

# 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:**

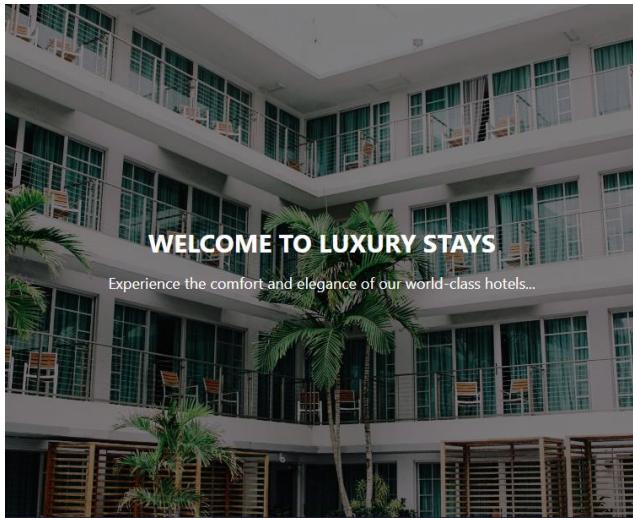
View reservations.

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.



## WELCOME TO LUXURY STAYS

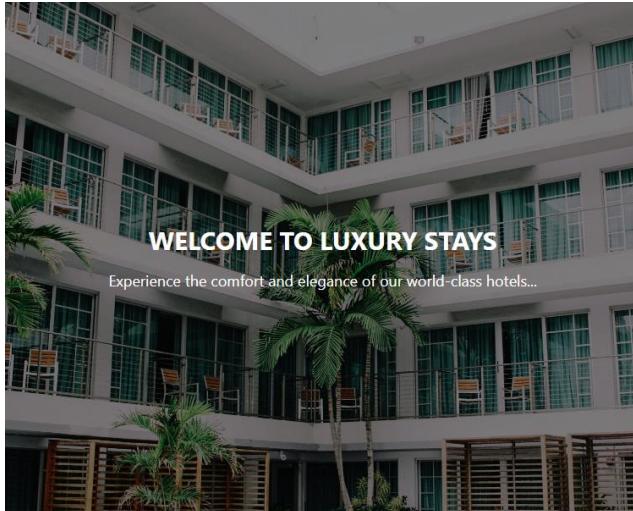
Experience the comfort and elegance of our world-class hotels...

### HOTEL MANAGEMENT SYSTEM

Who do you want to proceed as?

Register

Login



- Following is the register page:



#### SignUp Portal

hamzazahoor1067@gmail.com

.....

