

# Mini Project Presentation

## Group 1 – S5 CSBS

Hotel Reservation System + Travel Planner



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# Introduction



This project aspires to create an efficient platform for users by combining a Hotel Reservation System with a Personalized Travel Planner.



Emphasis lies in providing users with a streamlined process for booking rooms in a hotel, detailed information about accommodation options, and the convenience of personalized travel plans.



This project addresses the evolving needs of travelers by leveraging technology to simplify their experience.

# Problem Statement

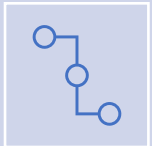


Users face a challenge navigating separate platforms for reservations and planning, while hotels grapple with resource optimization and personalized service delivery, resulting in limited insights and inefficiencies in travel management.

# Objectives



Cohesive Hotel Reservation System coupled with a Personalized Travel Planner

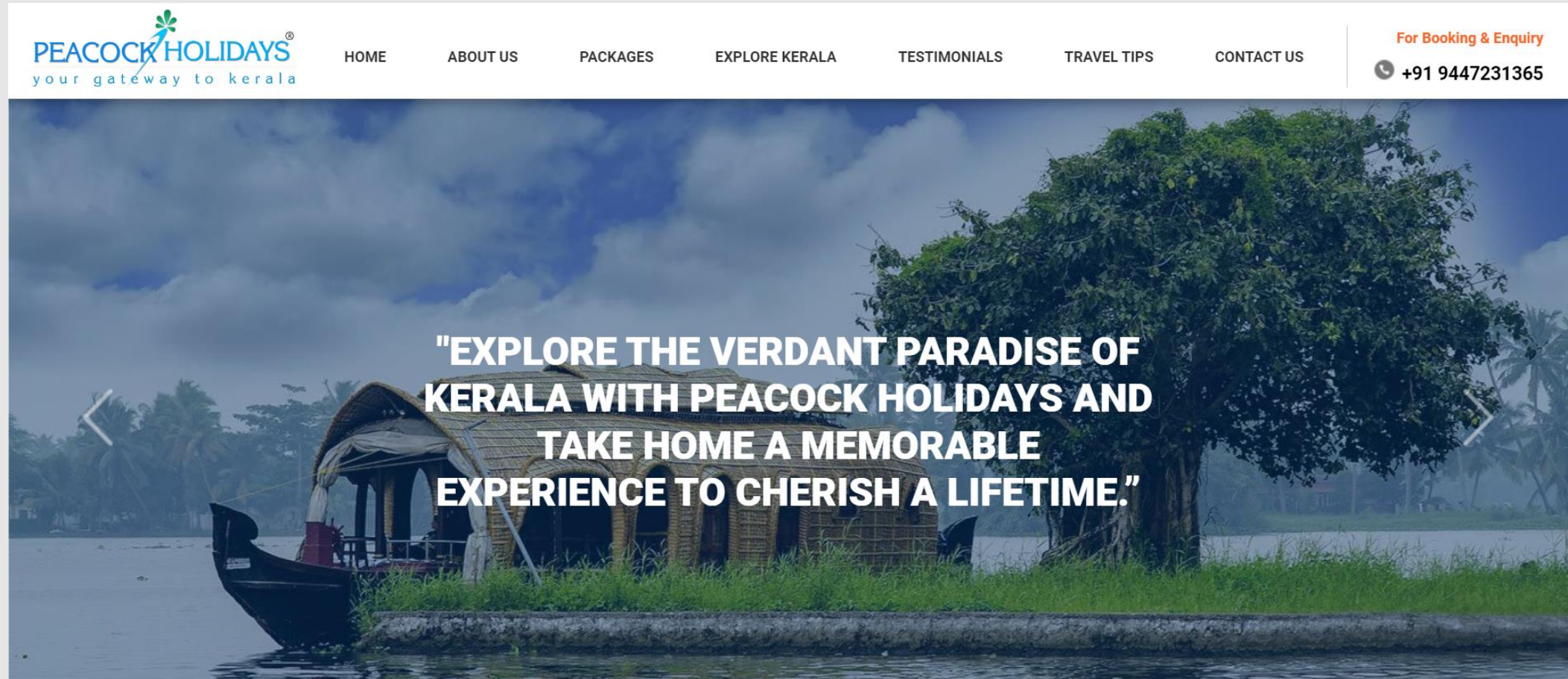


Streamline the booking process



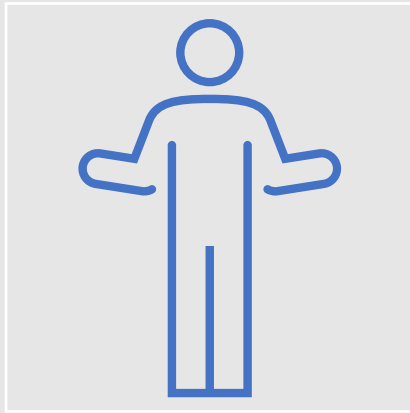
Provide comprehensive information, personalized recommendations, and efficient travel management

# Motivation



# Scope & Applications

## Application: In the Travel & Hospitality Industry



Can be used by travelers to seamlessly plan and book their trips, ensuring a personalized and stress-free travel experience.



Can be used by hotels by integrating into their existing hospitality technology solutions, adding value to their offerings.

# Challenges



User Input Errors



User Internet Connectivity Issues



Payment Processing Issues from Customer's Bank



# Literature Review

[1]H.-S. Chiang and T.-C. Huang, “User-adapted travel planning system for personalized schedule recommendation,” Information Fusion, vol. 21, pp. 3–17, Jan. 2015, doi: <https://doi.org/10.1016/j.inffus.2013.05.011>.

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Problem: Planning comprehensive travel schedules which is personalized

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Methods: Novel algorithm, User-adapted interface, adjustable results, and feedback mechanism.

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Results: Statistically significant improvements in user satisfaction and intention.

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Advantages: Comprehensive consideration of user requirements, Emphasis on personalization and user flexibility, Automation for streamlined planning, Feedback mechanism for improved accuracy.

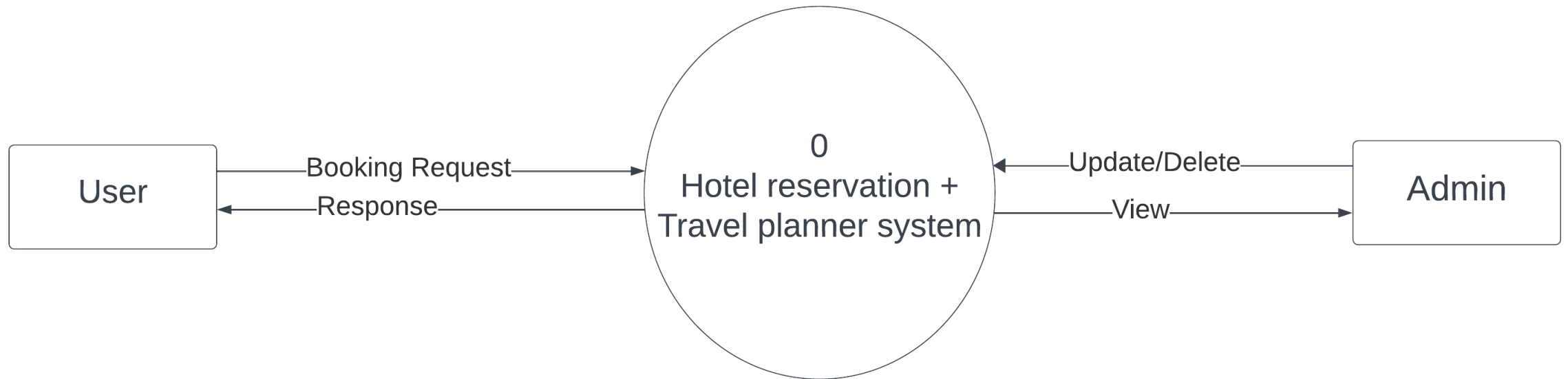
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Disadvantages: Lack of detailed algorithm information, Dependency on user feedback may vary, Limited insight into experimental scope, Challenges in generalizing better performance claims.

