ROOM RESERVATION PROJECT

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1. Introduction

Purpose of the Project

The purpose of the Room Reservation System project is to provide users with a convenient platform to browse and reserve rooms in a hotel or accommodation facility. The project aims to streamline the process of room reservation and improve user experience through an intuitive web application.

1. Introduction:

The Room Reservation System is a web-based application designed to streamline the process of booking rooms in a hotel or similar establishment. The system aims to provide users with an easy and efficient way to view available rooms, make reservations, and manage their bookings. This report details the development and implementation of the Room Reservation System, outlining its features, architecture, and management approach.

2. Project Requirements:

Addition of a room (multiple categories)

- Consultation of the state of the rooms
- Reservation of room of a specific category and duration
- Cancellation of reservations
- Arrival of customers
- Leaving customers

3. Chosen Technologies and Motivations:

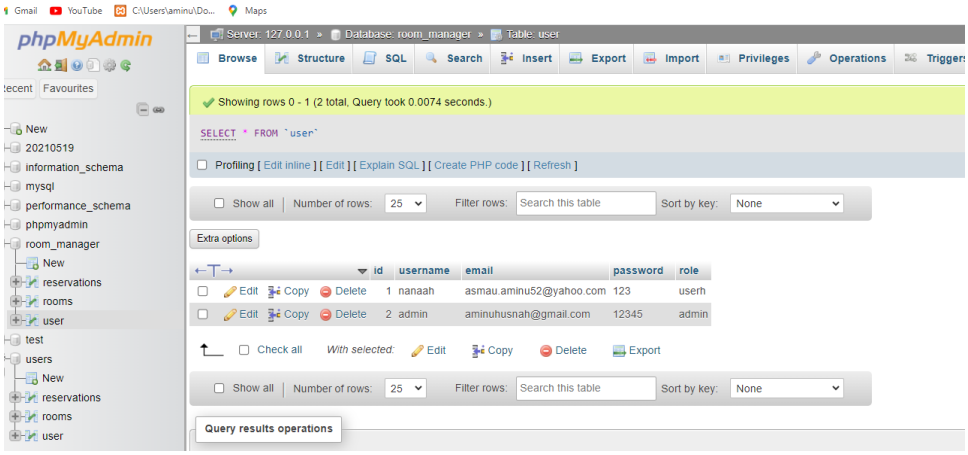
For the development of the Room Reservation System, I use Java as the programming language and JSP (Java Server Pages) for creating dynamic web pages. The Spring MVC framework was chosen to implement the Model-View-Controller (MVC) architecture, separating concerns and ensuring maintainability. The choice of MySQL as the database management system offers data storage and retrieval capabilities.

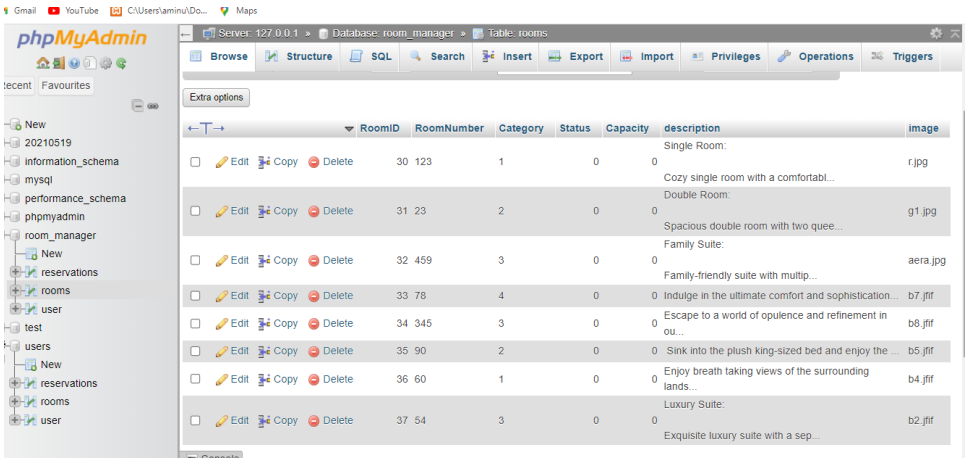
4. Application Architecture and Detailed Design:

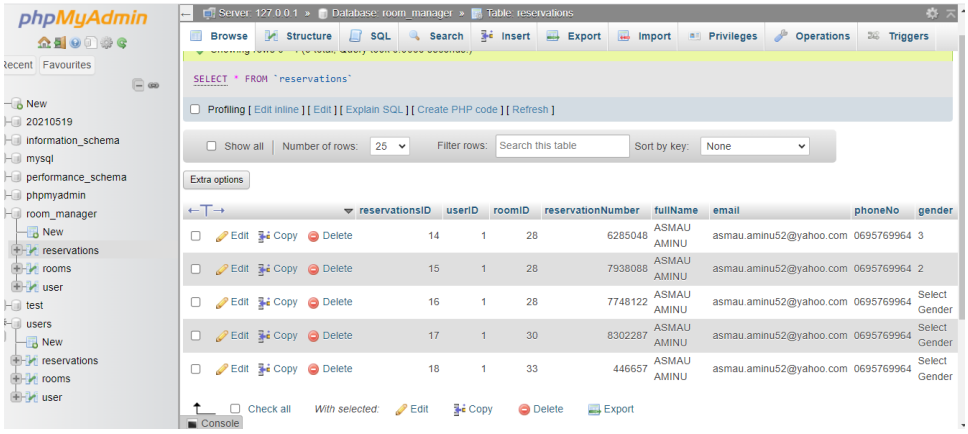
3.1. MVC Pattern Implementation: The system follows the MVC architectural pattern. The Model represents the business logic and interacts with the database. The View handles the presentation layer, displaying information to users. The Controller receives user input, processes it, and communicates with the Model and View.

3.2. Software Components and Their Interactions: The Room Reservation System consists of various components, including user authentication, room management, reservation handling, and administrative controls. User interactions trigger controller actions, which update the model and the view accordingly.

3.3. Database Design: The database design includes tables for users, rooms, reservations, and other relevant information. Relationships between tables are established to maintain data integrity. The database design ensures efficient data storage and retrieval for a smooth user experience.







4. Project Management:

4.1. Planning: The project was planned using an iterative approach with multiple releases. The initial planning phase involved defining project goals, scope, and timeline. Agile methodologies were employed to accommodate changes and enhance collaboration among team members.

4.2. Releases: The project was divided into several releases, each delivering specific features. Early releases focused on user registration, login, and room

availability display. Subsequent releases added reservation functionality, user profile management, and administrative controls.

5. User Guide:

The user guide provides comprehensive instructions for using the Room Reservation System. It covers user registration, login, room search, reservation creation, profile management, and administrative functionalities. Screenshots and step-by-step explanations assist users in navigating the system effectively.

6. Conclusion:

The Room Reservation System project successfully achieved its goals of providing a user-friendly platform for booking rooms. The system's functionalities were implemented according to the project requirements, enhancing the user experience and simplifying room reservation processes.

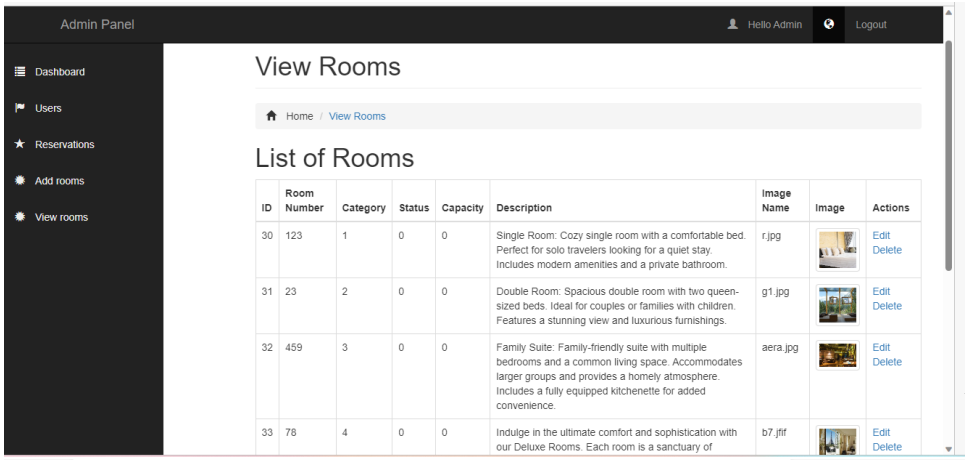
7. Perspectives:

The Room Reservation System lays the foundation for potential enhancements. Future perspectives include incorporating payment gateways for online transactions, implementing a feedback system, and optimizing the user interface for various devices.

In conclusion, the Room Reservation System project demonstrates the successful implementation of a web-based application that facilitates room booking processes. The project team's collaboration, choice of technologies, and adherence to best practices contributed to the development of a robust and user-friendly system.

SCREENSHOTS

Admin Panel


Admin Panel
Hello Admin
Logout
Dashboard
Users
Reservations
Add rooms
View rooms
View Rooms
Home / View Rooms
List of Rooms
ID
Room Number
Category
Status
Capacity
Description
Image Name
Image
Actions
30
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Single Room: Cozy single room with a comfortable bed. Perfect for solo travelers looking for a quiet stay. Includes modern amenities and a private bathroom.
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Double Room: Spacious double room with two queen-sized beds. Ideal for couples or families with children. Features a stunning view and luxurious furnishings.
g1.jpg
Edit
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459
3
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Family Suite: Family-friendly suite with multiple bedrooms and a common living space. Accommodates larger groups and provides a homely atmosphere. Includes a fully equipped kitchenette for added convenience.
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Indulge in the ultimate comfort and sophistication with our Deluxe Rooms. Each room is a sanctuary of
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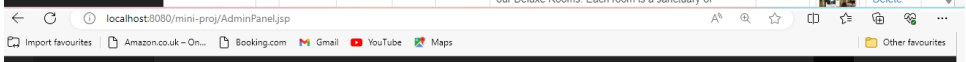
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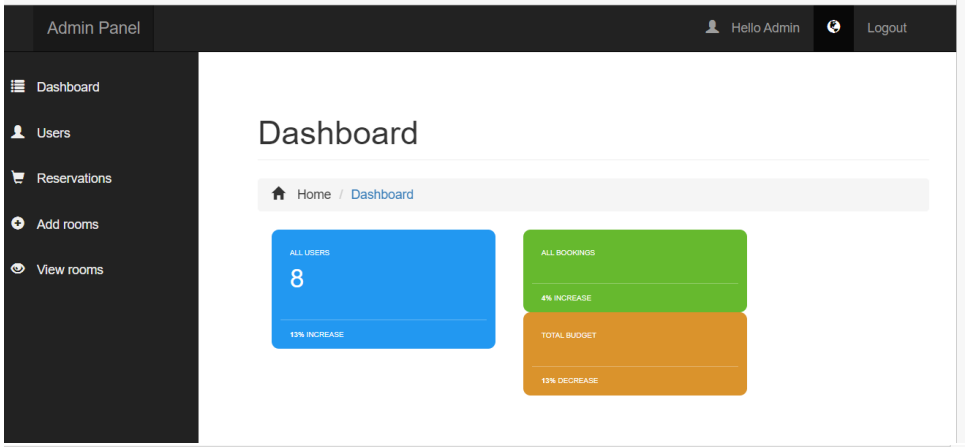
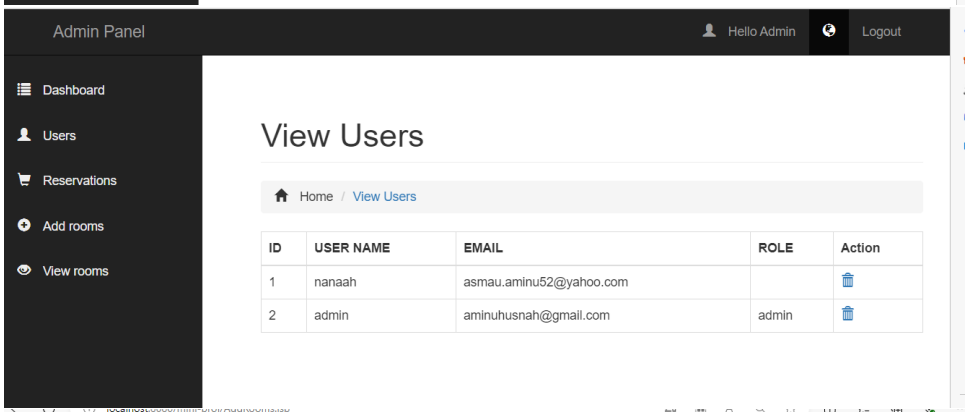
Import favourites
Amazon.co.uk – On...
Booking.com
Gmail
YouTube
Maps
Other favourites