Confirm password

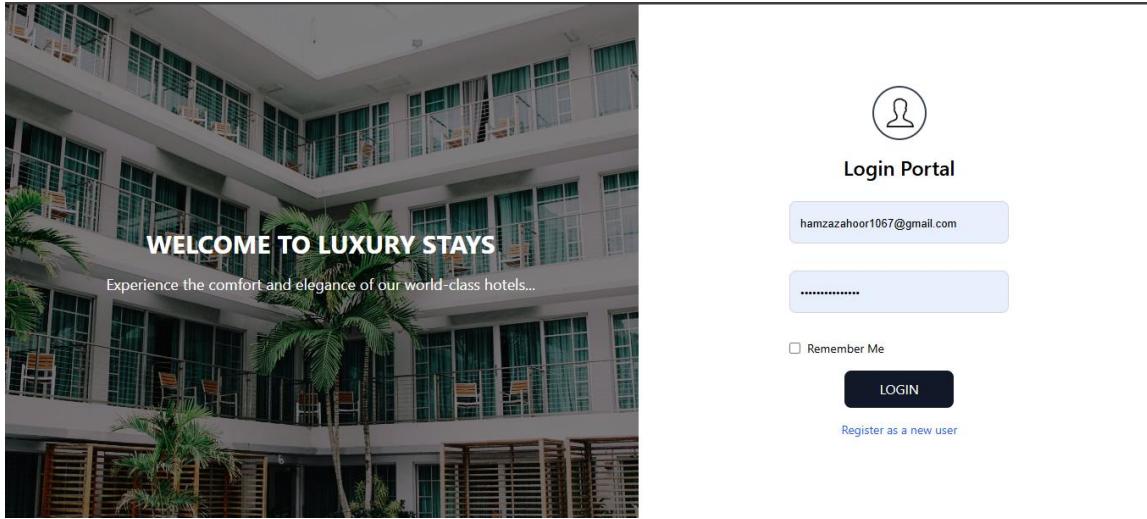
Full Name

City

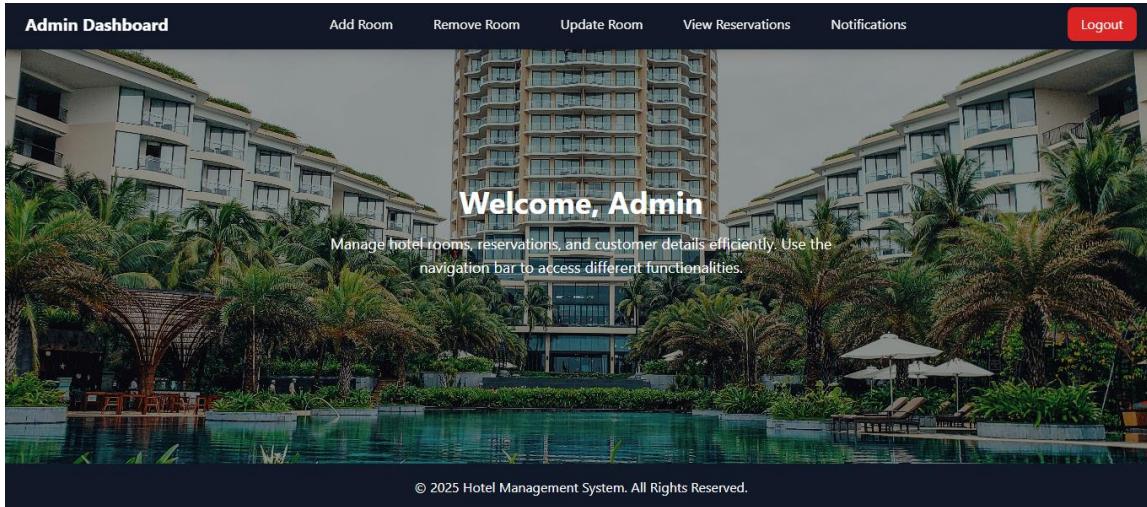
Select Role

Sign Up

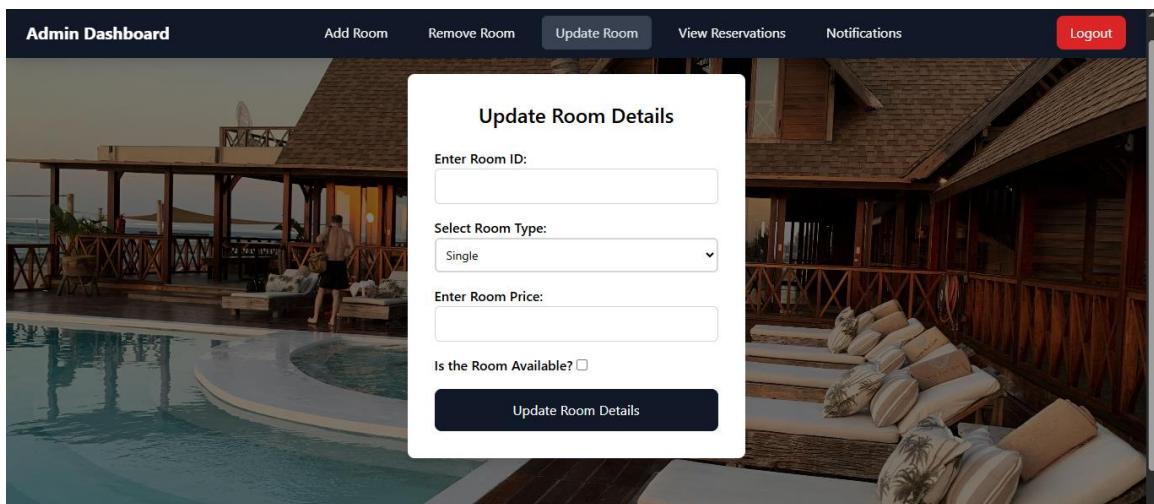
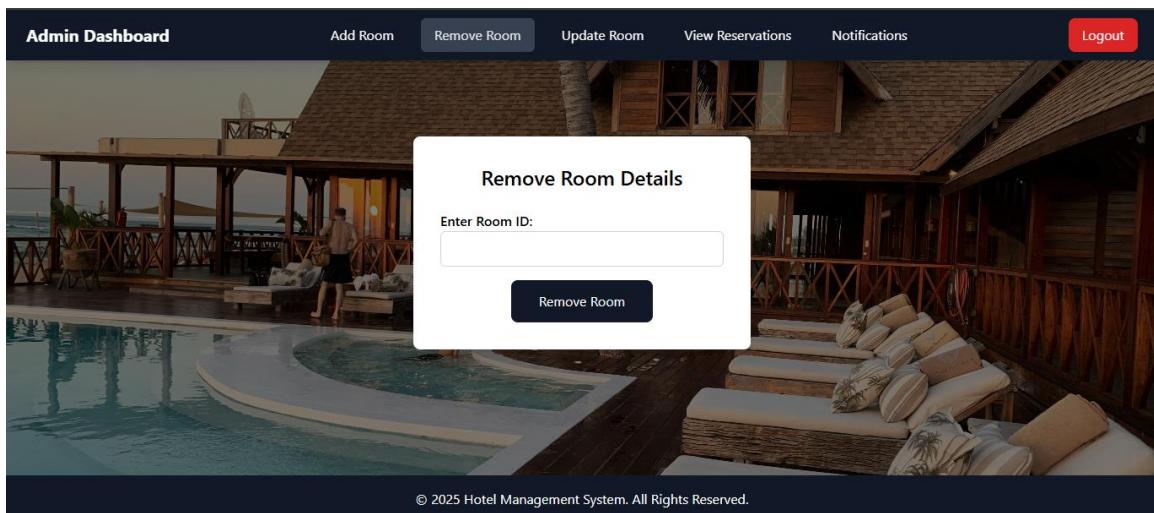
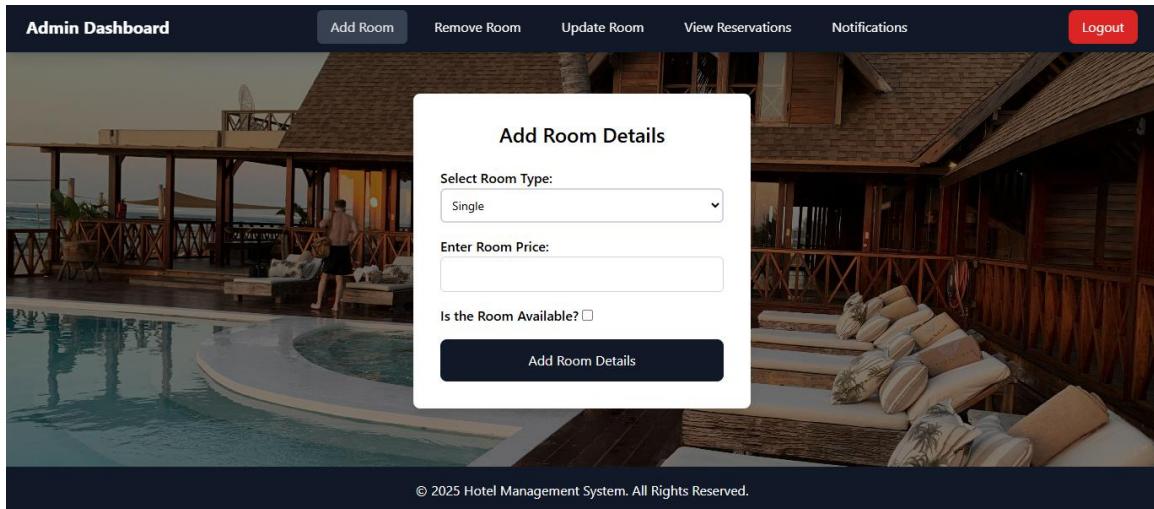
- Following is the Login Page:



- 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 can view All Reservation Details:

**Admin Dashboard**

Add Room Remove Room Update Room View Reservations Notifications Logout

### Reservations Details

Showing all bookings...