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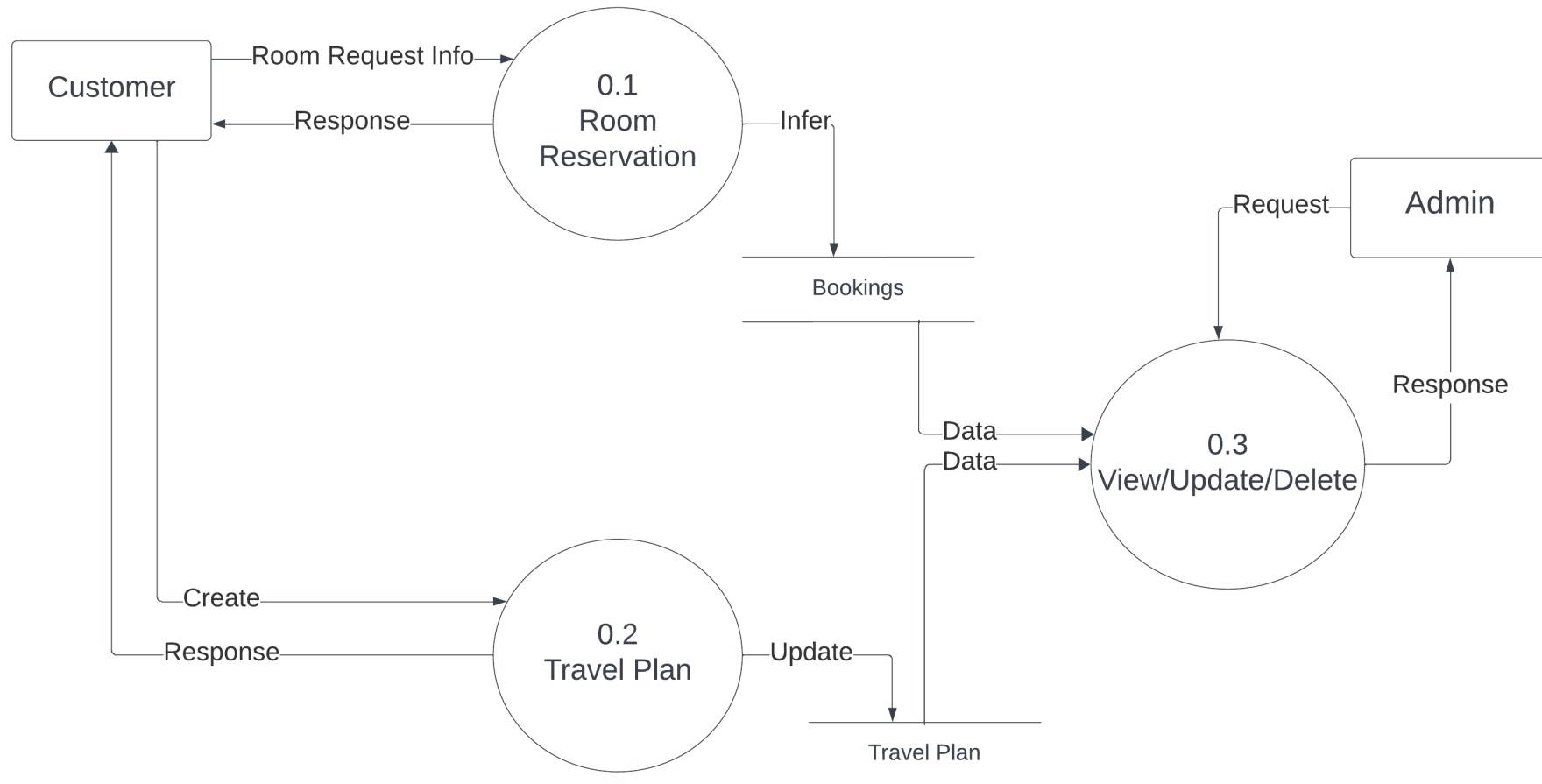
# DFD Diagram