Admin Panel
Hello Admin
Logout
Dashboard
Users
Reservations
Add rooms
View rooms
Dashboard
Home / Dashboard
ALL USERS
8
13% INCREASE
ALL BOOKINGS
4% INCREASE
TOTAL BUDGET
13% DECREASE


Admin Panel
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Reservations
Add rooms
View rooms
View Users
Home / View Users
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aminuhusnah@gmail.com
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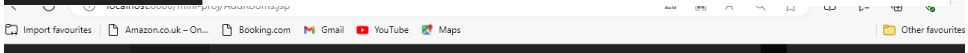
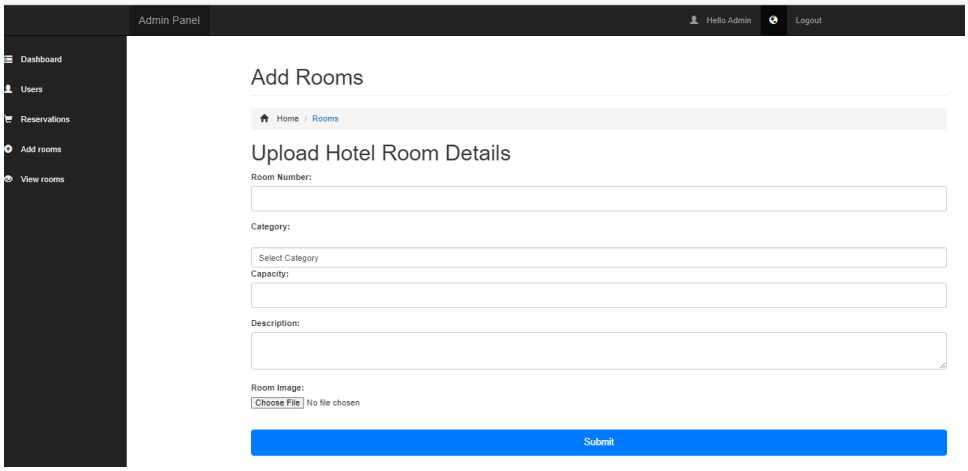
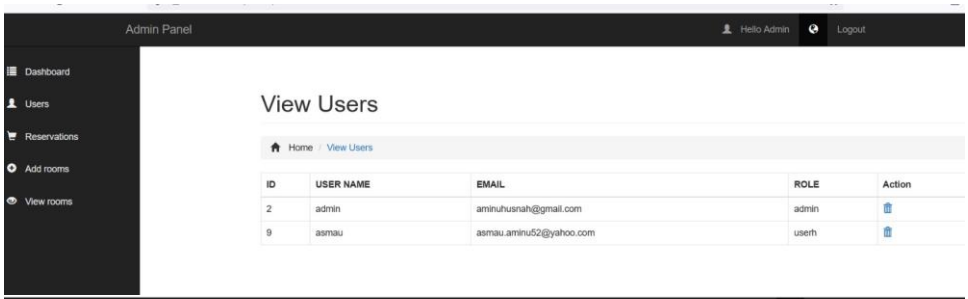

Import favourites
Amazon.co.uk – On...
Booking.com
Gmail
YouTube
Maps
Other favourites