**Booking ID-1**

GUEST NAME Hamza Zahoor

ROOM NUMBER R-1

STAY PERIOD May 01, 2025 - May 23, 2025

**Booking ID-3**

GUEST NAME Abdullah Nawaz

ROOM NUMBER R-1

STAY PERIOD May 28, 2025 - May 31, 2025

**Booking ID-8**

GUEST NAME Hamid Zahoor

ROOM NUMBER R-2

STAY PERIOD May 20, 2025 - May 22, 2025

**Booking ID-9**

GUEST NAME

**Booking ID-10**

GUEST NAME

**Booking ID-14**

GUEST NAME

**Admin Dashboard**

Add Room Remove Room Update Room View Reservations Notifications Logout

R-4

STAY PERIOD May 22, 2025 - May 23, 2025

R-6

STAY PERIOD May 28, 2025 - May 30, 2025

R-9

STAY PERIOD May 27, 2025 - May 30, 2025

**Booking ID-15**

GUEST NAME Amad Diallo

ROOM NUMBER R-3

STAY PERIOD January 01, 0001 - January 01, 0001

**Booking ID-17**

GUEST NAME MusadAQ Hanif

ROOM NUMBER R-11

STAY PERIOD May 28, 2025 - May 30, 2025

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

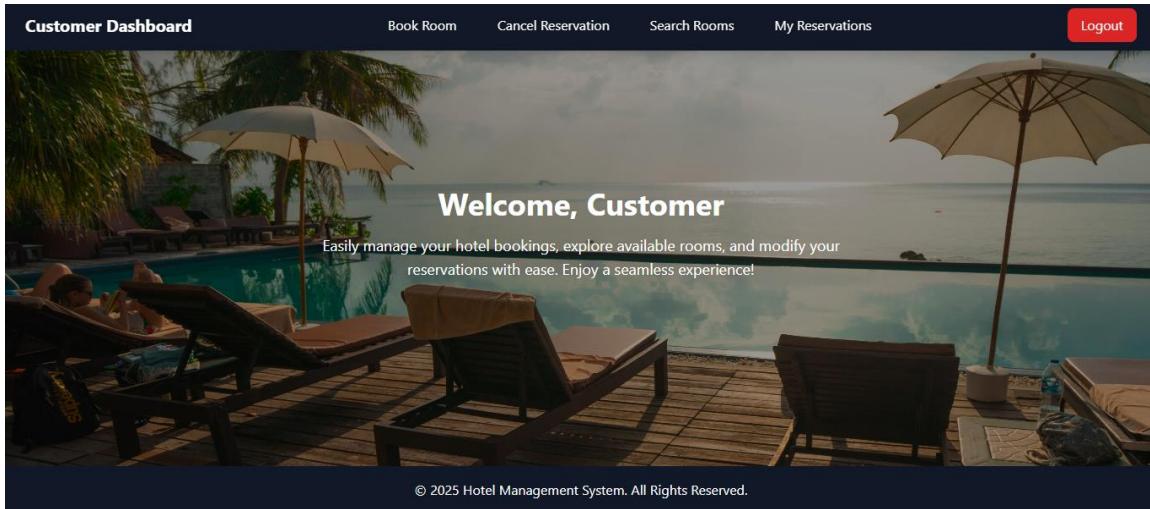
**Admin Notifications**

Back to Dashboard

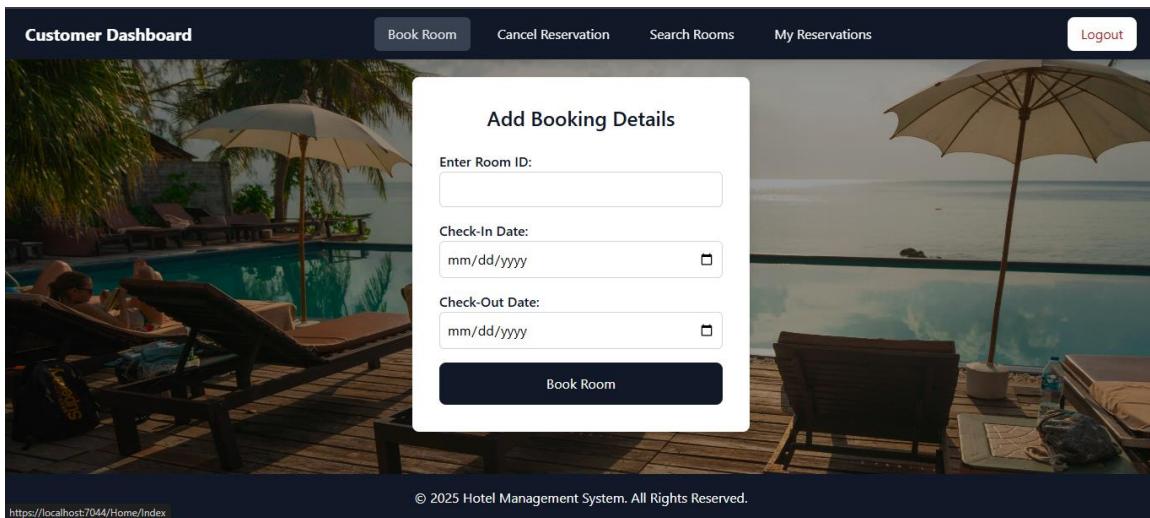
New booking: Room 16 by Amad Diallo

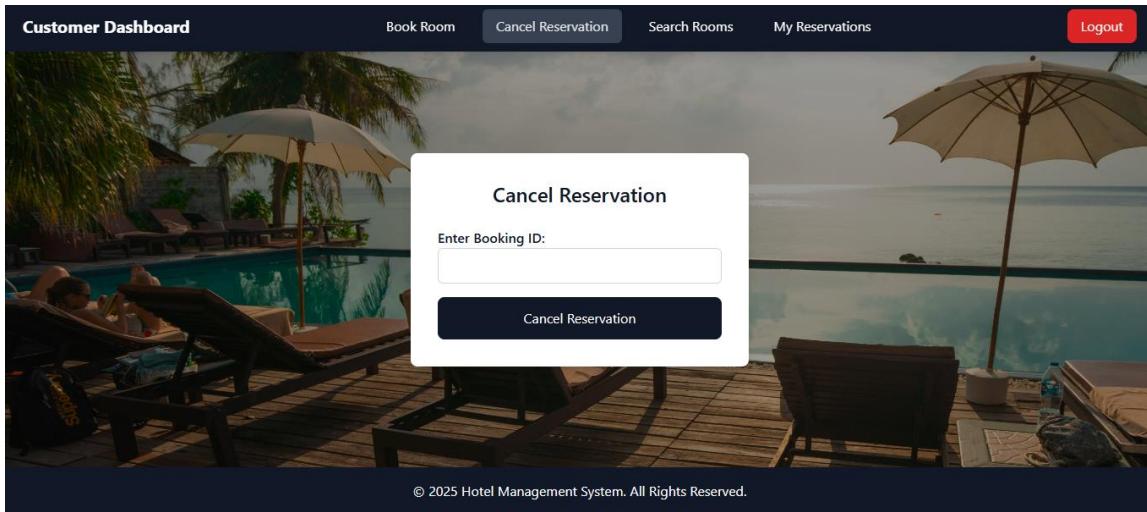
Sun Jun 15 2025 19:04:44 GMT+0500 (Pakistan Standard Time)

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

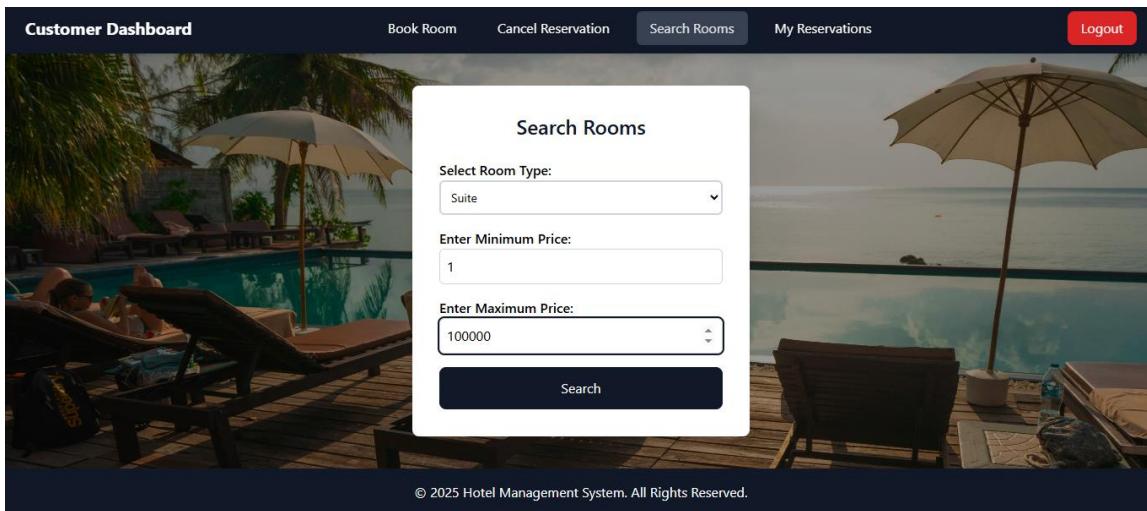


- Following are the forms for booking room, cancelling reservation and searching rooms.