## Level 0 DFD Diagram



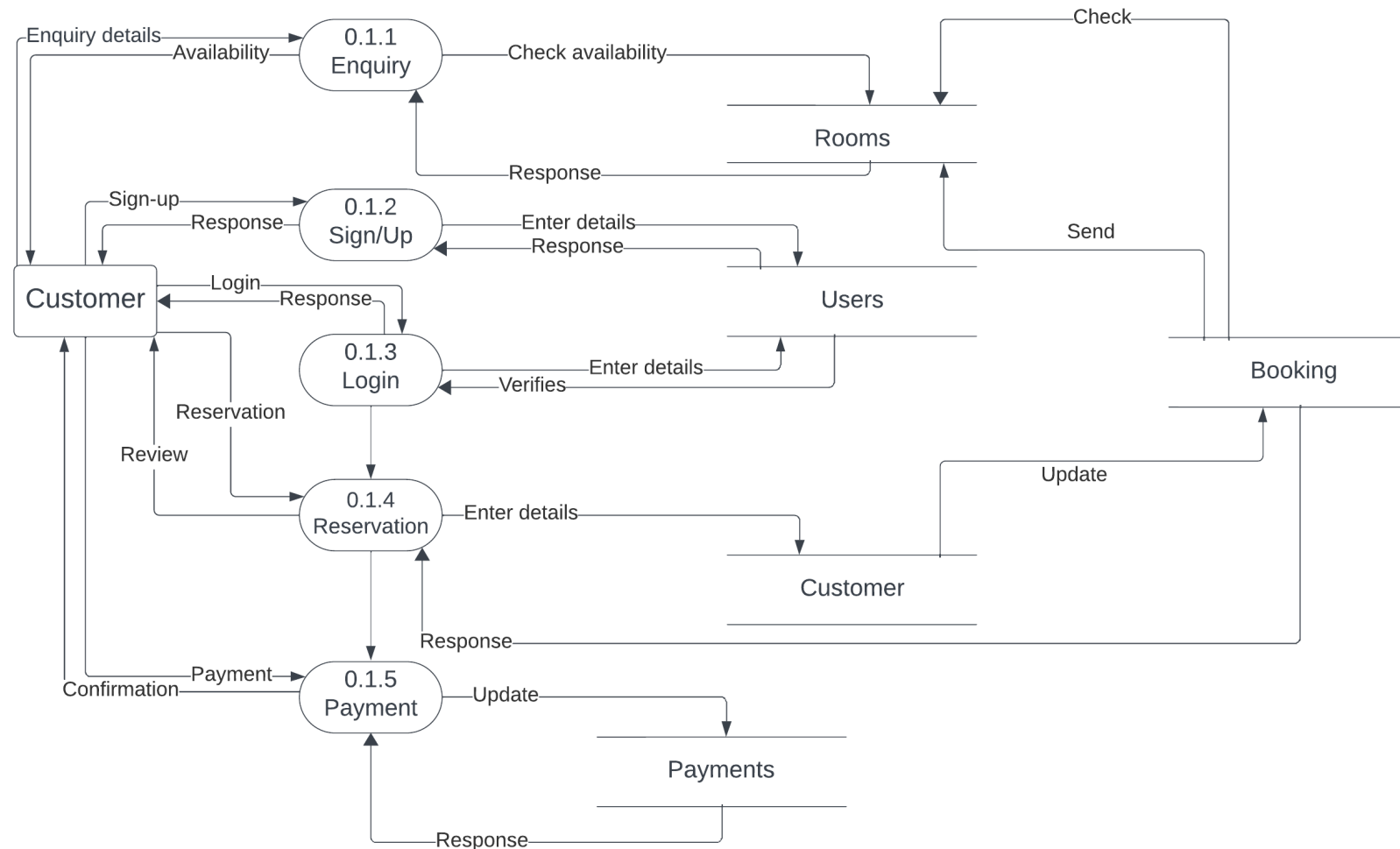
# DFD Diagram

Level 1 DFD Diagram



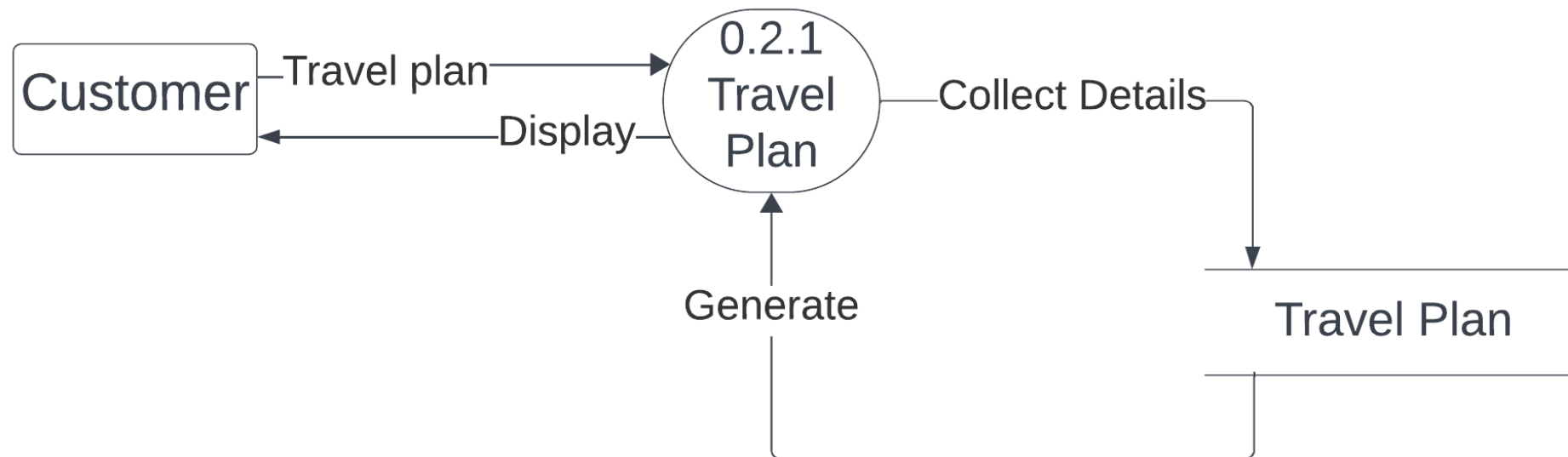
# DFD Diagram

Level 2 DFD Diagram



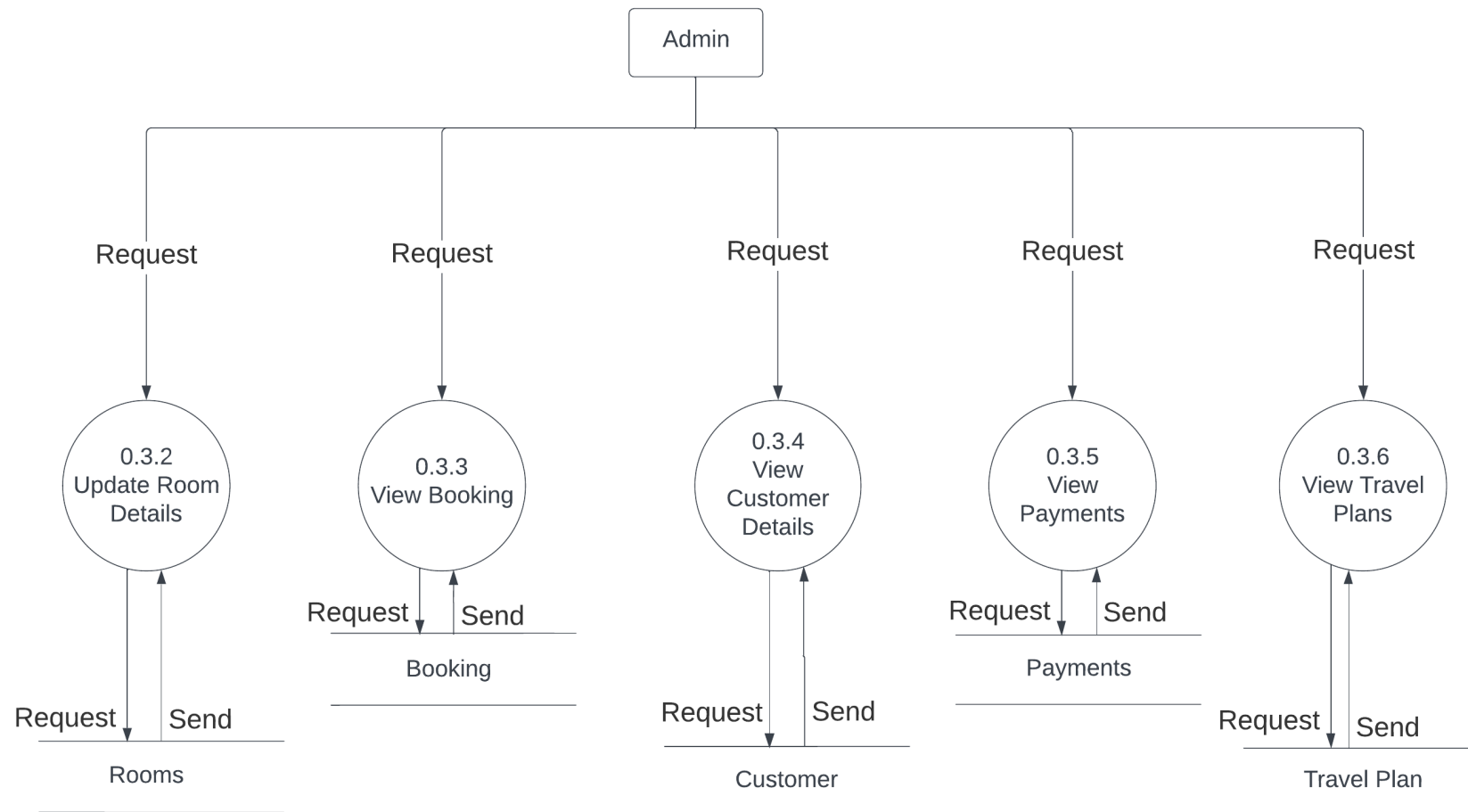
# DFD Diagram

## Level 2 DFD Diagram

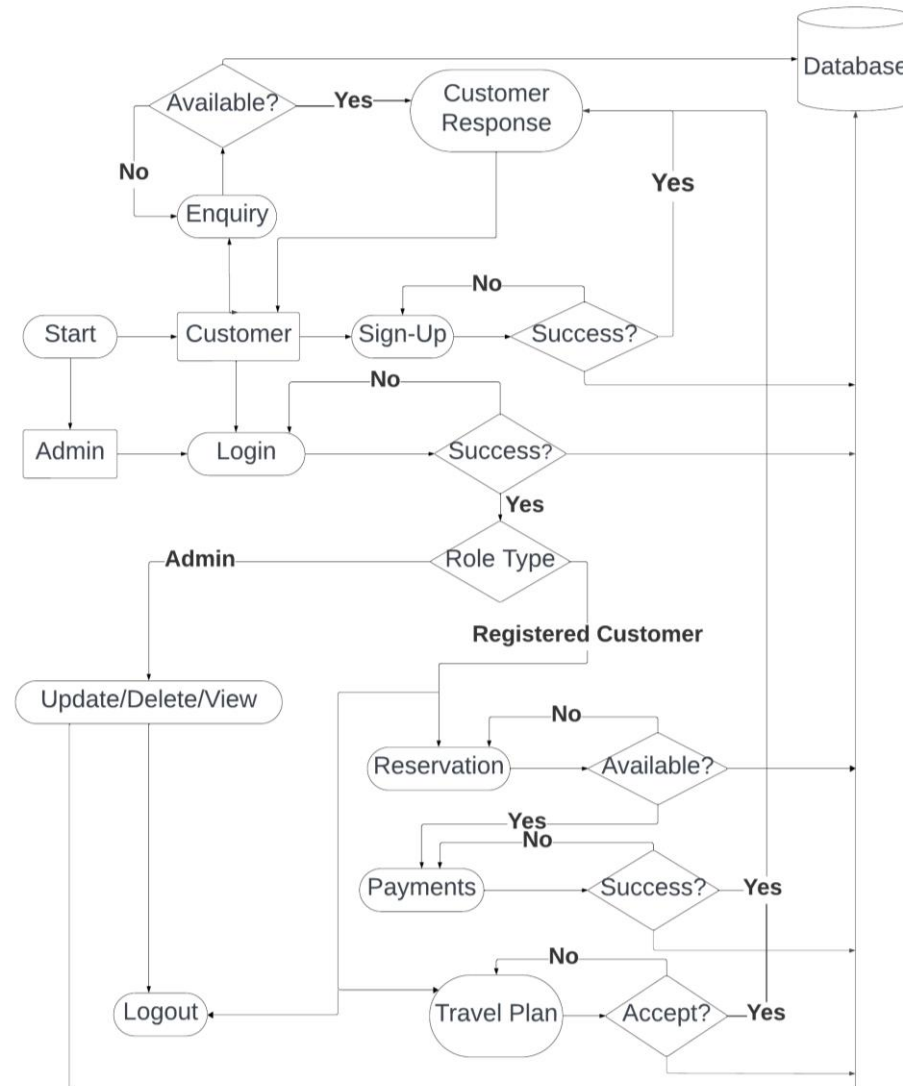


# DFD Diagram

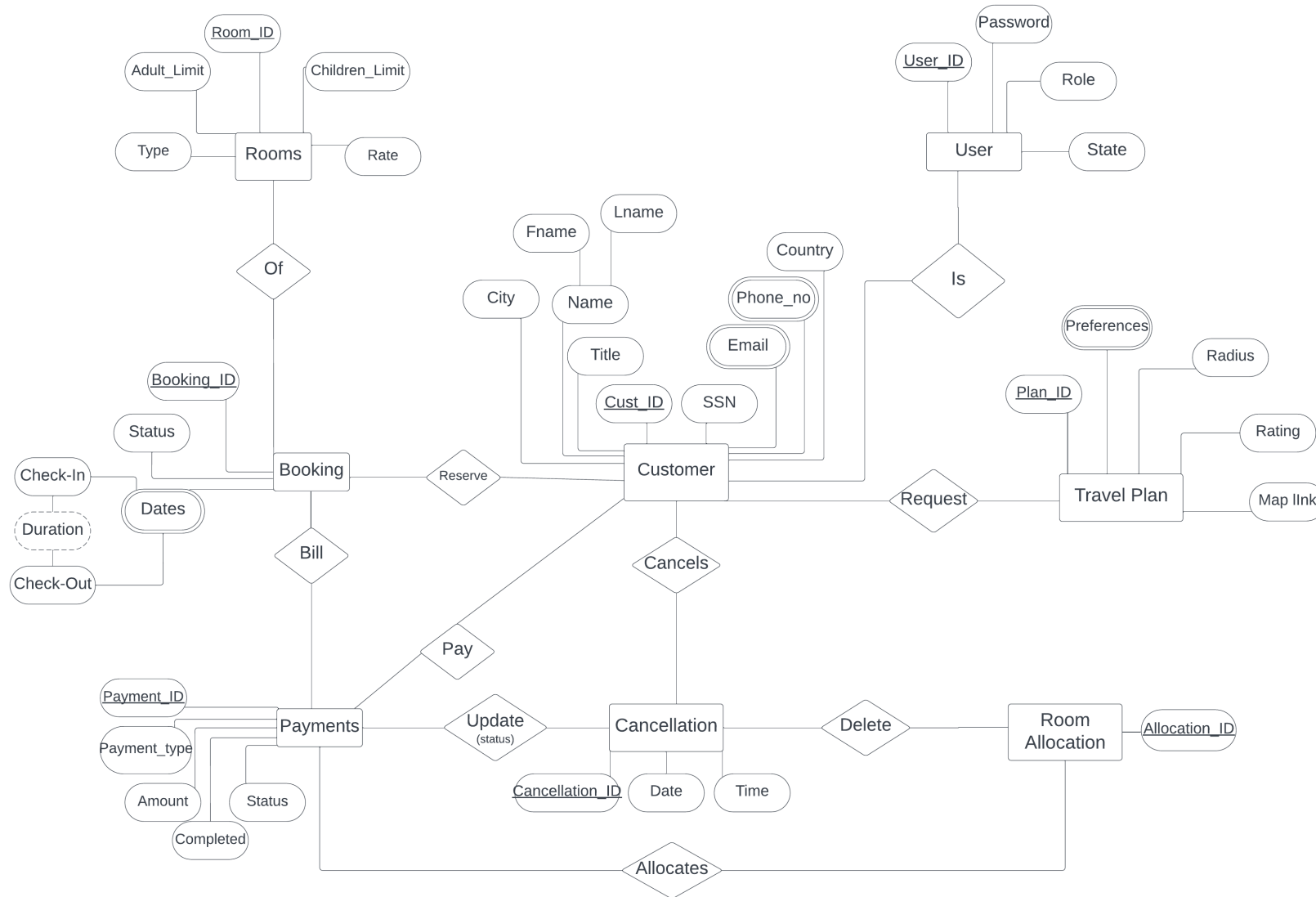
Level 2 DFD Diagram



# Block Diagram

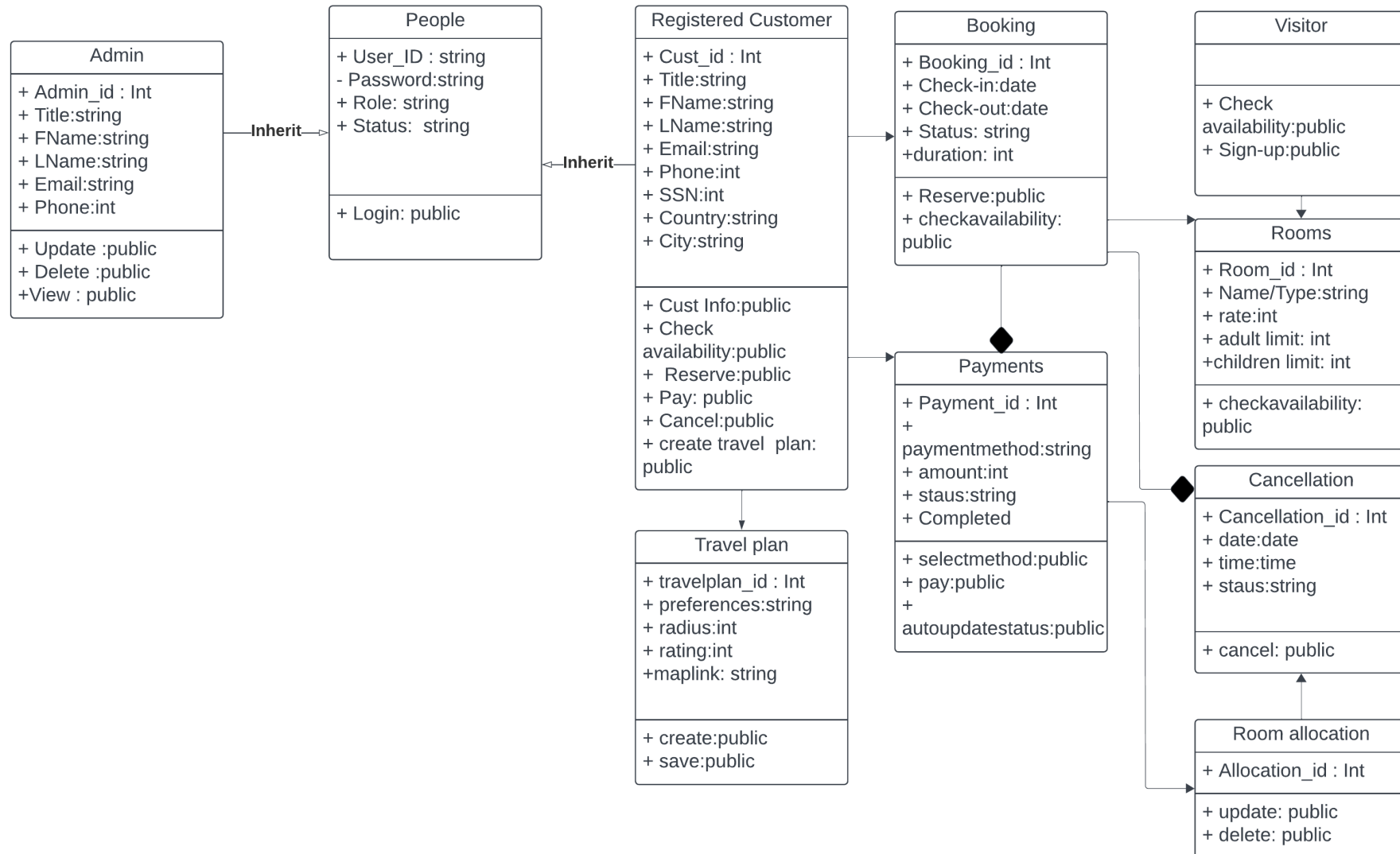


# Entity Relationship Diagram

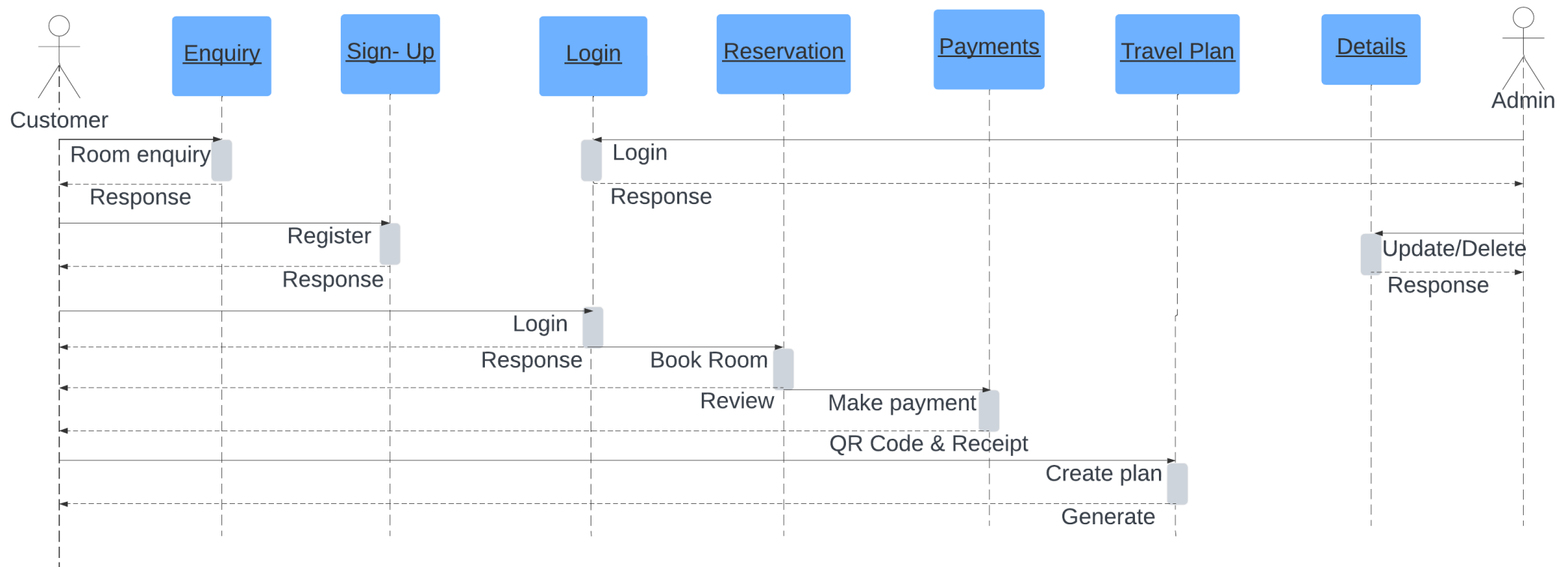