Admin Panel
Hello Admin
Logout
Dashboard
Users
Reservations
Add rooms
View rooms
Add Rooms
Home / Rooms
Upload Hotel Room Details
Room Number:
Category:
Select Category
Capacity:
Description:
Room Image:
Choose File
No file chosen
Submit


Admin Panel
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Add rooms
View rooms
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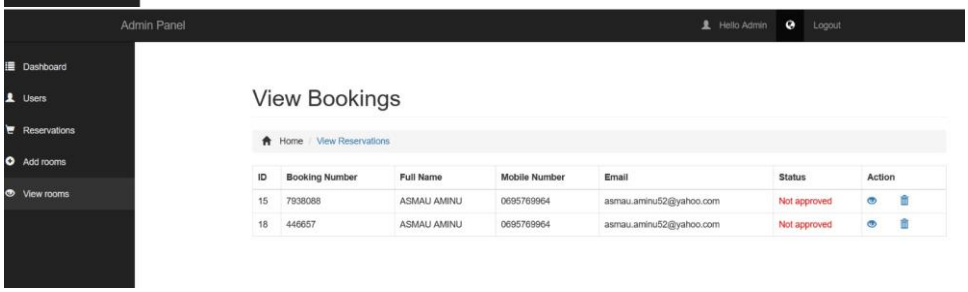
Admin Panel
Hello Admin
Logout
Dashboard
Users
Reservations
Add rooms
View rooms
View Bookings
Home / View Reservations
ID
Booking Number
Full Name
Mobile Number
Email
Status
Action
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Not approved
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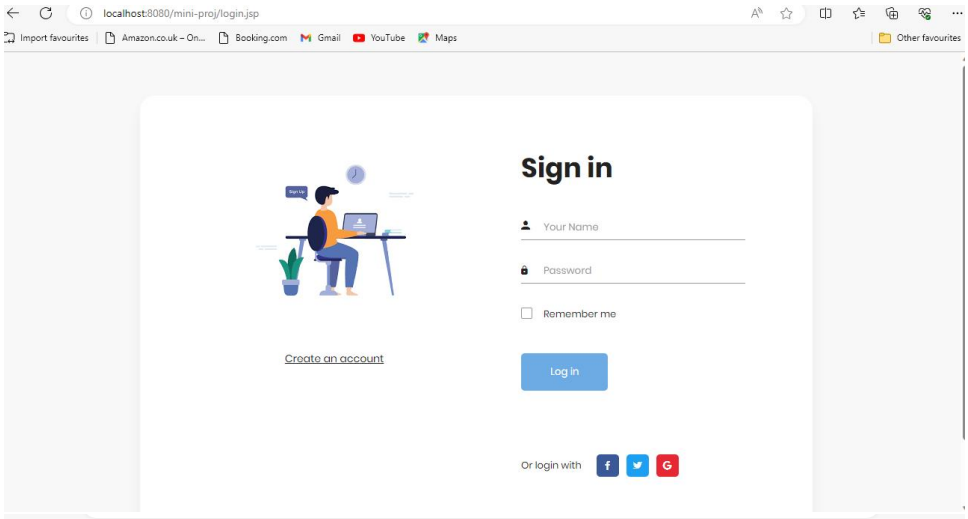
Not approved