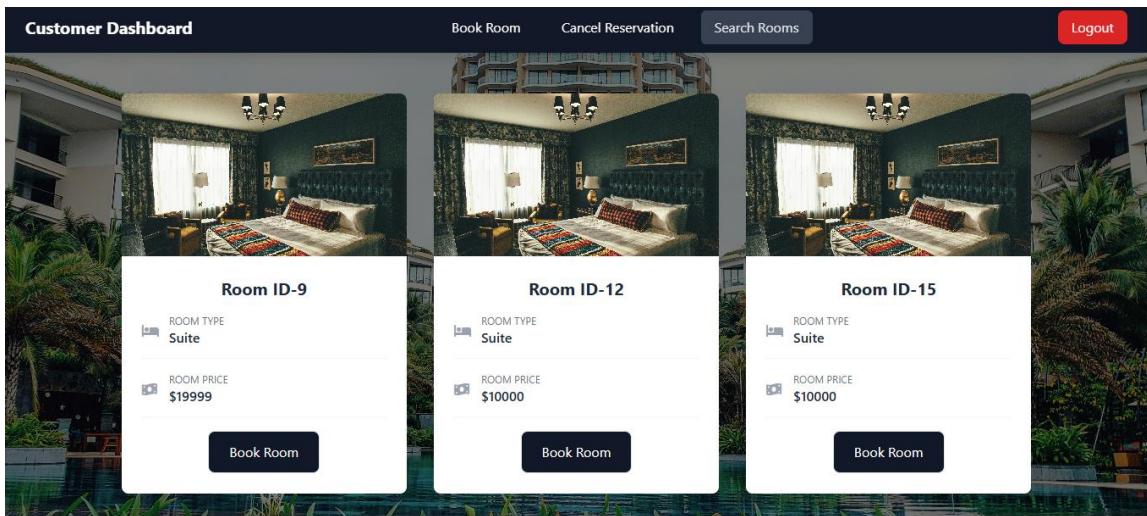


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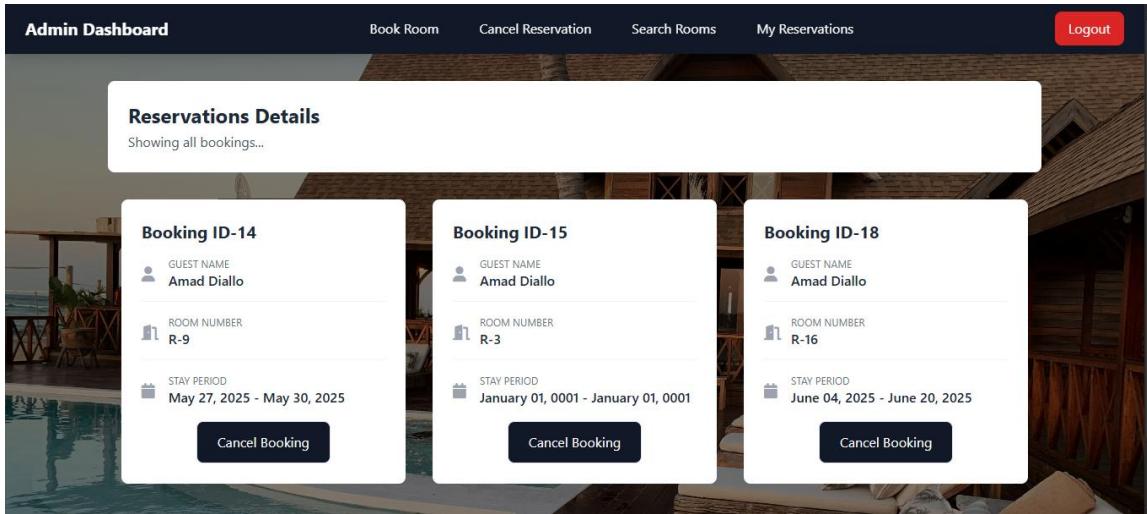


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- Following are search results:



- 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)