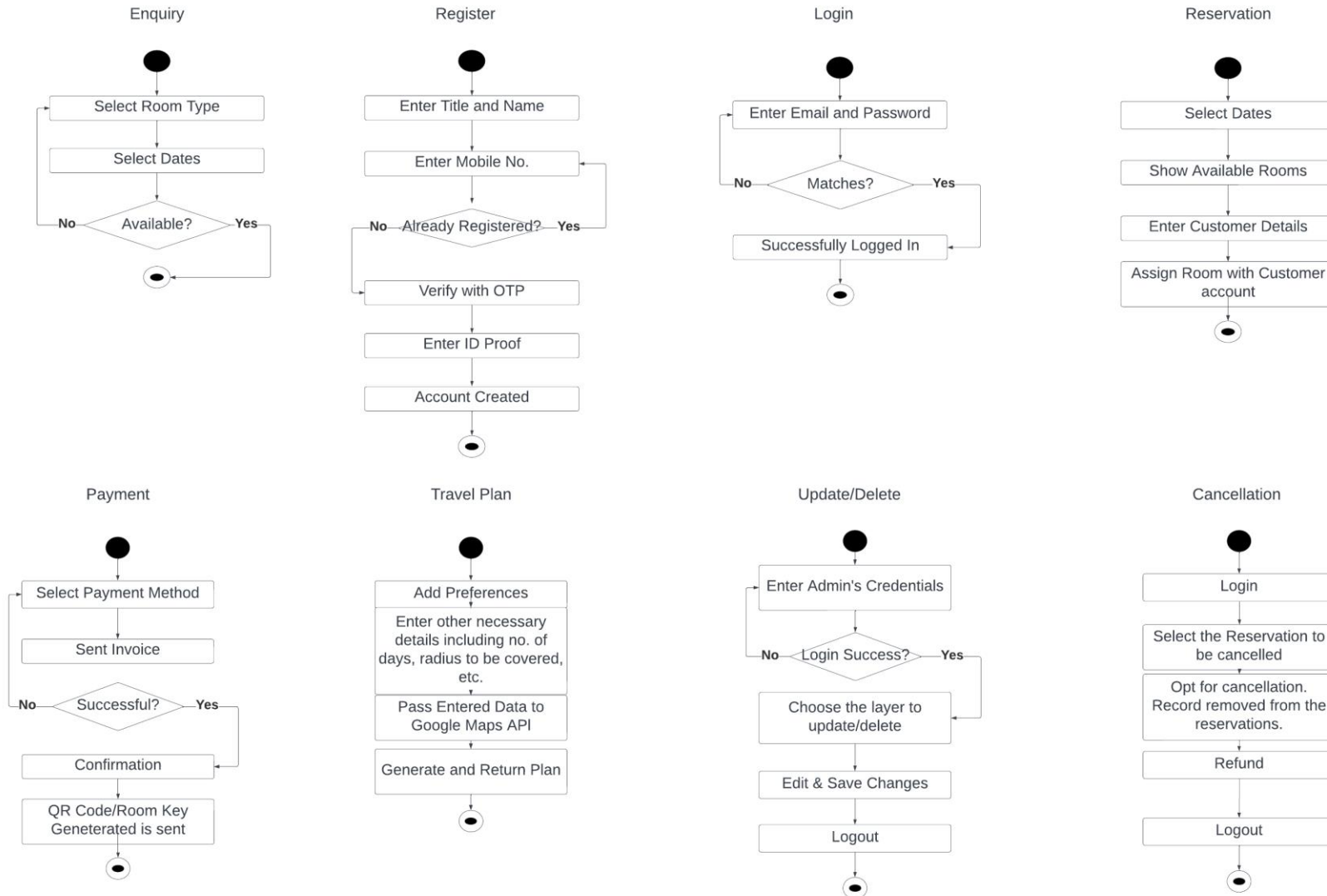
# Class Diagram



# Sequence Diagram



# Activity Diagram



# Modules



Enquiry



User authentication



Reservation



Payments



Travel Plan

# Functionalities



## Enquiry

Room Availability  
Checking



## User authentication

Sign-Up  
Login



## Reservation

Enquiry  
Room Booking  
Customer  
Information  
Collection



## Payments

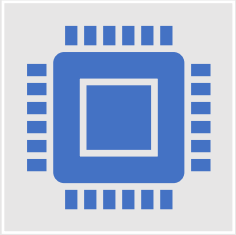
Method Choice  
Transaction  
Confirmation  
Cancellation of  
Booking



