

DATE : 20/09/2024

Final Project

Hotel Management

Project Abstract:

This case study details the development of a comprehensive hotel management web application designed to streamline hotel operations, enhance guest experiences, and optimize the booking and room management processes. The platform is intended for use by hotel staff to manage bookings, room availability, customer interactions, and services efficiently.

Objective:

To create a robust, secure, and user-friendly hotel management system that facilitates efficient hotel operations, improved customer service, and streamlined communication between the hotel staff and guests.

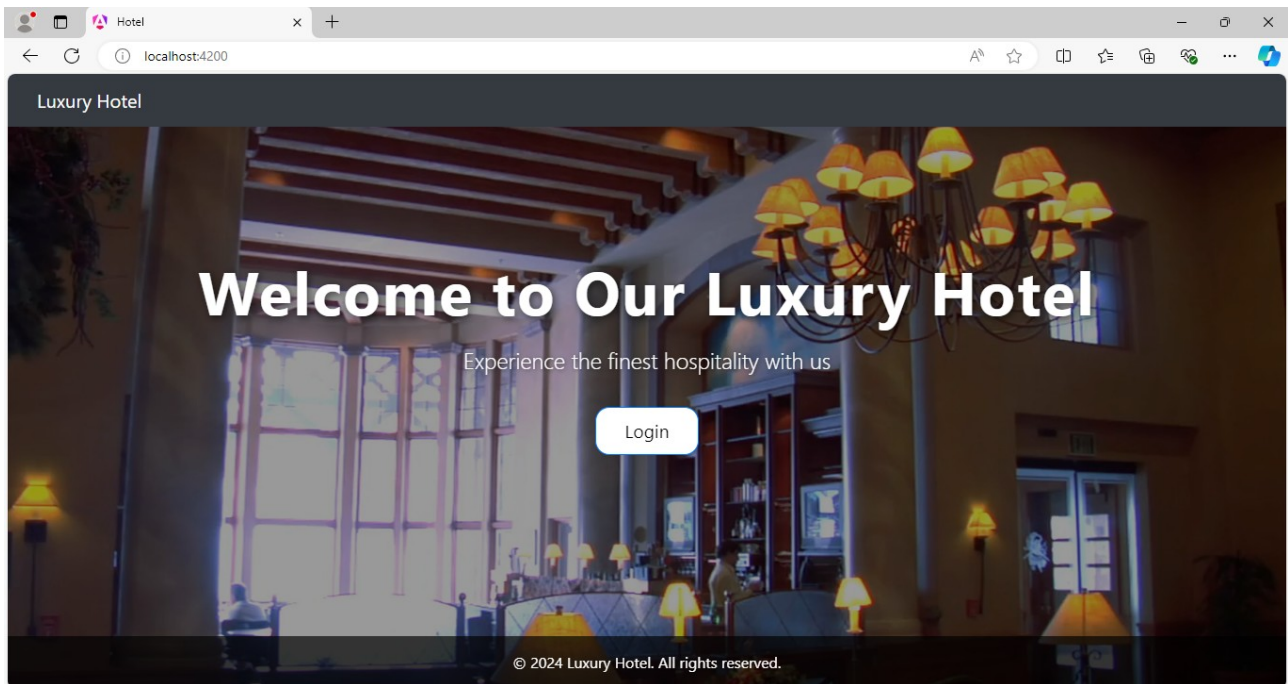
In API totally 9 Models:

1. User
2. Guest
3. Room
4. Reservation
5. Payment
6. HouseKeepingTask
7. MaintenanceRequest
8. Inventory
9. Report

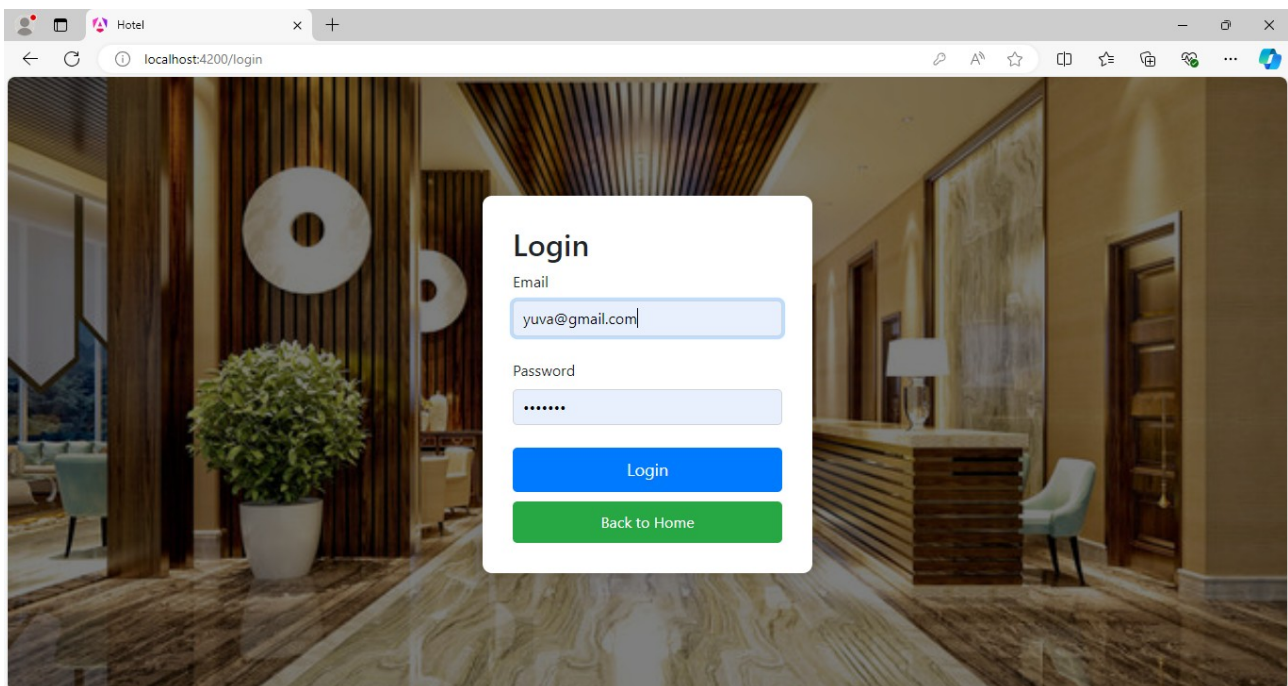
Database Design :



Home Page:

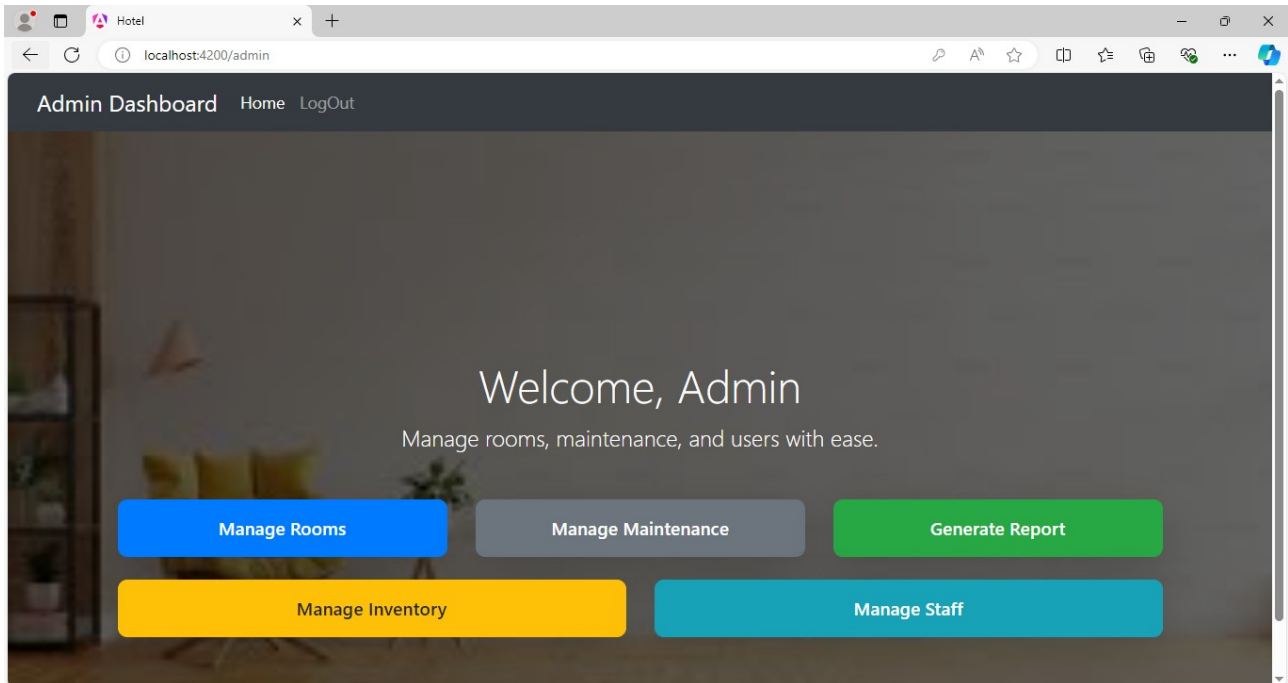


Login Page:

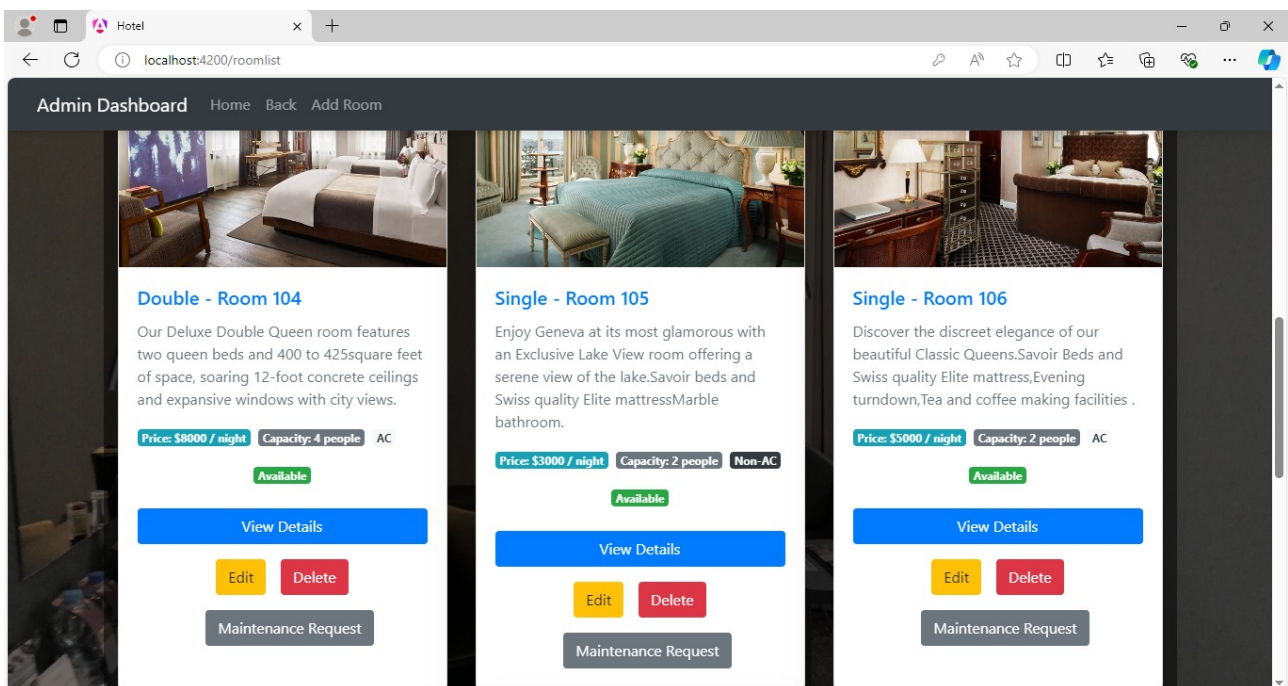


If Admin Login :

Admin Dashboard



Manage Room:



Add Room:

Hotel

localhost:4200/add-room

Add New Room

Room Number

Room Type

Price per Night

0

Room Status

Select room status

Room Description

Capacity

0

Edit Room:

Hotel

localhost:4200/room-edit/5

Admin Dashboard

Home

LogOut

Edit Room Details

Room Type

Double

Room Number

104

Price per Night

8000

Capacity

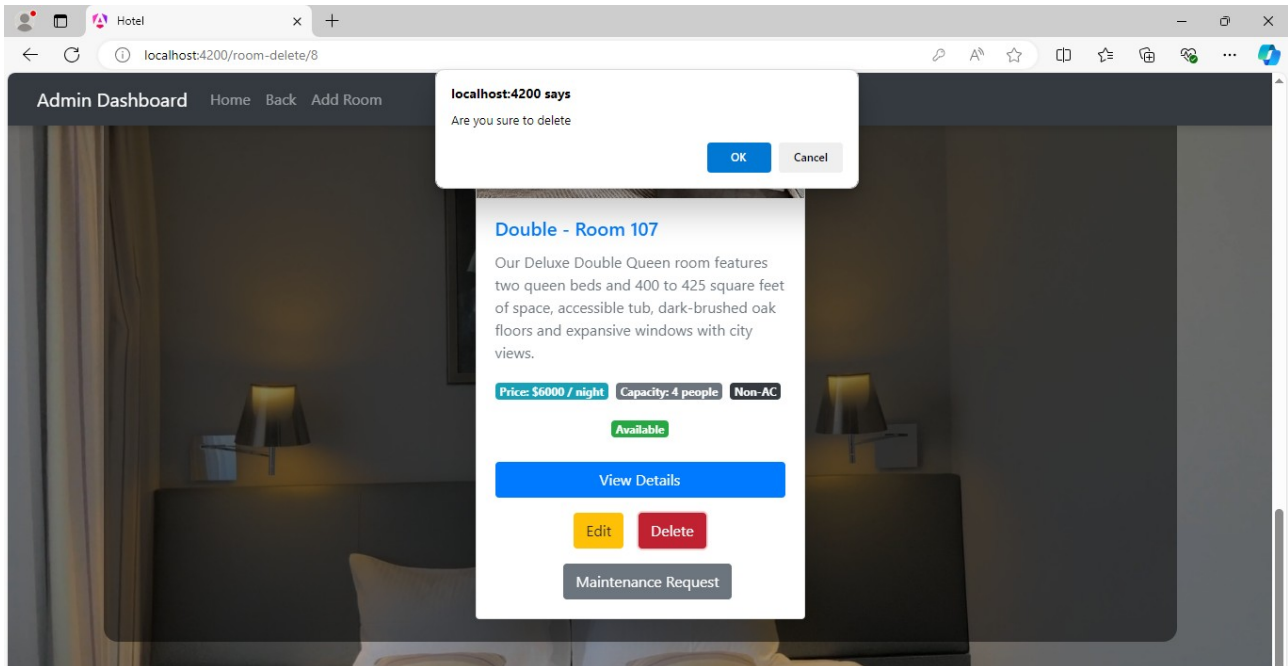
4

AC Available

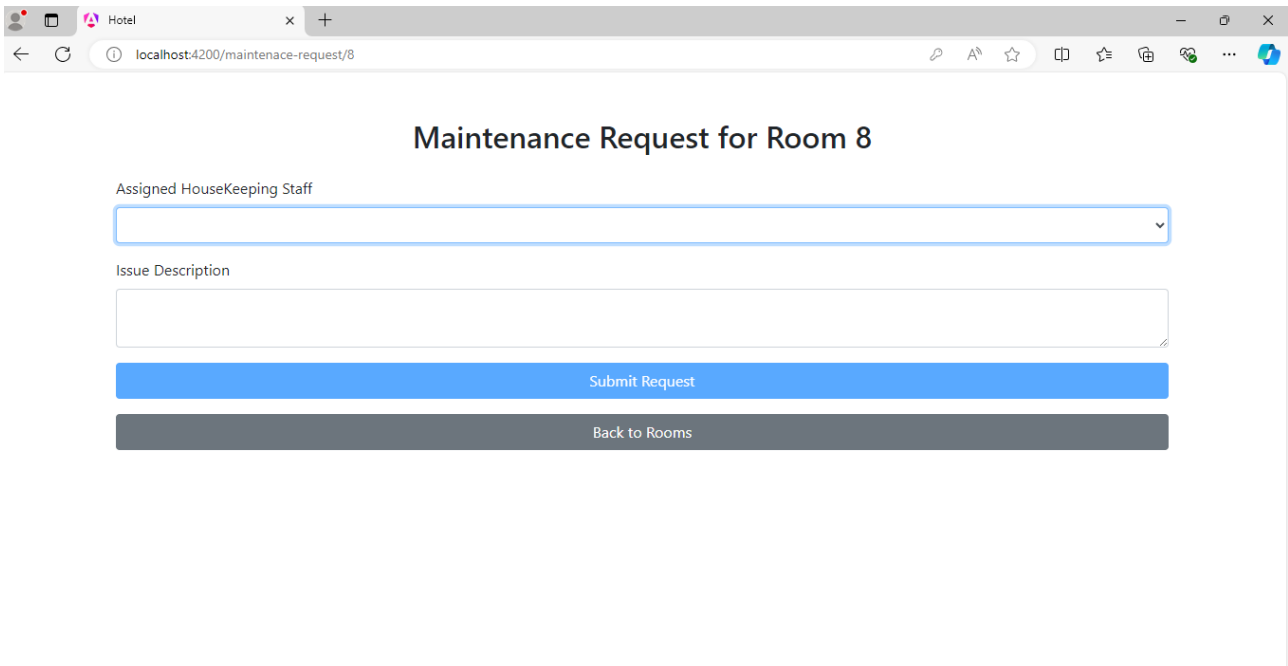
Yes

Room Status

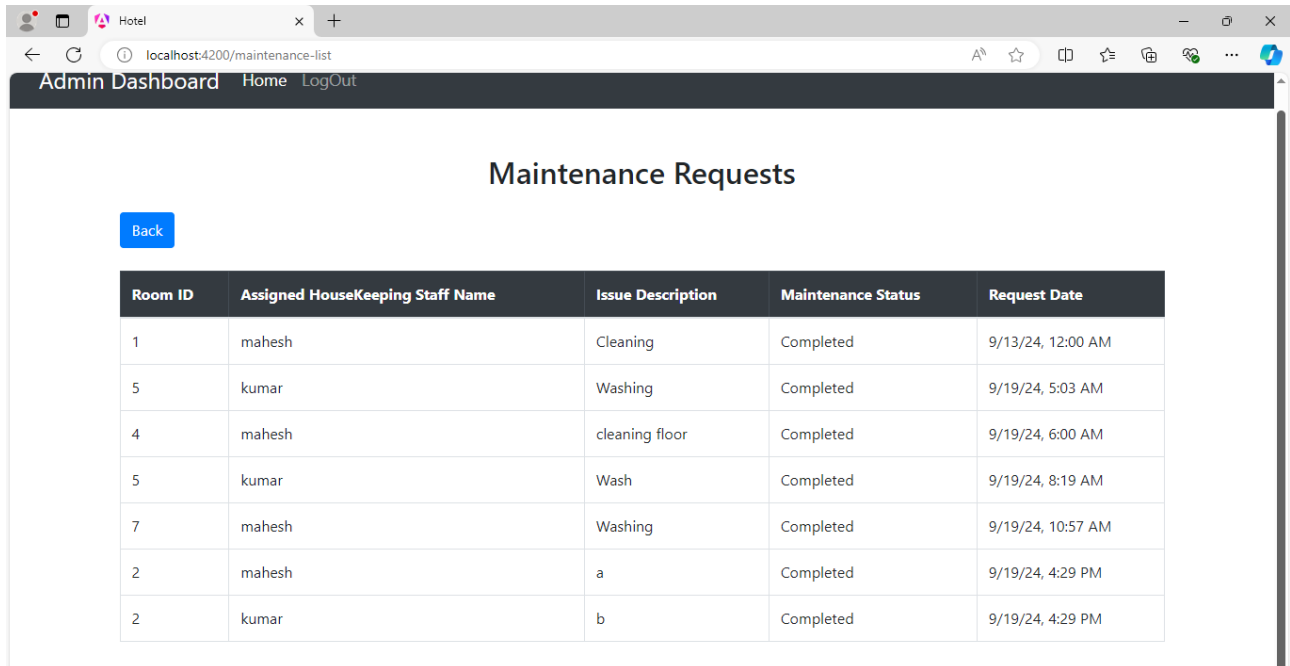
Delete Room:



Maintenance Request:

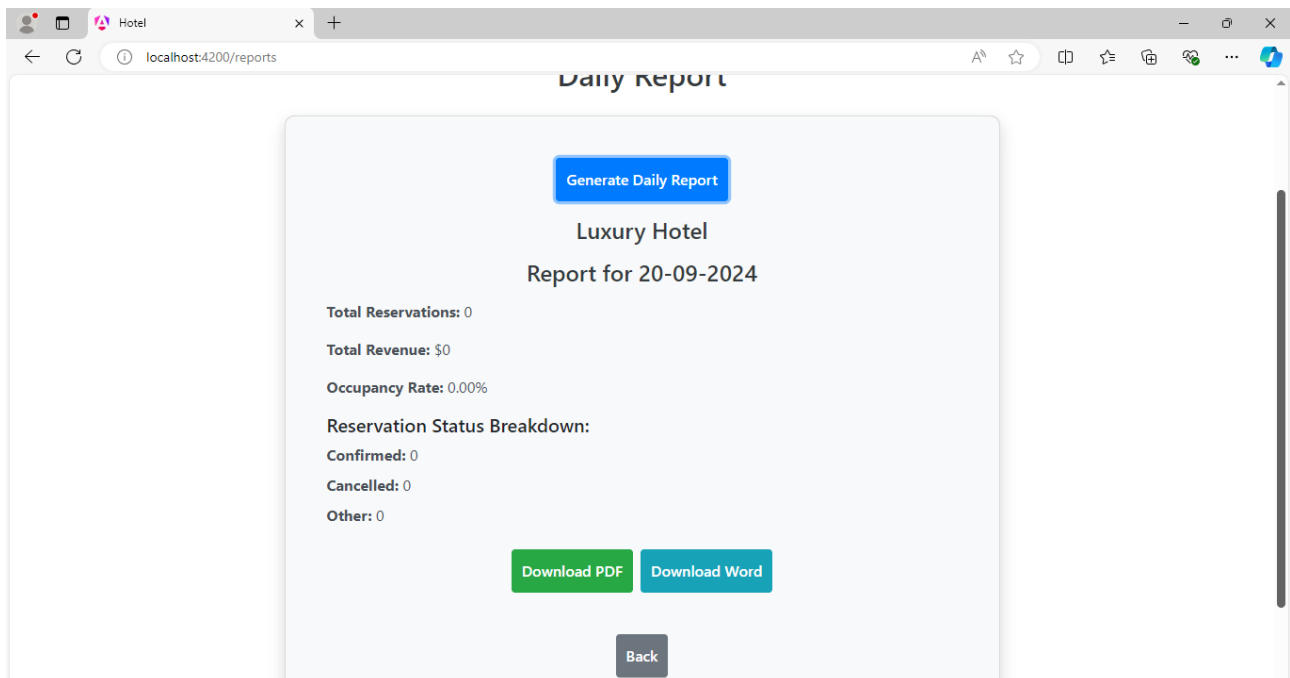


List of Request:



Room ID	Assigned HouseKeeping Staff Name	Issue Description	Maintenance Status	Request Date
1	mahesh	Cleaning	Completed	9/13/24, 12:00 AM
5	kumar	Washing	Completed	9/19/24, 5:03 AM
4	mahesh	cleaning floor	Completed	9/19/24, 6:00 AM
5	kumar	Wash	Completed	9/19/24, 8:19 AM
7	mahesh	Washing	Completed	9/19/24, 10:57 AM
2	mahesh	a	Completed	9/19/24, 4:29 PM
2	kumar	b	Completed	9/19/24, 4:29 PM

Manage Report:



Daily Report	
<div>Generate Daily Report</div> <div>Luxury Hotel</div> <div>Report for 20-09-2024</div> <div>Total Reservations: 0</div> <div>Total Revenue: \$0</div> <div>Occupancy Rate: 0.00%</div> <div>Reservation Status Breakdown:</div> <div>Confirmed: 0</div> <div>Cancelled: 0</div> <div>Other: 0</div> <div>Download PDF</div> <div>Download Word</div> <div>Back</div>	

Inventory Management:

The screenshot shows a web browser window with the URL `localhost:4200/inventory-list`. The page has a dark header with "Admin Dashboard", "Home", and "LogOut" links. The main content area is titled "Inventory List". It features a "Back" button on the left and an "Add Item" button on the right. Below these is a table with the following data:

Item Name	Quantity	Reorder Level	Last Restocked Date	Supplier	
Bed and Pillow	10	30	5/10/24	JK Traders	<button>Edit</button> <button>Delete</button>
Bed	1	5	9/5/24	ABC Limited	<button>Edit</button> <button>Delete</button>

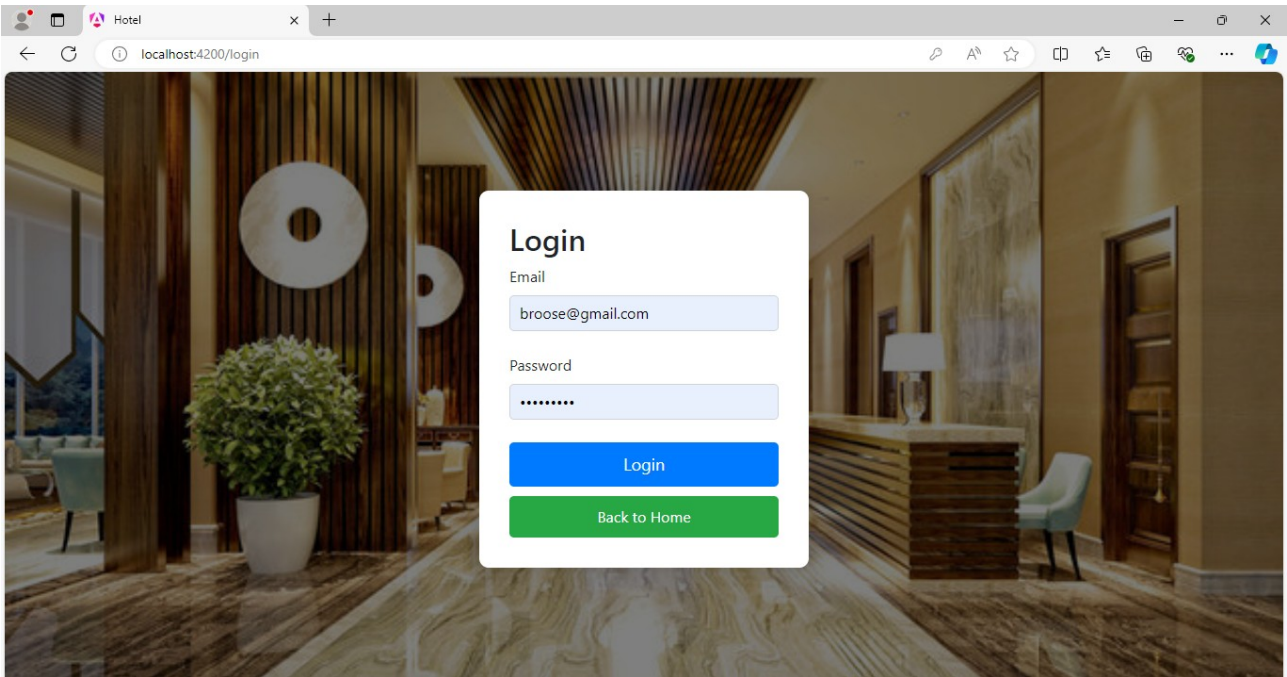
Manage Staff:

The screenshot shows a web browser window with the URL `localhost:4200/user-list`. The page has a dark header with "Admin Dashboard", "Home", and "LogOut" links. The main content area is titled "Staff List". It features a green "Add New Staff" button at the top left. Below it is a table with the following data:

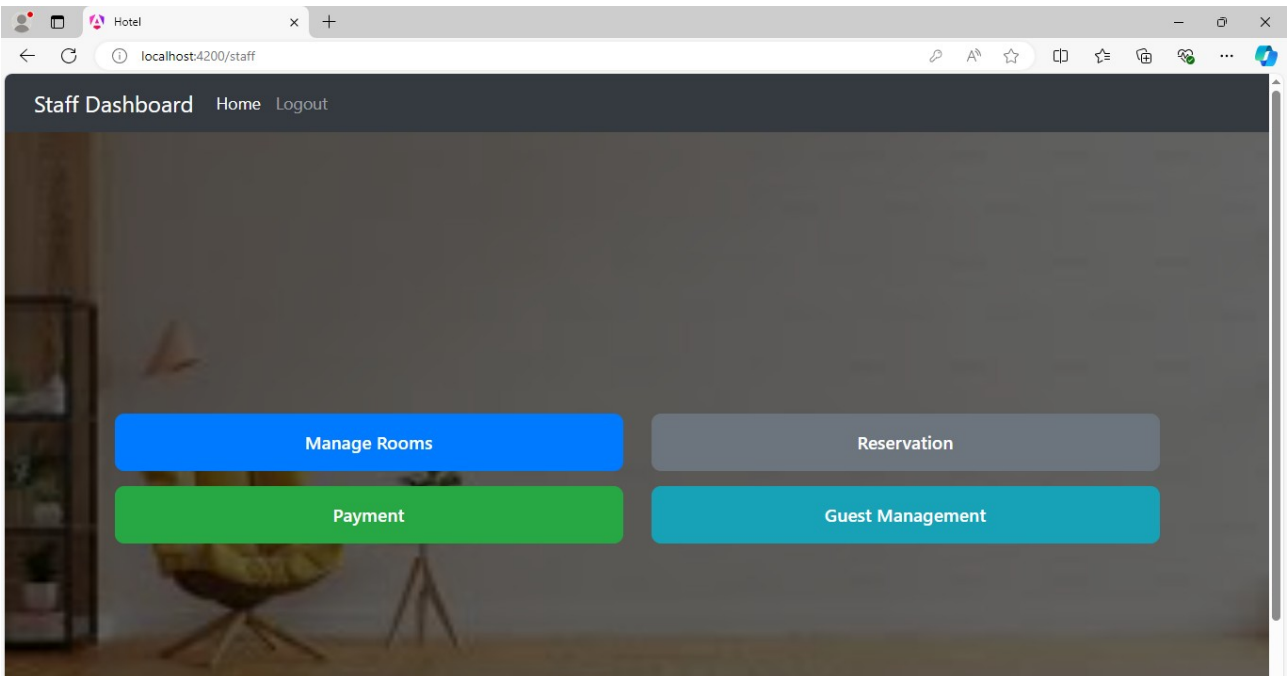
Username	Email	Role	Actions
yuva	yuva@gmail.com	Admin	<button>Edit</button> <button>Delete</button>
broose	broose@gmail.com	Staff	<button>Edit</button> <button>Delete</button>
mahesh	mahesh@gmail.com	HouseKeeping	<button>Edit</button> <button>Delete</button>
kumar	kumar@gmail.com	HouseKeeping	<button>Edit</button> <button>Delete</button>

At the bottom of the page, there is a dark grey "Back" button.

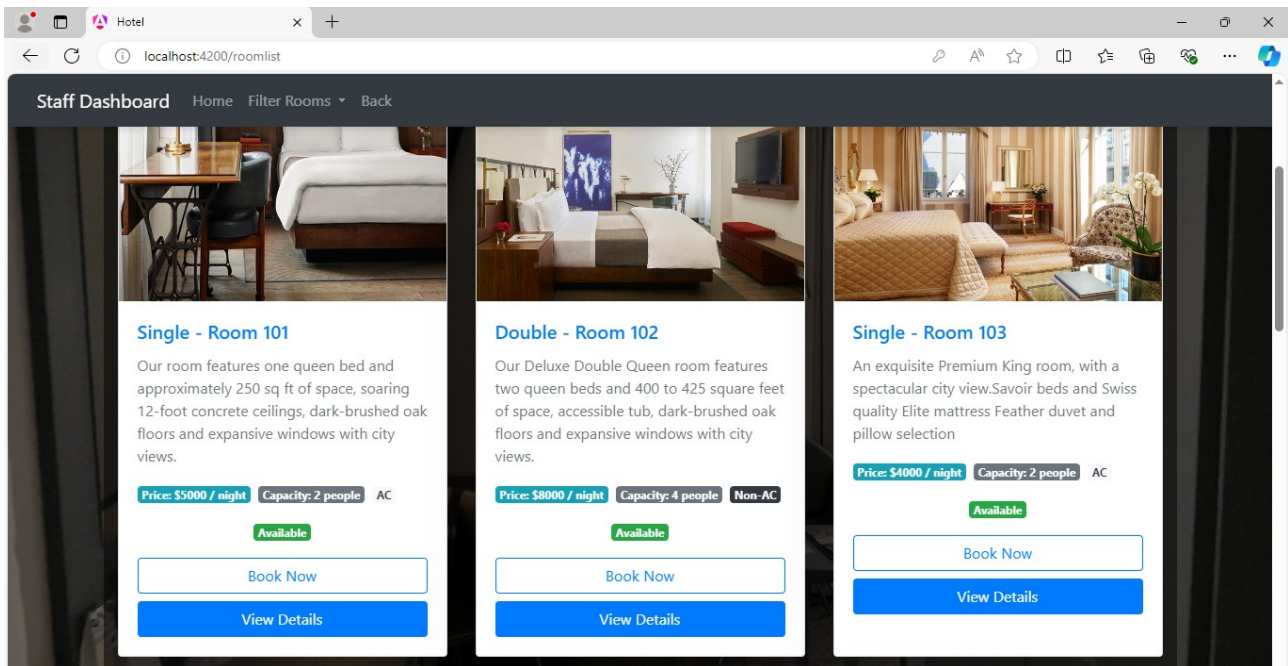
If Staff Login:



Staff Dashboard:



Manage Rooms:



Booking Rooms:

Register Guest:

The screenshot displays the 'Register Guest Details' form within the 'Staff Dashboard' interface. The form is titled 'Register Guest Details' and includes fields for First Name, Last Name, Email, Phone Number, Address, and Preferences. The 'LogOut' link is visible in the navigation bar.

Register Guest Details

First Name:

Last Name:

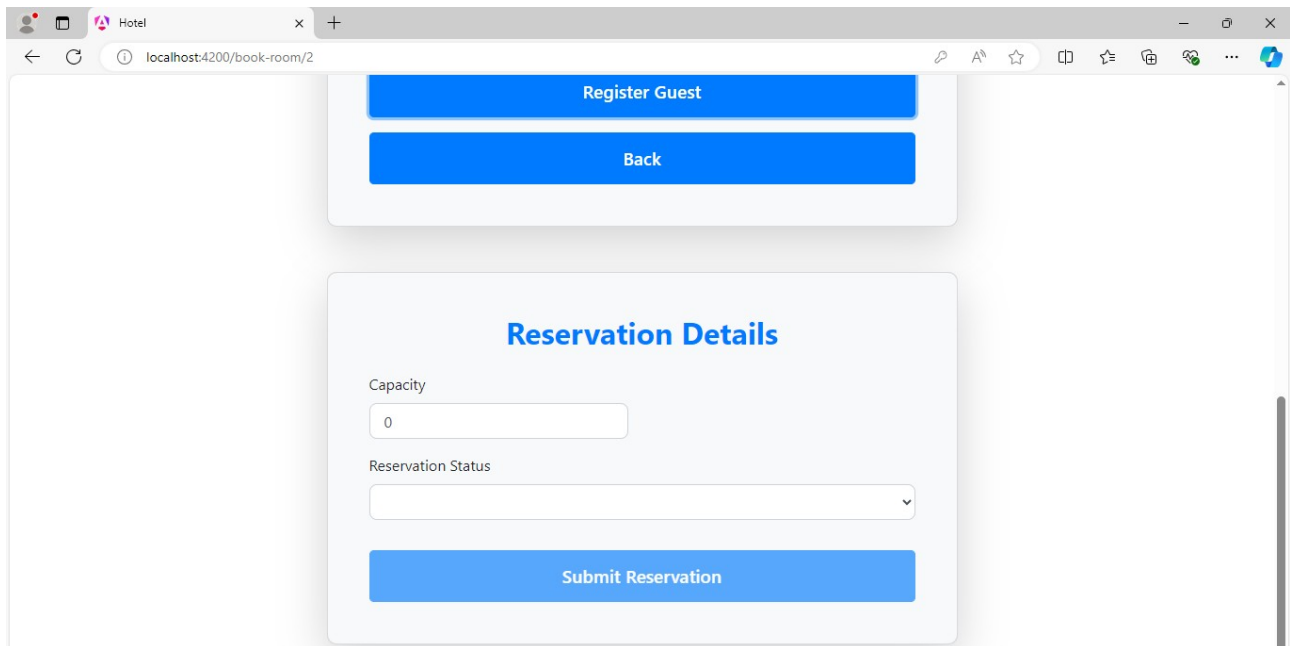
Email:

Phone Number:

Address:

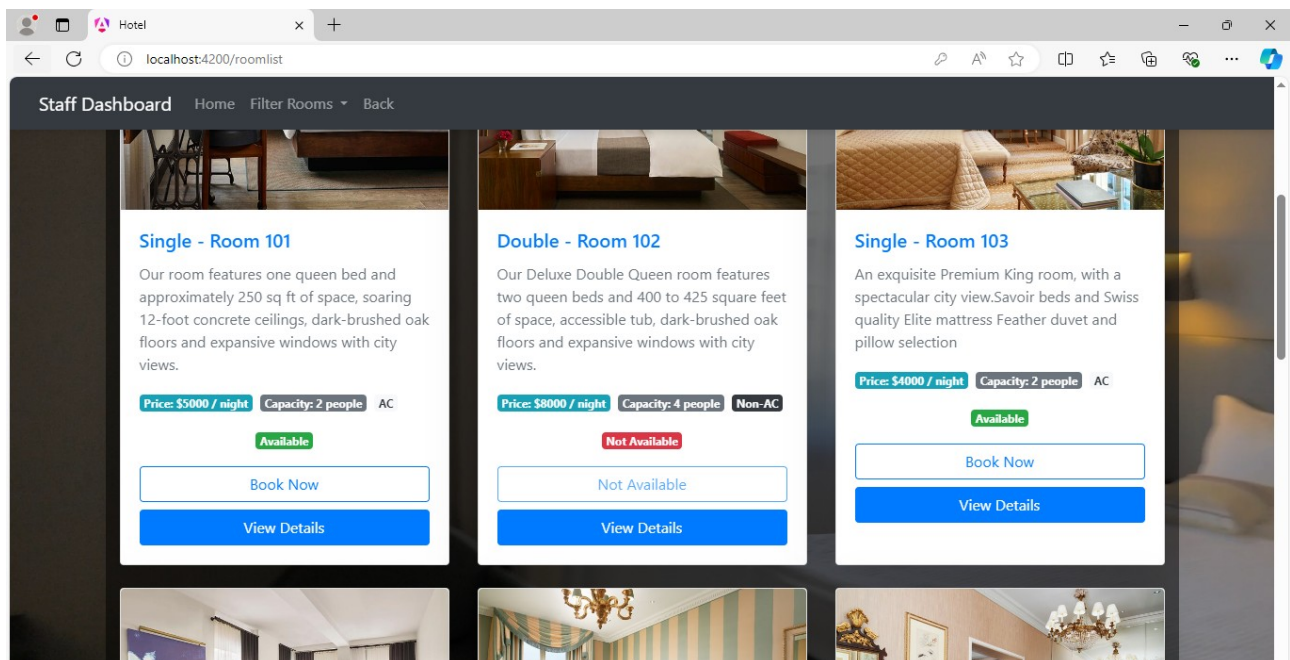
Preferences:

Reservation Details:



The screenshot shows a web browser window with the URL `localhost:4200/book-room/2`. The page contains a form for reservation details. At the top, there are two blue buttons: "Register Guest" and "Back". Below these is a "Reservation Details" section with a title "Reservation Details". Inside this section, there is a "Capacity" input field with the value "0", a "Reservation Status" dropdown menu, and a "Submit Reservation" button.

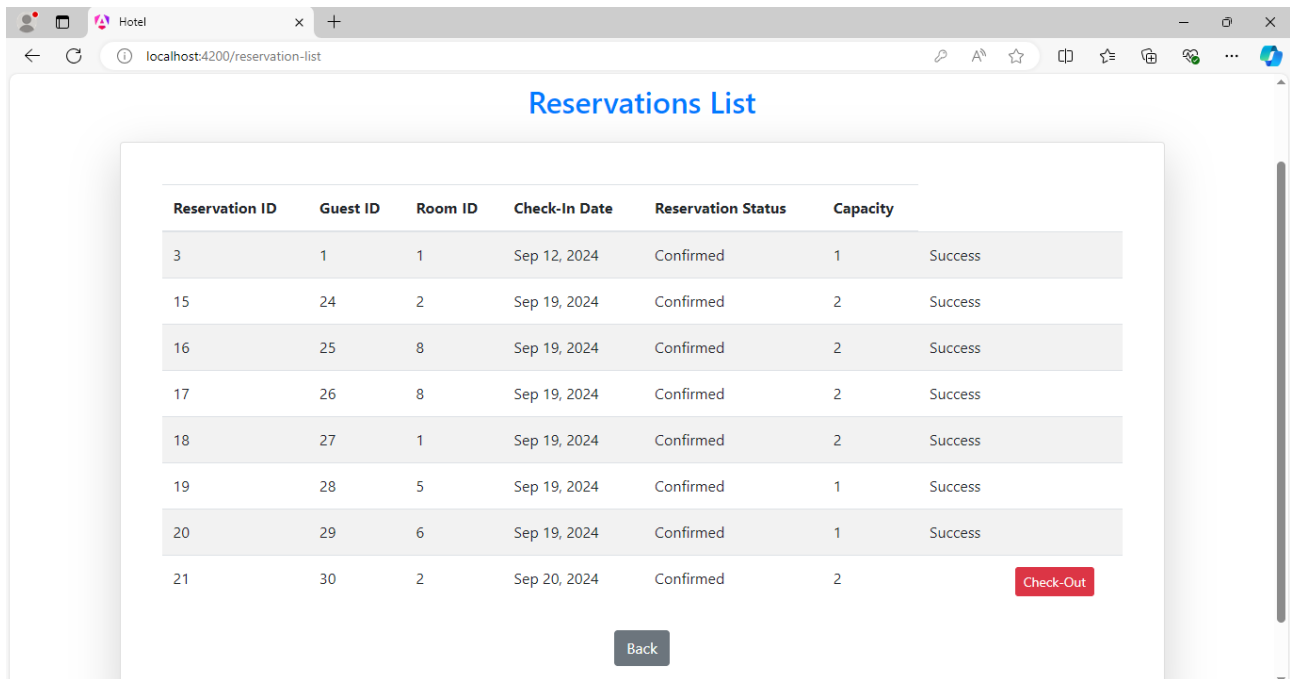
If Book the room that room is non available:



The screenshot shows a web browser window with the URL `localhost:4200/roomlist`. The page is titled "Staff Dashboard" and has a navigation bar with "Home", "Filter Rooms", and "Back". The main content area displays three room listings:

- Single - Room 101**: Our room features one queen bed and approximately 250 sq ft of space, soaring 12-foot concrete ceilings, dark-brushed oak floors and expansive windows with city views. Price: \$5000 / night, Capacity: 2 people, AC. Status: Available. Buttons: Book Now, View Details.
- Double - Room 102**: Our Deluxe Double Queen room features two queen beds and 400 to 425 square feet of space, accessible tub, dark-brushed oak floors and expansive windows with city views. Price: \$8000 / night, Capacity: 4 people, Non-AC. Status: Not Available. Buttons: Not Available, View Details.
- Single - Room 103**: An exquisite Premium King room, with a spectacular city view. Savoir beds and Swiss quality Elite mattress Feather duvet and pillow selection. Price: \$4000 / night, Capacity: 2 people, AC. Status: Available. Buttons: Book Now, View Details.