USER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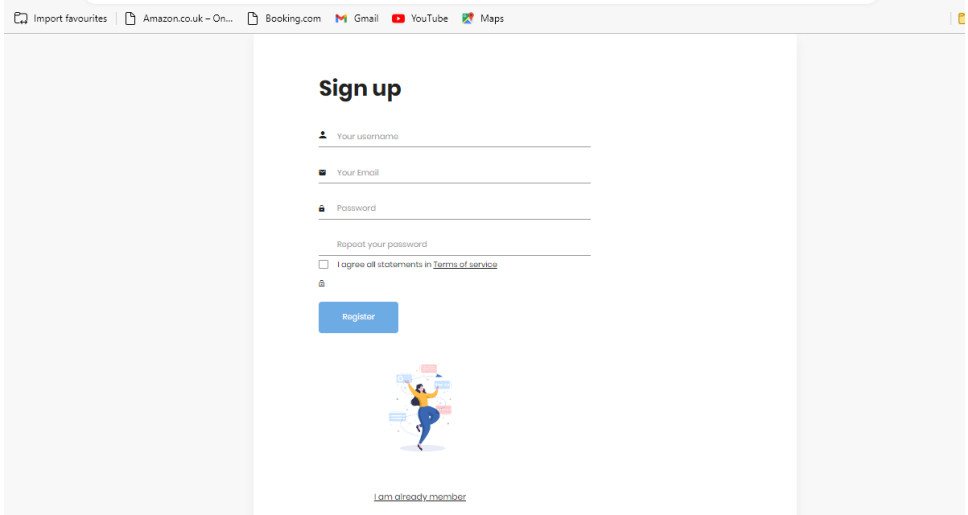
Import favourites
Amazon.co.uk – On...
Booking.com
Gmail
YouTube
Maps
Other favourites
Sign in
Your Name
Password
Remember me
Create an account
Log in
Or login with


Import favourites
Amazon.co.uk – On...
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Sign up
Your username
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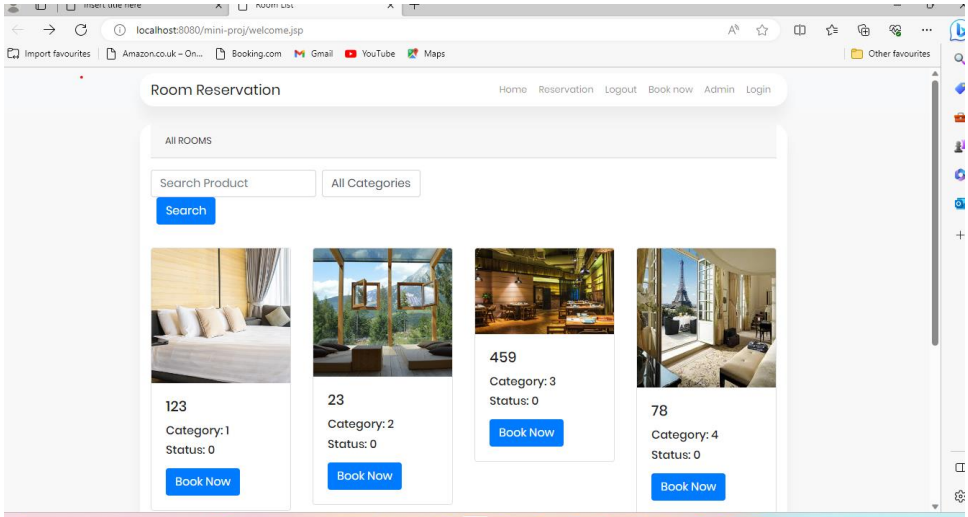
Repeat your password
I agree all statements in Terms of service
Register
I am already member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Room Reservation
Home
Reservation
Logout
Book now
Admin
Login
All ROOMS
Search Product
All Categories
Search
123
Category: 1
Status: 0
Book Now
23
Category: 2
Status: 0
Book Now
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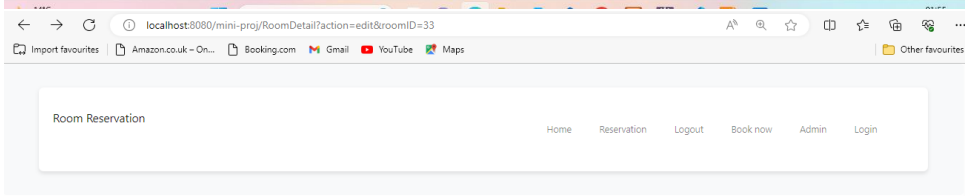
Category: 3
Status: 0
Book Now
78
Category: 4
Status: 0
Book Now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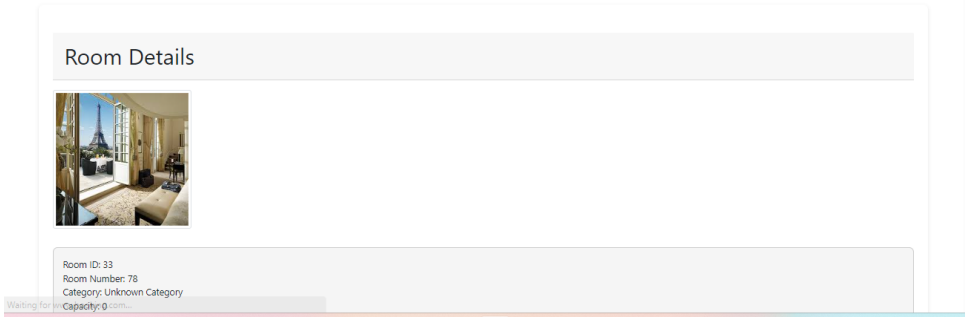
Room Reservation
Home
Reservation
Logout
Book now
Admin
Login