## Travel Plan

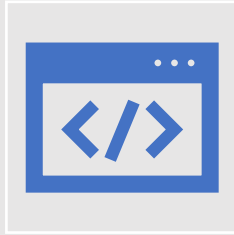
Preferences  
Collection  
Generator

# Implementation Details



## Hardware Requirements

Multi-core Processor (CPU)  
At least 8GB Memory (RAM)  
Stable Network  
Compatible Operating System



## Software Requirements

IDE : Visual Studio Code  
Mark-up Language: HTML & CSS  
Programming Language: JavaScript  
& Python  
Database: MySQL

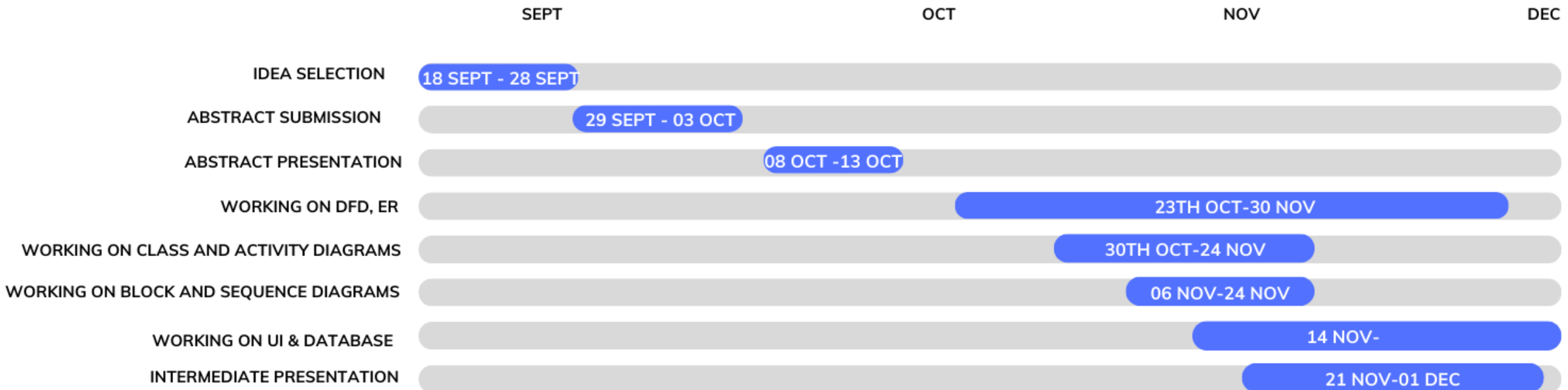


## Technological tools

Web Framework: Flask

# Project Timeline

## GANTT CHART



# Project Guide & Team Members

## Guide:

Dr. Neeba E A  
Associate Professor  
HOD of IT Dept  
RSET  
Kochi

## Members:

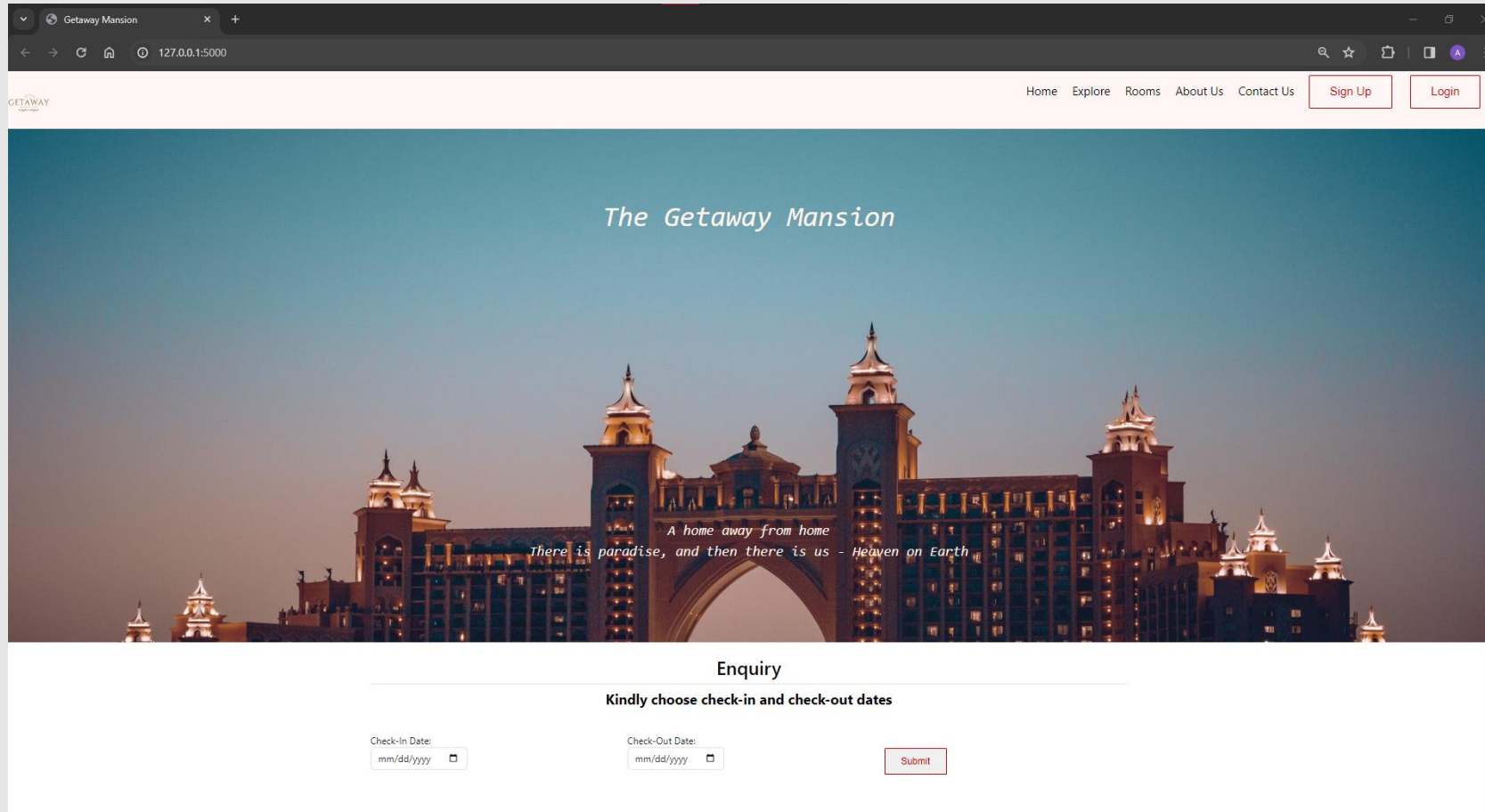
- ☐ Nedha Fathima
- ☐ David Vinoj Mathew
- ☐ Megha Rajesh
- ☐ Aadarsh Suresh

