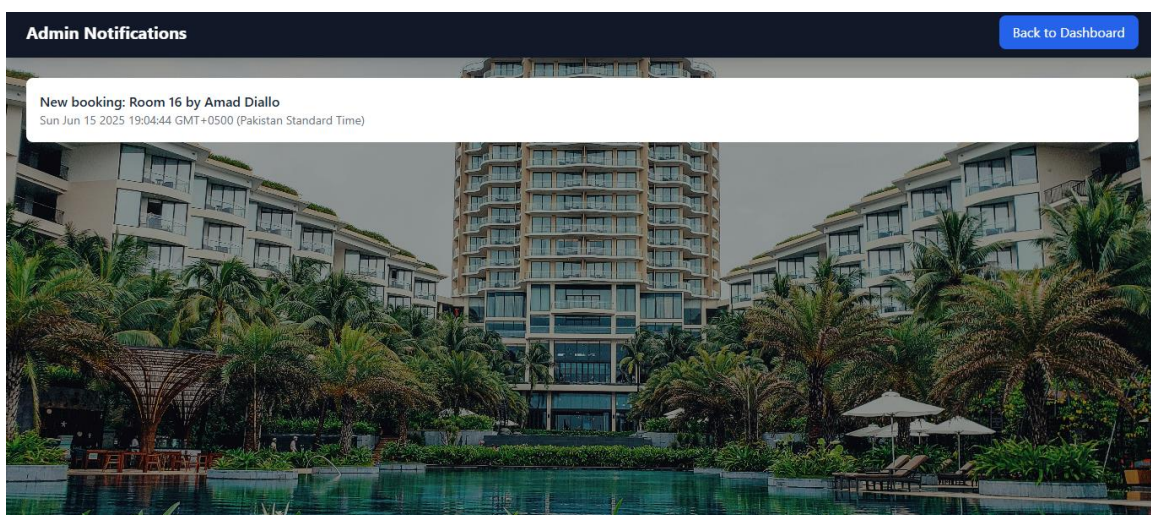
☐

Update Room Details

- Admin can view All Reservation Details:

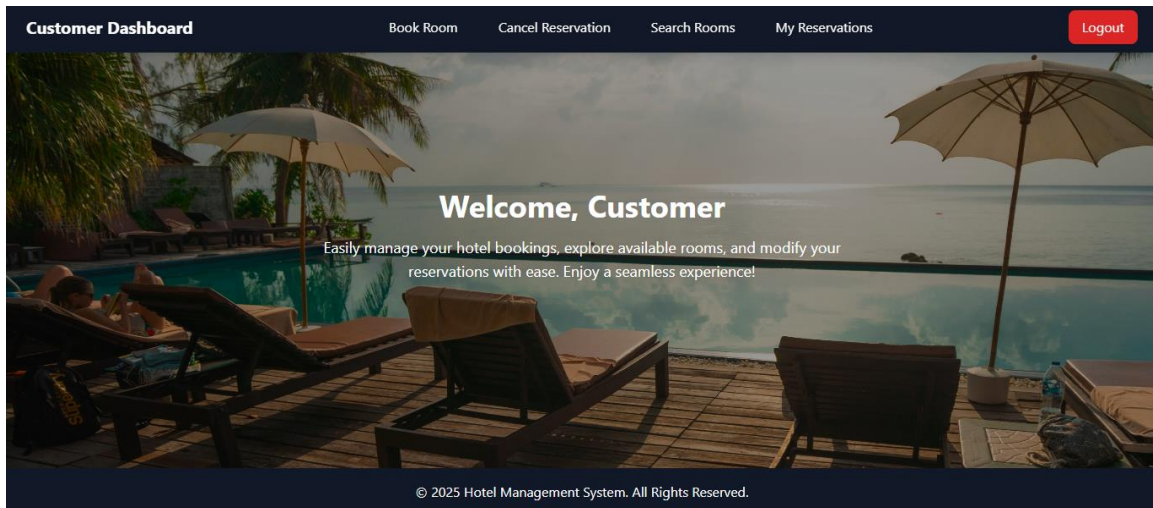


- Now there is a notification section. Whenever a student books room, a notification appears in real-time.