Reservation Management:

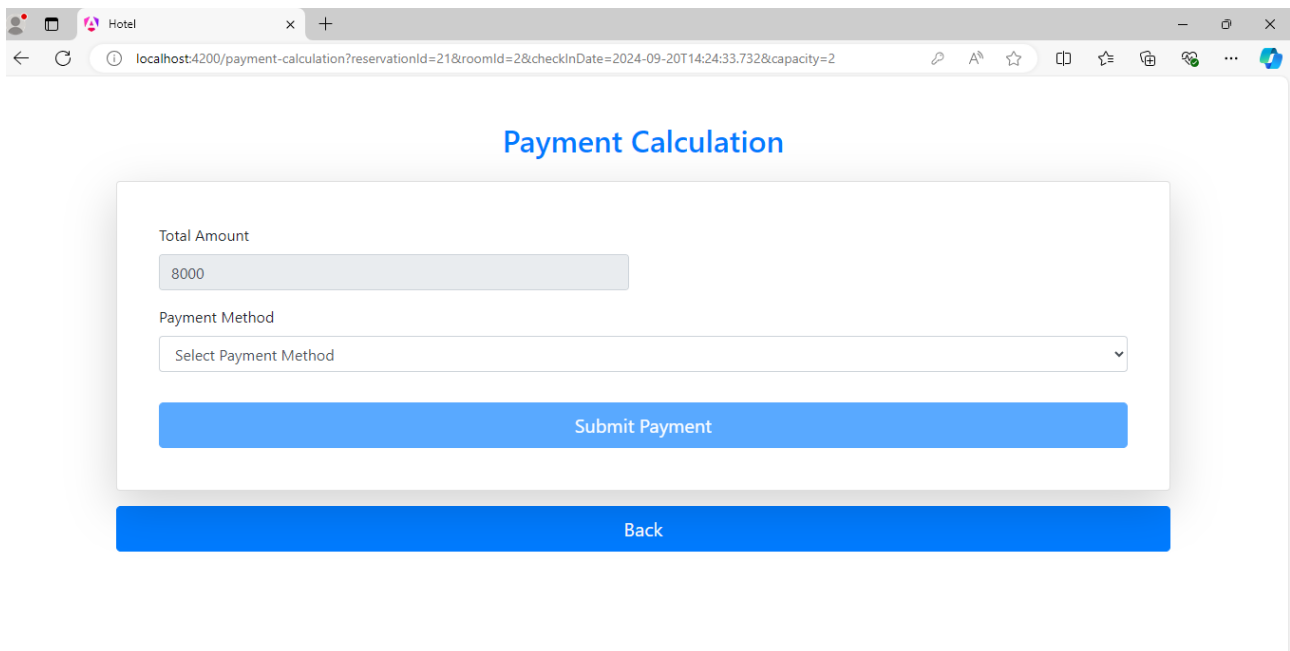


Reservation ID	Guest ID	Room ID	Check-In Date	Reservation Status	Capacity	
3	1	1	Sep 12, 2024	Confirmed	1	Success
15	24	2	Sep 19, 2024	Confirmed	2	Success
16	25	8	Sep 19, 2024	Confirmed	2	Success
17	26	8	Sep 19, 2024	Confirmed	2	Success
18	27	1	Sep 19, 2024	Confirmed	2	Success
19	28	5	Sep 19, 2024	Confirmed	1	Success
20	29	6	Sep 19, 2024	Confirmed	1	Success
21	30	2	Sep 20, 2024	Confirmed	2	<button>Check-Out</button>

Back

If click checkout:

Payment :



Payment Calculation

Total Amount

8000

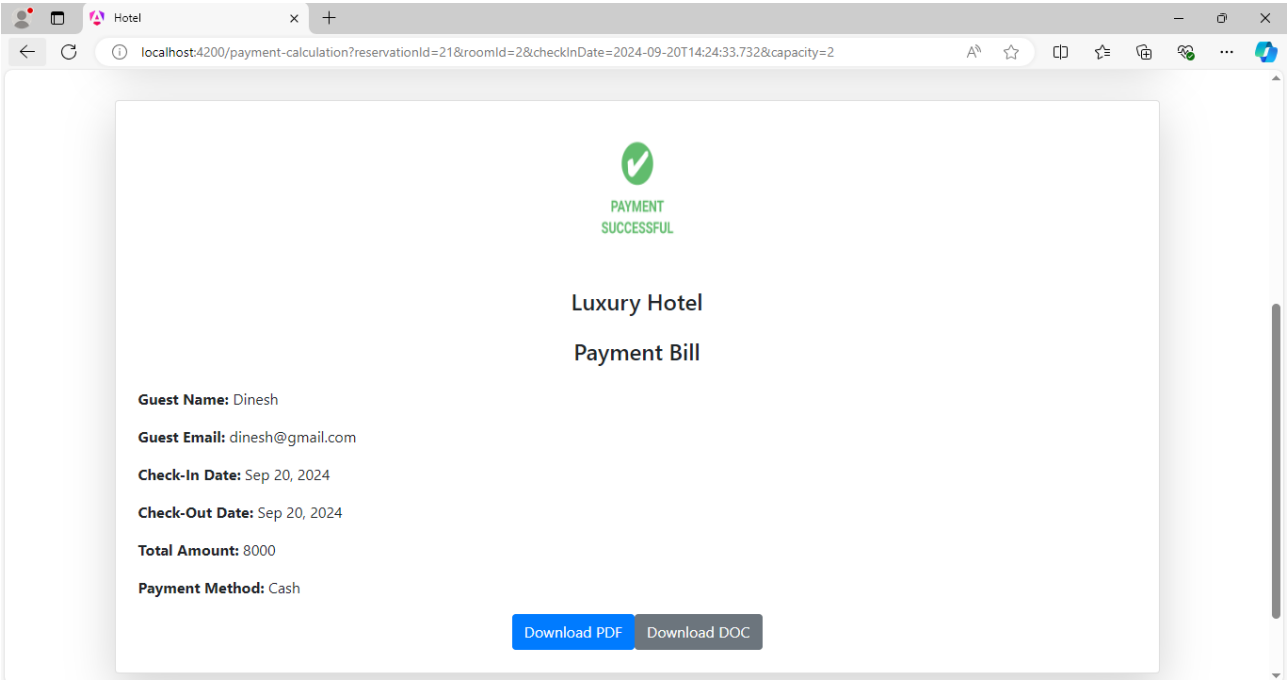
Payment Method

Select Payment Method

Submit Payment

Back

Submit the payment:

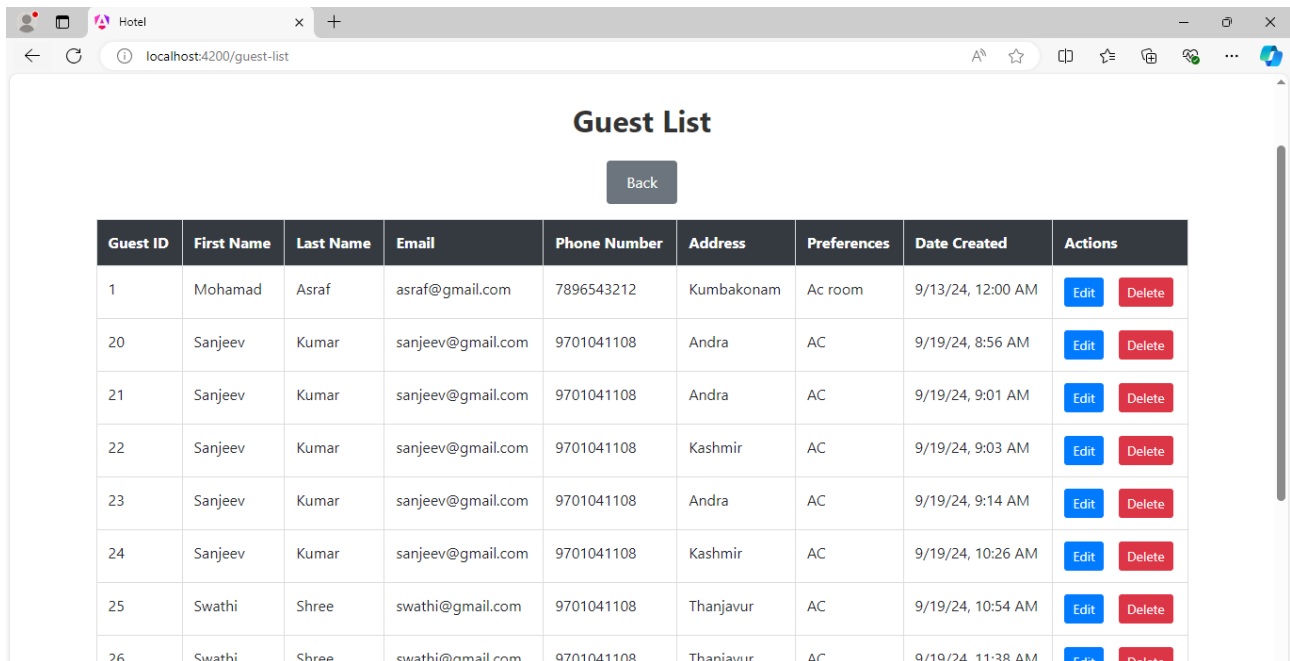


List of Payments:

A screenshot of a web browser window showing a 'Payment List' page. The browser's address bar displays the URL 'localhost:4200/payment-list'. The page title is 'Payment List'. Below the title is a table with 6 columns: Payment ID, Reservation ID, Payment Amount, Payment Method, Payment Status, and Payment Date. The table contains 9 rows of payment data. At the bottom of the page, there is a 'Back' button.

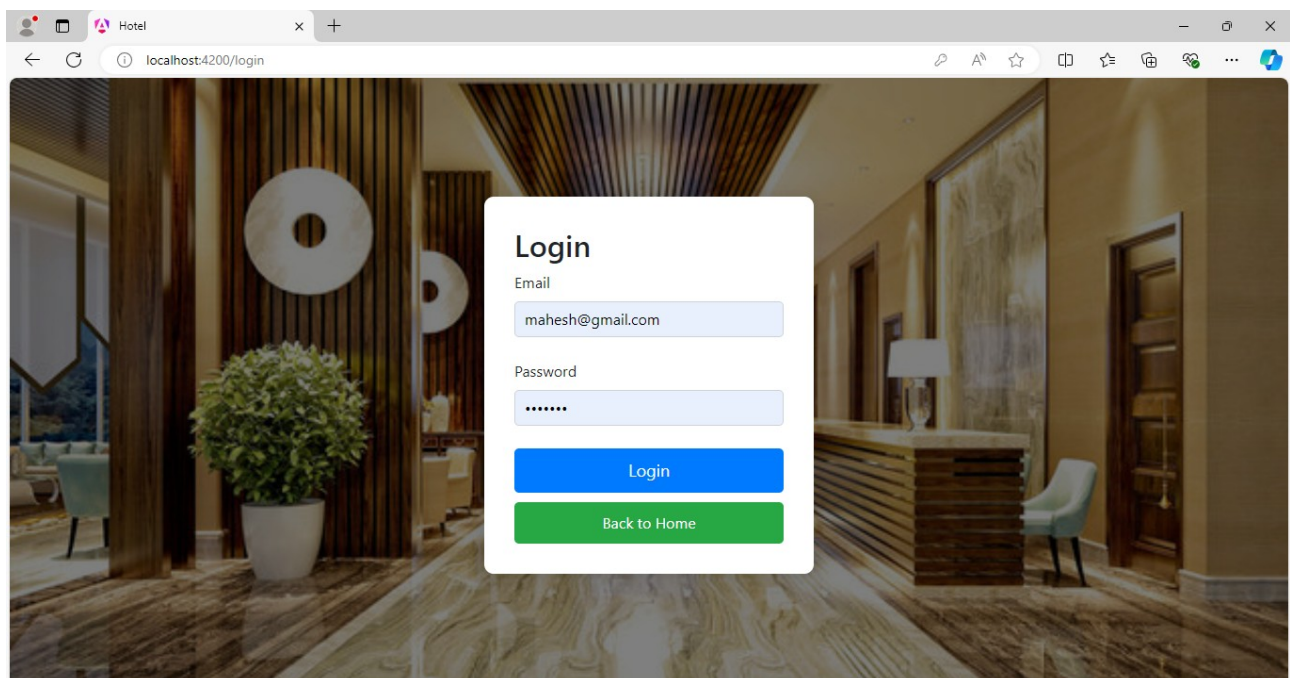
Payment ID	Reservation ID	Payment Amount	Payment Method	Payment Status	Payment Date
1	3	₹5,000.00	Cash	Success	Sep 12, 2024
2	15	₹8,000.00	Online	Success	Sep 19, 2024
3	15	₹8,000.00	Online	Success	Sep 19, 2024
4	16	₹9,000.00	Online	Success	Sep 19, 2024
5	17	₹9,000.00	Cash	Success	Sep 19, 2024
6	18	₹5,000.00	Cash	Success	Sep 19, 2024
7	19	₹10,000.00	Cash	Success	Sep 19, 2024
8	20	₹7,000.00	Cash	Success	Sep 19, 2024
9	21	₹8,000.00	Cash	Success	Sep 20, 2024

Guest Management:



Back								
Guest ID	First Name	Last Name	Email	Phone Number	Address	Preferences	Date Created	Actions
1	Mohamad	Asraf	asraf@gmail.com	7896543212	Kumbakonam	Ac room	9/13/24, 12:00 AM	Edit Delete
20	Sanjeev	Kumar	sanjeev@gmail.com	9701041108	Andra	AC	9/19/24, 8:56 AM	Edit Delete
21	Sanjeev	Kumar	sanjeev@gmail.com	9701041108	Andra	AC	9/19/24, 9:01 AM	Edit Delete
22	Sanjeev	Kumar	sanjeev@gmail.com	9701041108	Kashmir	AC	9/19/24, 9:03 AM	Edit Delete
23	Sanjeev	Kumar	sanjeev@gmail.com	9701041108	Andra	AC	9/19/24, 9:14 AM	Edit Delete
24	Sanjeev	Kumar	sanjeev@gmail.com	9701041108	Kashmir	AC	9/19/24, 10:26 AM	Edit Delete
25	Swathi	Shree	swathi@gmail.com	9701041108	Thanjavur	AC	9/19/24, 10:54 AM	Edit Delete
26	Swathi	Shree	swathi@gmail.com	9701041108	Thanjavur	AC	9/19/24, 11:38 AM	Edit Delete

If Particular HouseKeeping staff login:



Login

Email

Password

[Login](#)

[Back to Home](#)

It see only task assigned for him:

Hotel

localhost:4200/task-list/4

HouseKeeping DashboardHomeLogout

Housekeeping Task List

Task ID	Task Status	Room ID	Assigned Staff ID	Task Description	Task Date	Action
1	Completed	1	4	Cleaning	9/13/24, 12:00 AM	
9	Completed	4	4	cleaning floor	9/19/24, 6:00 AM	
11	Completed	7	4	Washing	9/19/24, 10:57 AM	
12	Completed	2	4	a	9/19/24, 4:29 PM	