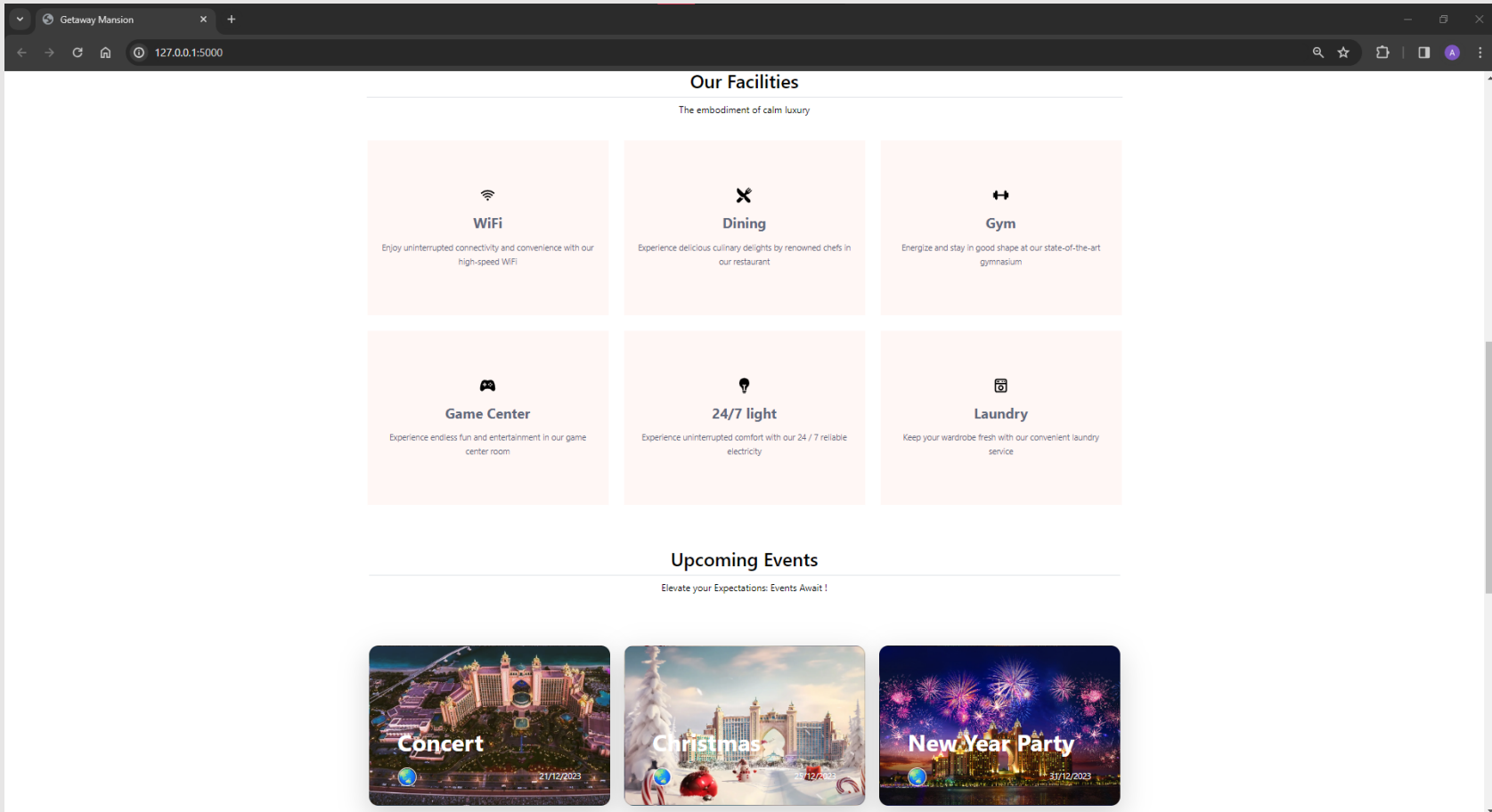


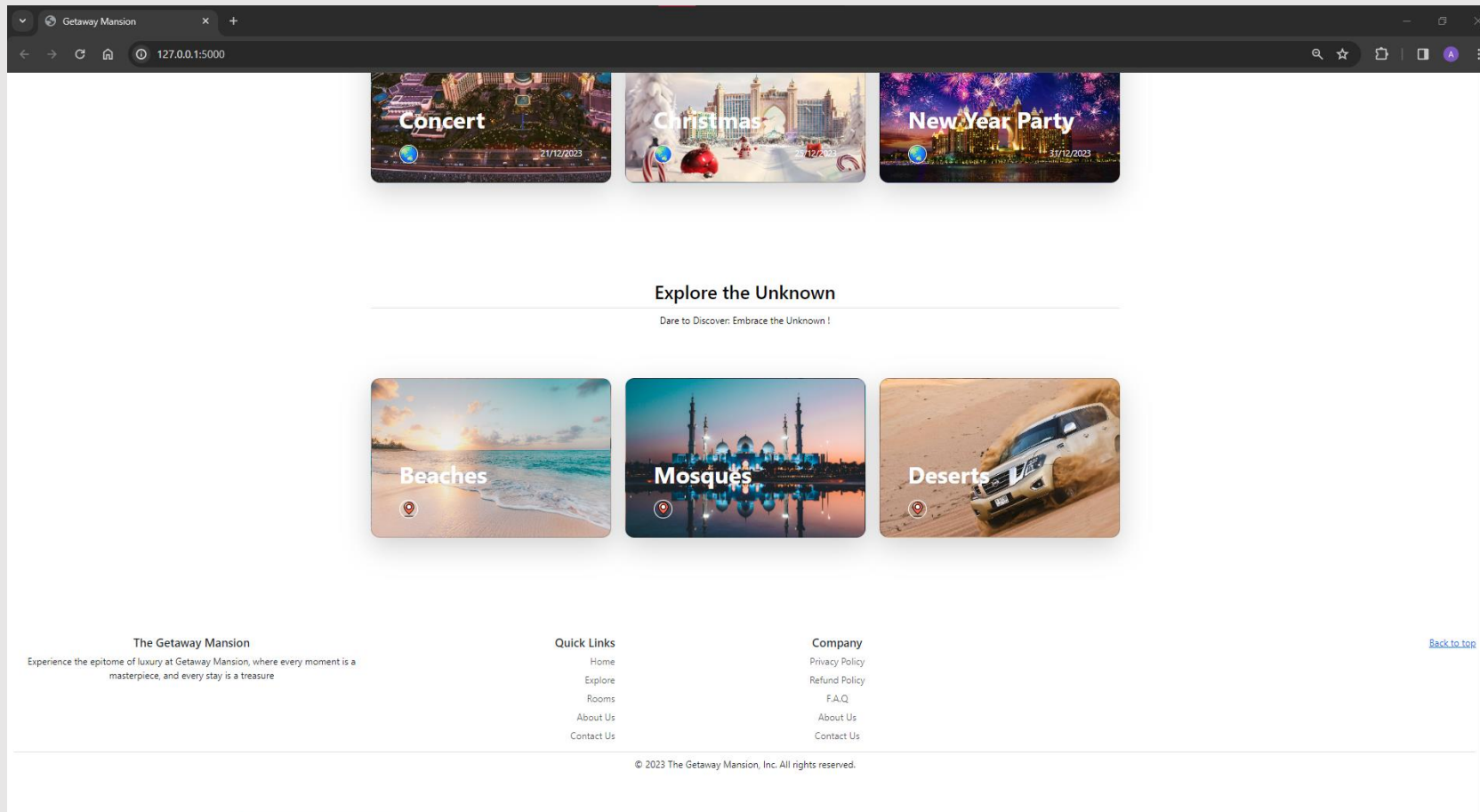
# SCREENSHOTS OF WORK DONE

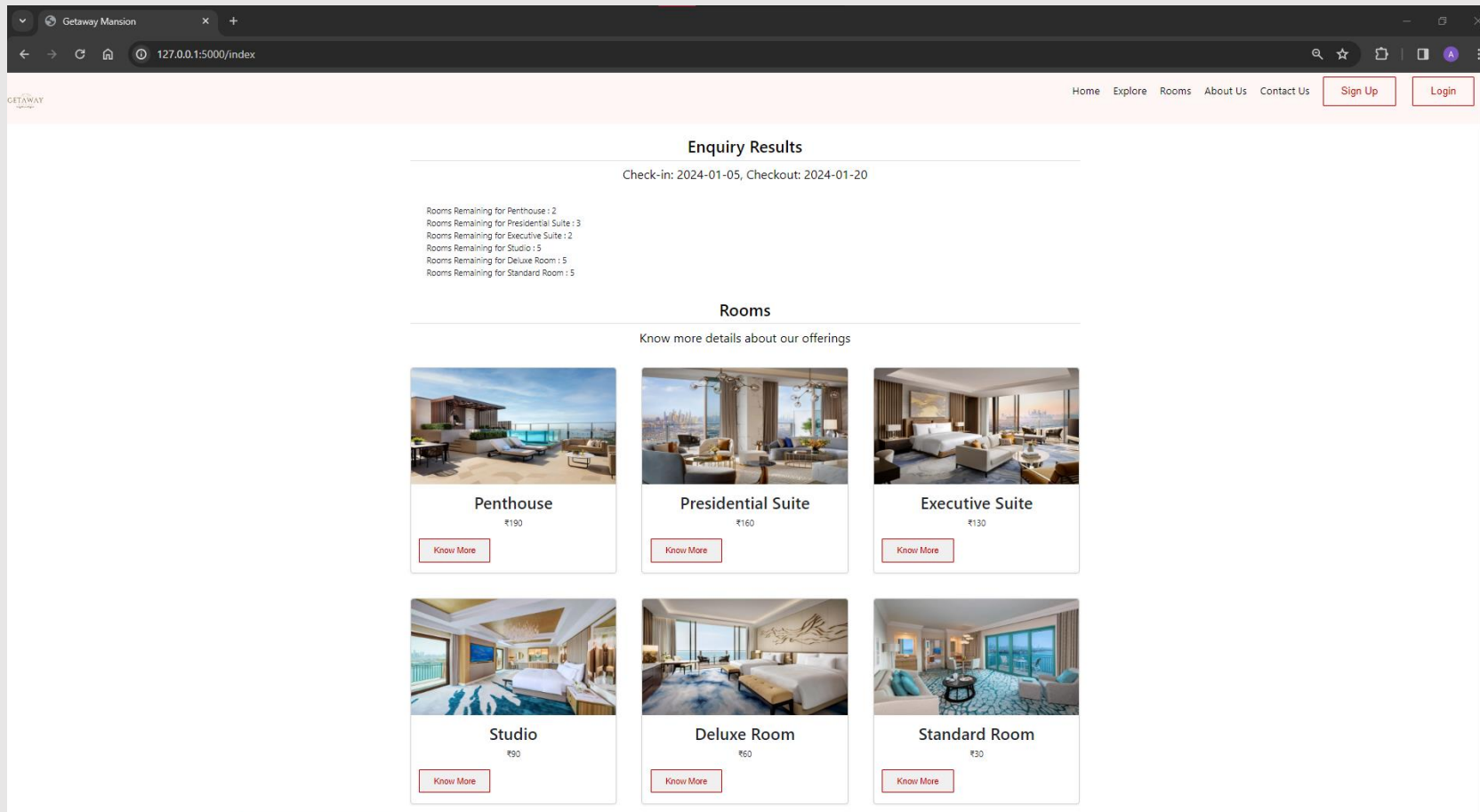


# INDEX



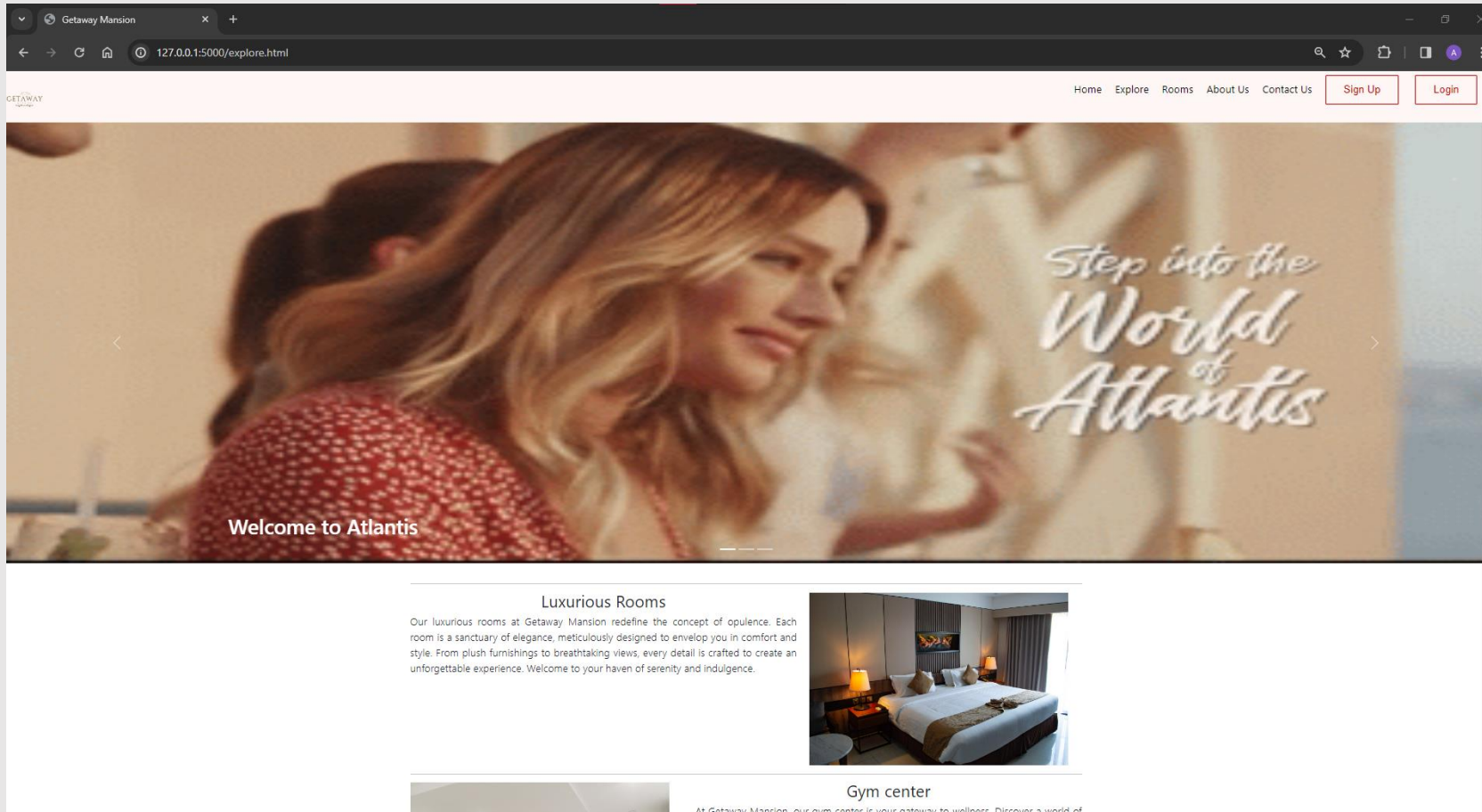


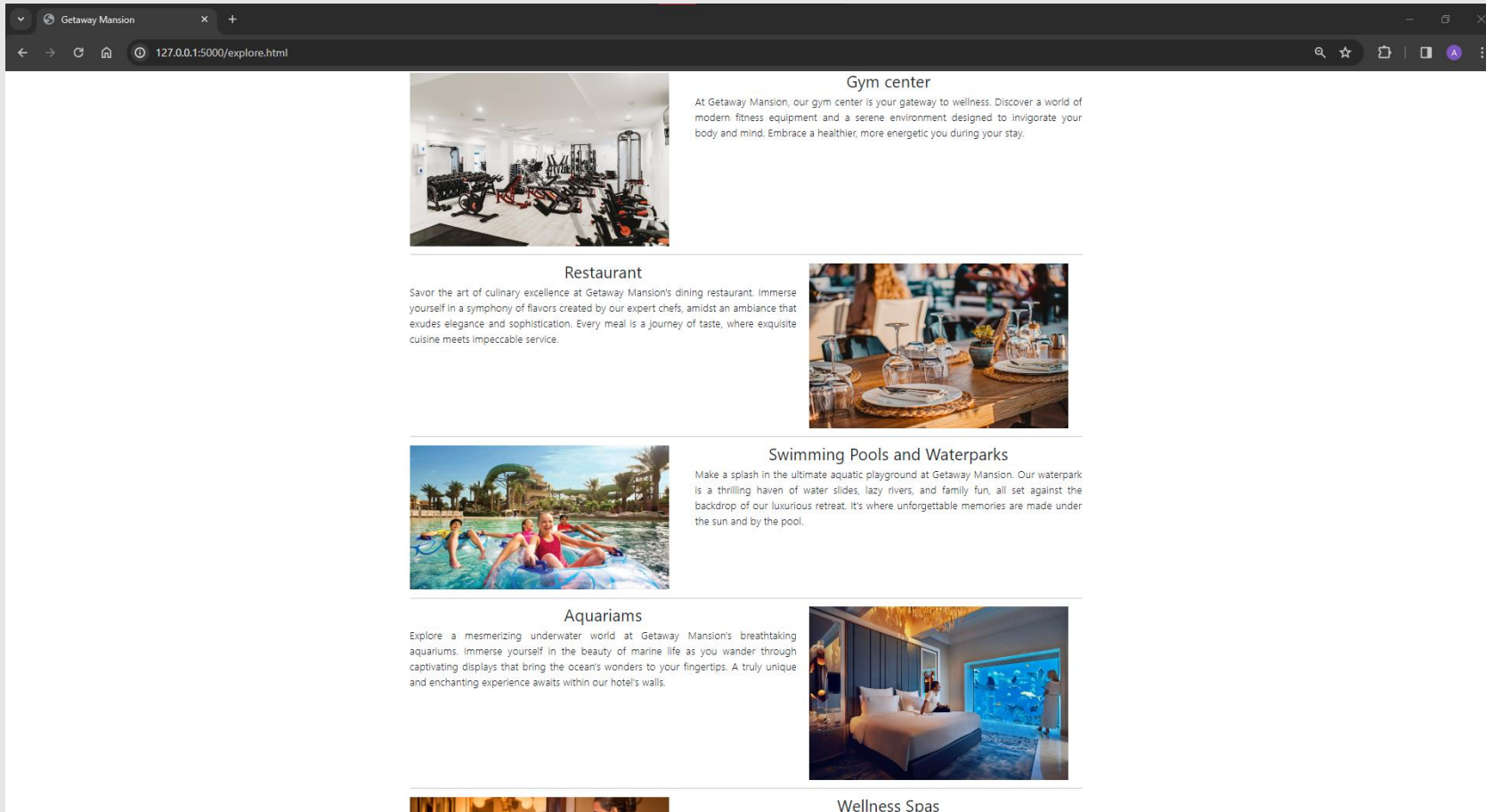


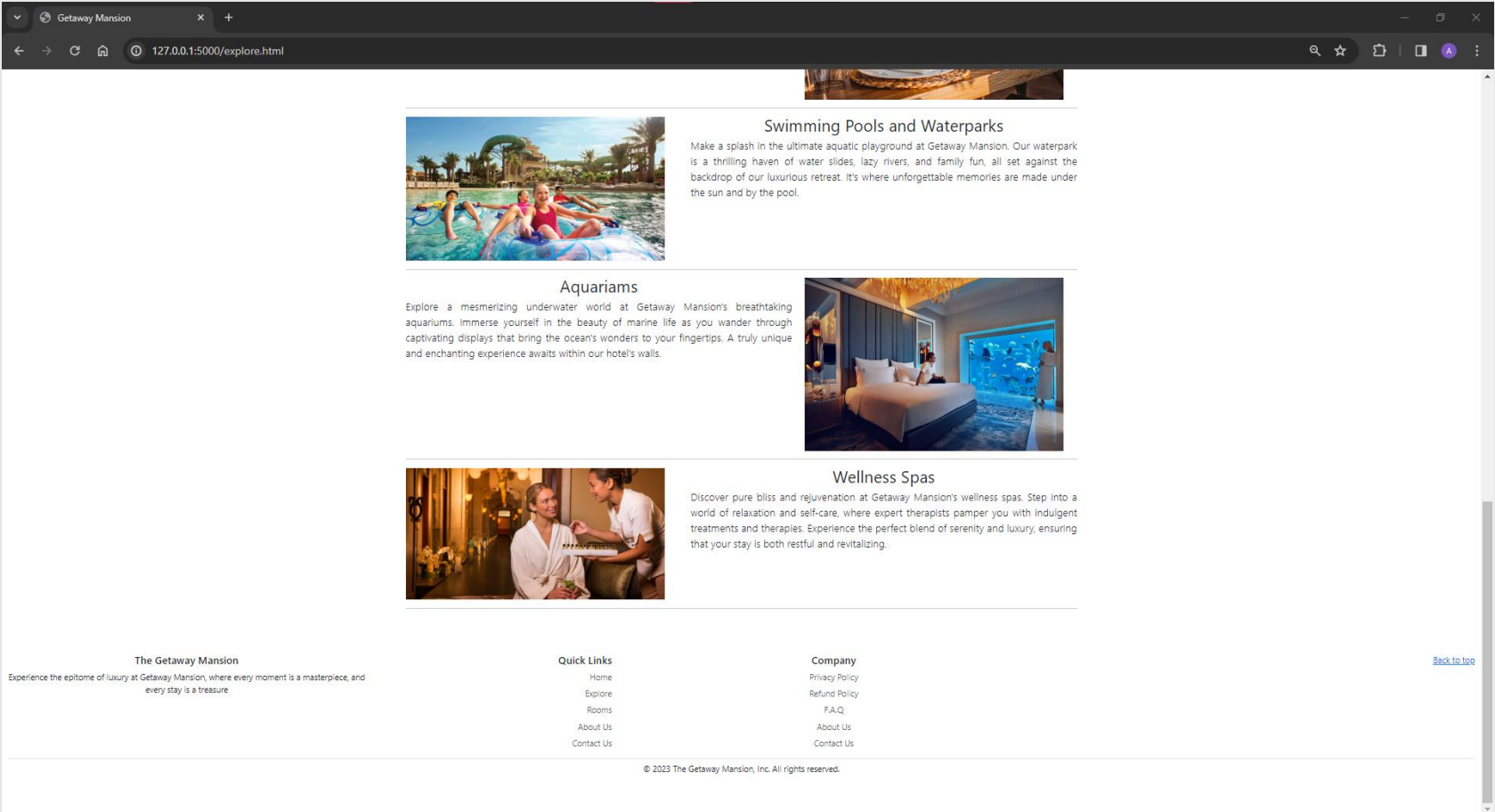