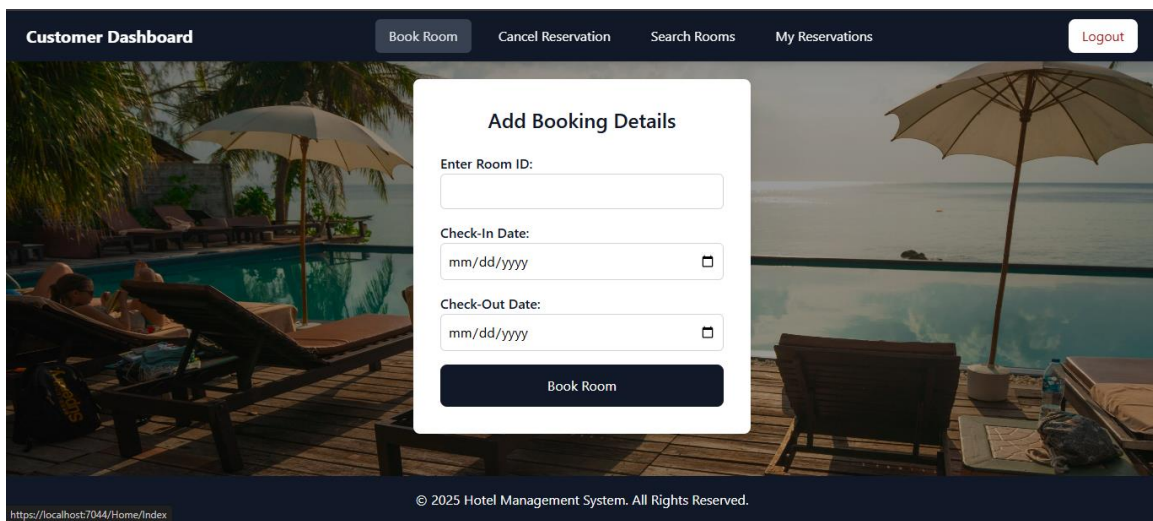


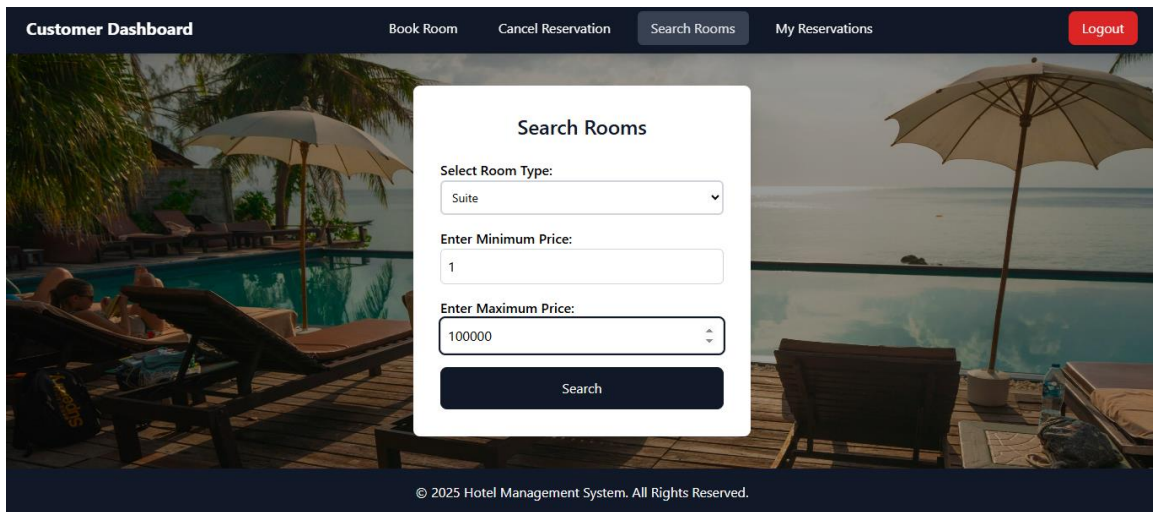