Room Details
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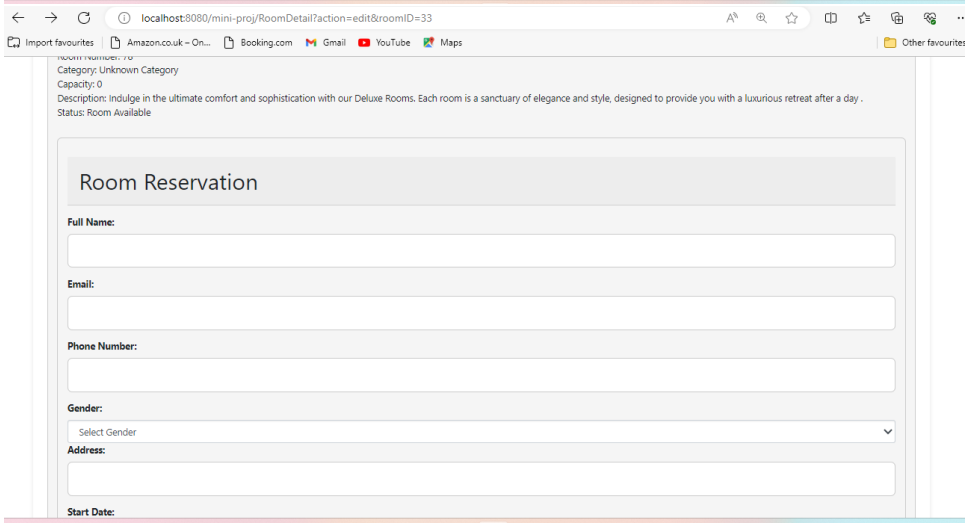
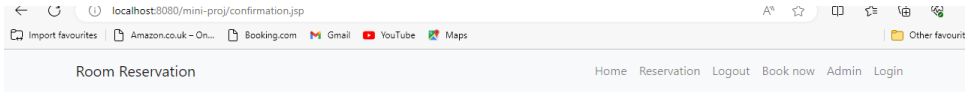
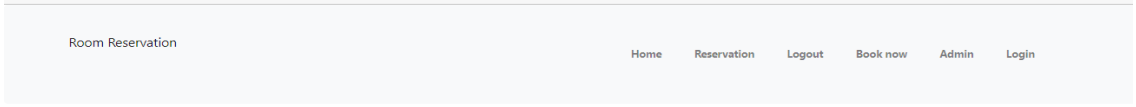
Room Number: 78
Category: Unknown Category
Capacity: 0


localhost:8080/mini-proj/RoomDetail?action=edit&roomID=33
Category: Unknown Category
Capacity: 0
Description: Indulge in the ultimate comfort and sophistication with our Deluxe Rooms. Each room is a sanctuary of elegance and style, designed to provide you with a luxurious retreat after a day .
Status: Room Available
Room Reservation
Full Name:
Email:
Phone Number:
Gender:
Select Gender
Address:
Start Date:



Reservation Confirmation

Reservation is successful! Reservation details



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17	8302287	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-30	2023-09-01	Not approved	
16	7748122	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-31	2023-09-03	Not approved	
15	7938088	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-22	2023-08-30	Not approved	
14	6285048	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-30	2023-08-31	Not approved	
13	4603485	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-26	2023-08-31	Not approved	
12	8819429	AMINU AISHATU	asmau.aminu@eleve.isep.fr	2023-08-29	2023-08-31	Not approved	
11	4968081	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-29	2023-08-31	Not approved	
10	2606031	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-29	2023-08-31	Not approved	
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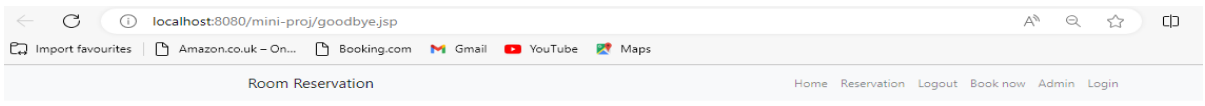
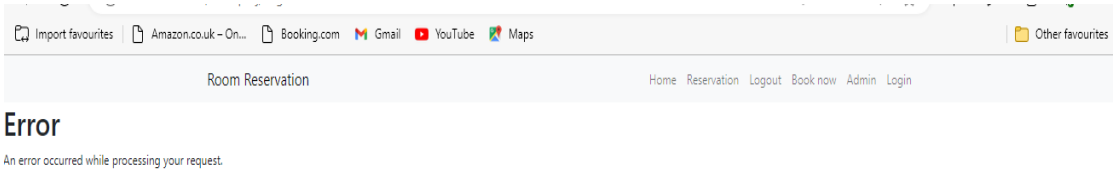


Goodbye!

You have been successfully logged out.

Log In Again



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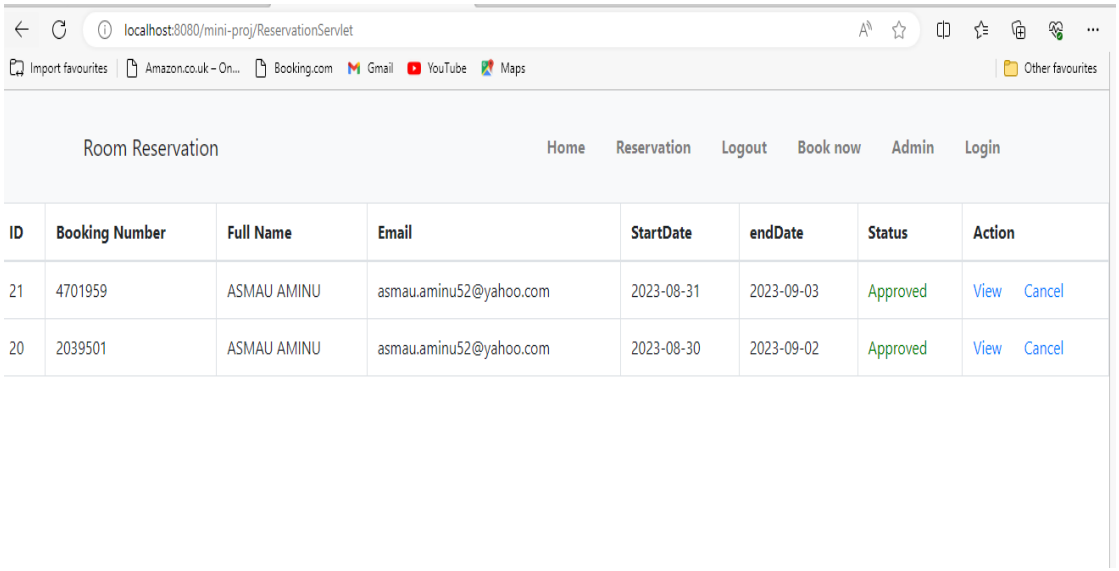

ID	Booking Number	Full Name	Email	StartDate	endDate	Status	Action
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20	2039501	ASMAU AMINU	asmau.aminu52@yahoo.com	2023-08-30	2023-09-02	Approved	View Cancel

THANK YOU.