# EXPLORE

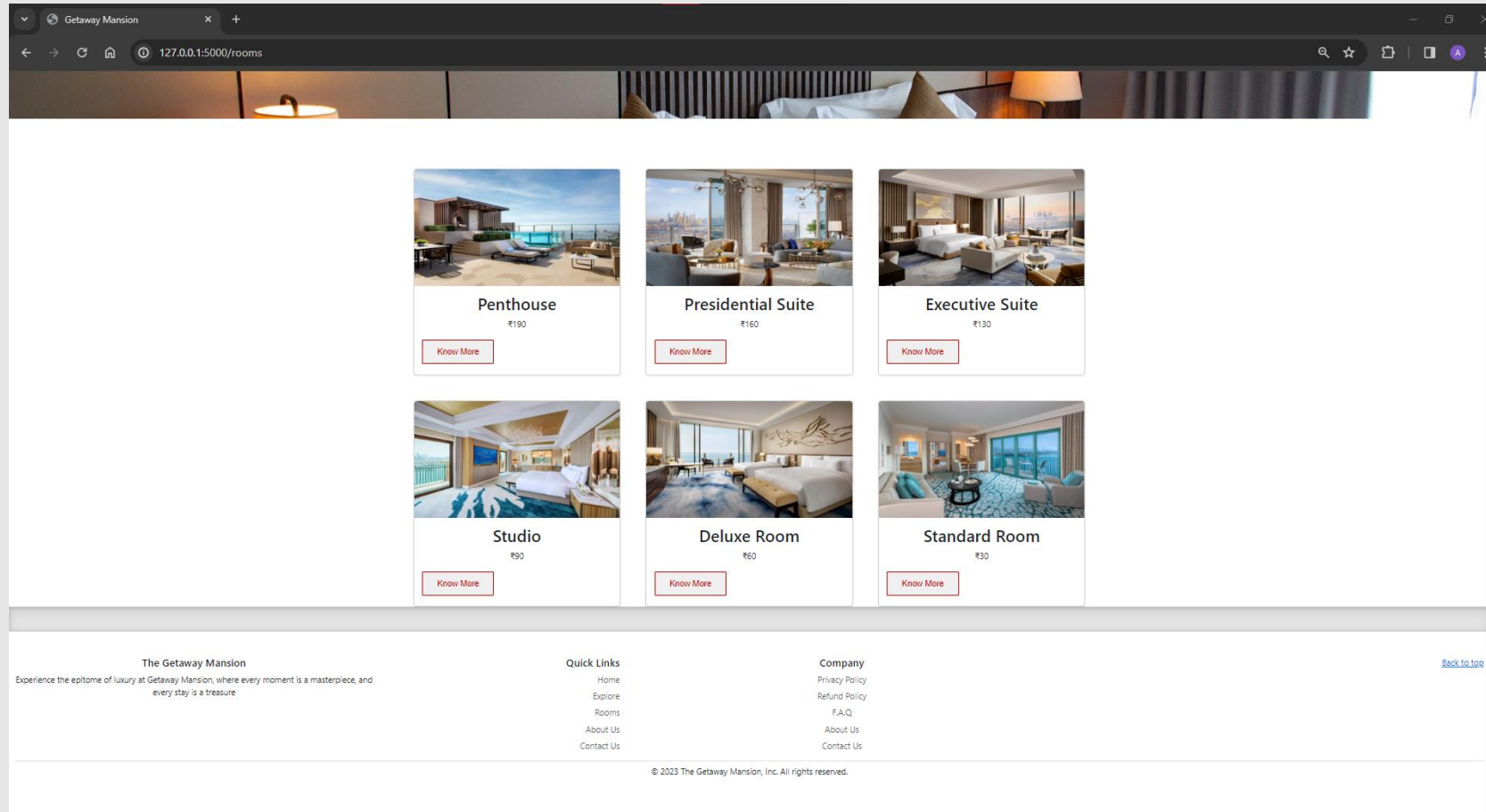








# ROOMS



# LOGIN

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## Login

Email

Enter email

Password

Enter password

Login

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# CUSTOMER SIGN UP