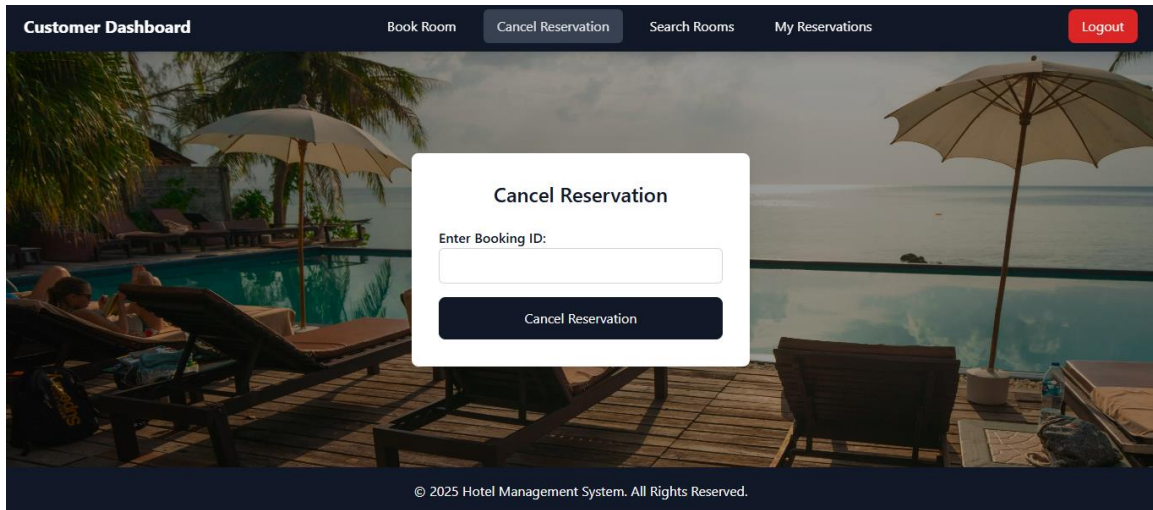


- Now moving to customer dashboard, we have following options:

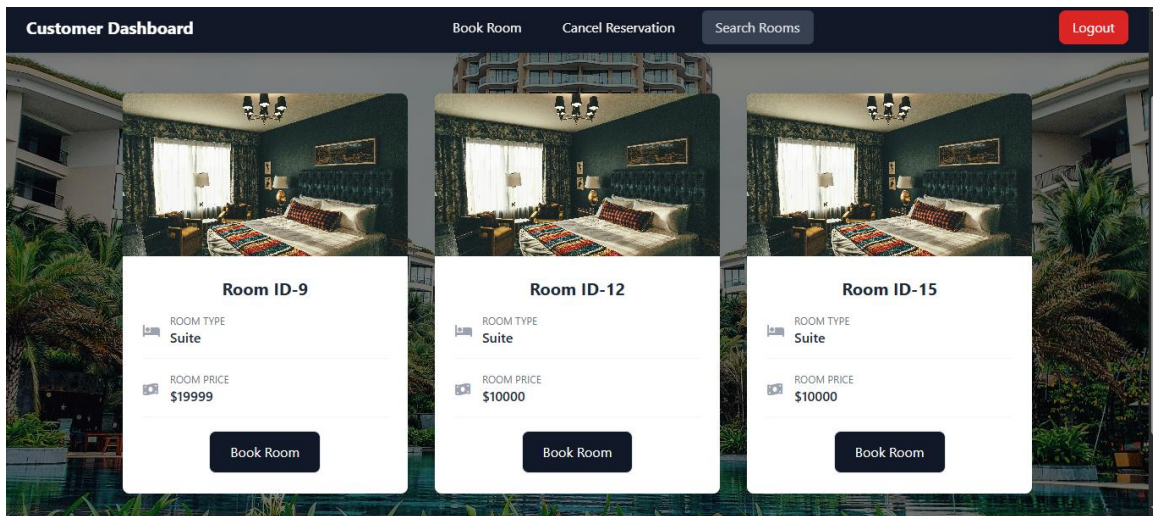


- Following are the forms for booking room, cancelling reservation and searching rooms.

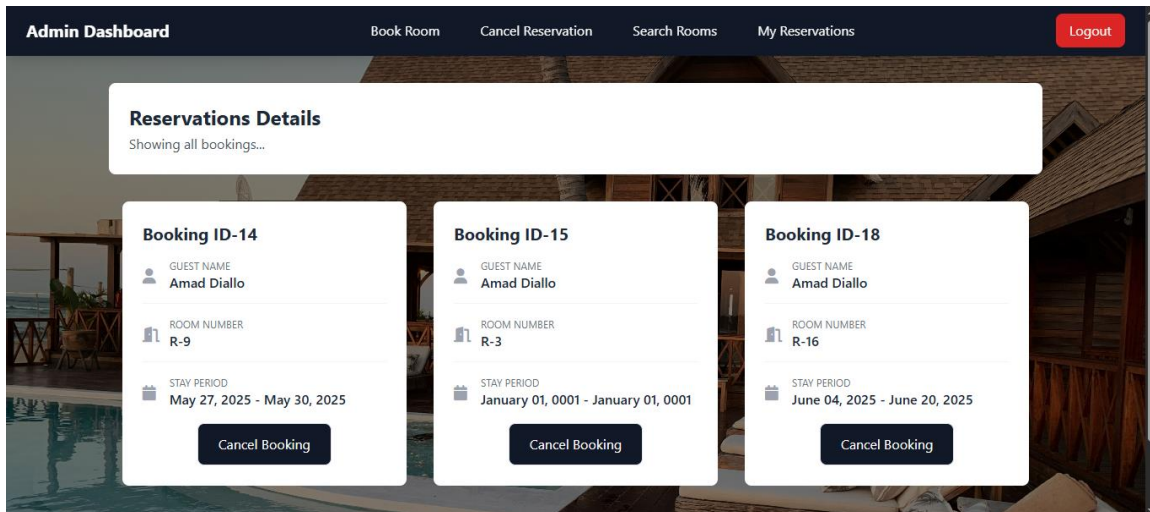




- Following are search results:



- Following are the reservations of specific user on the page My Reservations:



### 3. User Instructions:

**STEP 1:** Register or Log in using credentials: For admin: username([admin@gmail.com](mailto:admin@gmail.com)) and password(1234ABcd@). For Customer: username(customer@gmail.com) and password(1234ABcd@). For Manager: username([manager@gmail.com](mailto:manager@gmail.com)) and password(1234ABcd@).

**STEP 2 (Customer):** View available rooms, book, view his/her reservations, or cancel booking.

**STEP 2 (Admin):** Perform CRUD operations on hotel rooms and view all reservations in real time.

**STEP 2 (Manager):** View reservations and handle administrative tasks.

**STEP 3:** To search for available rooms, select "Search Available".

**STEP 4:** To book a room, select it and confirm booking.

**STEP 5:** To cancel a booking, view "My Reservations" and select "Cancel".

### 4. GitHub Repository Link

<https://github.com/pupucit/se22-nc-scd-project-task5-Hamza-157>

[https://github.com/Hamza-Zahoor157/Hotel\\_Management\\_System](https://github.com/Hamza-Zahoor157/Hotel_Management_System) (Working)