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Enter email

Password  
Enter password

Confirm Password  
Enter password again

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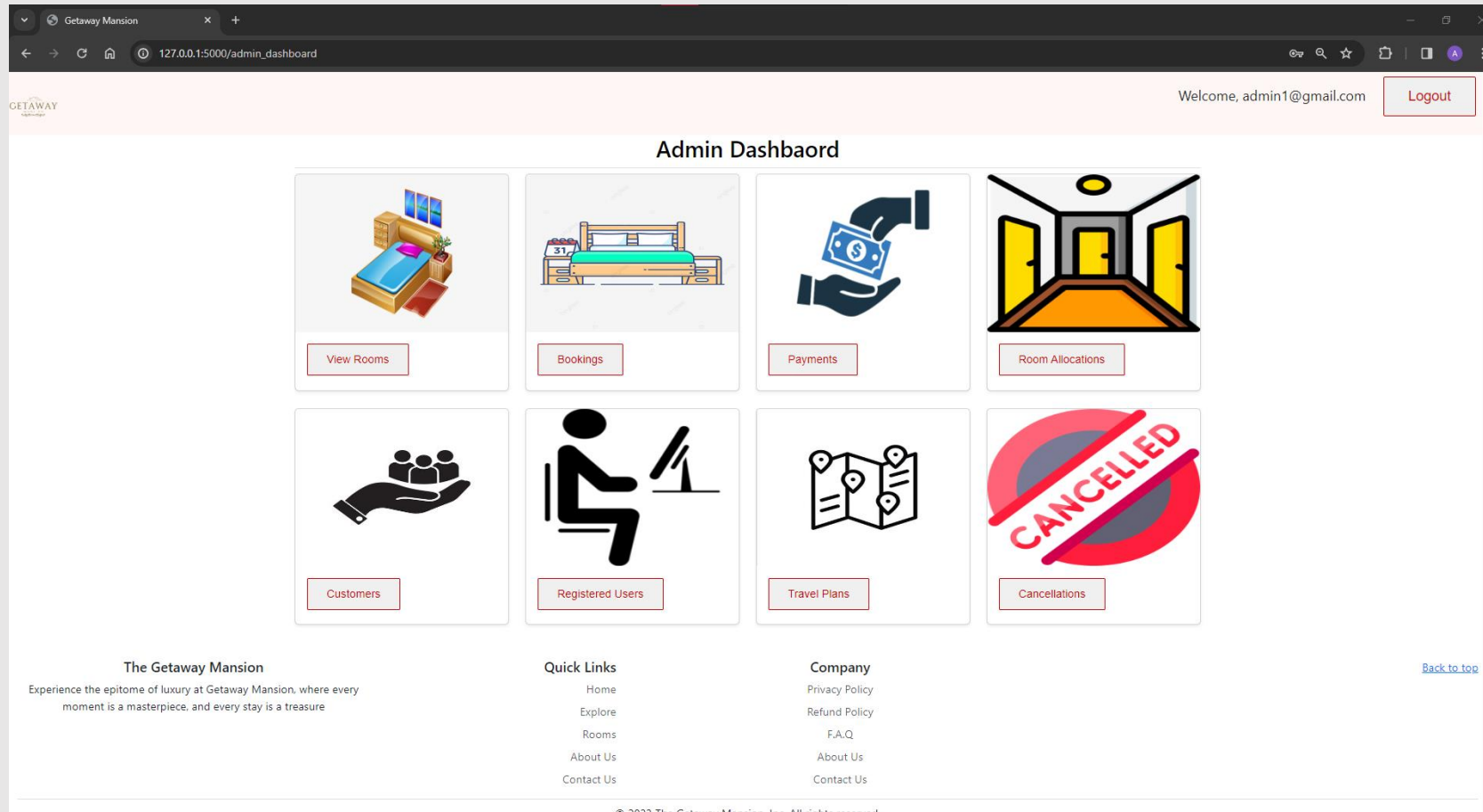
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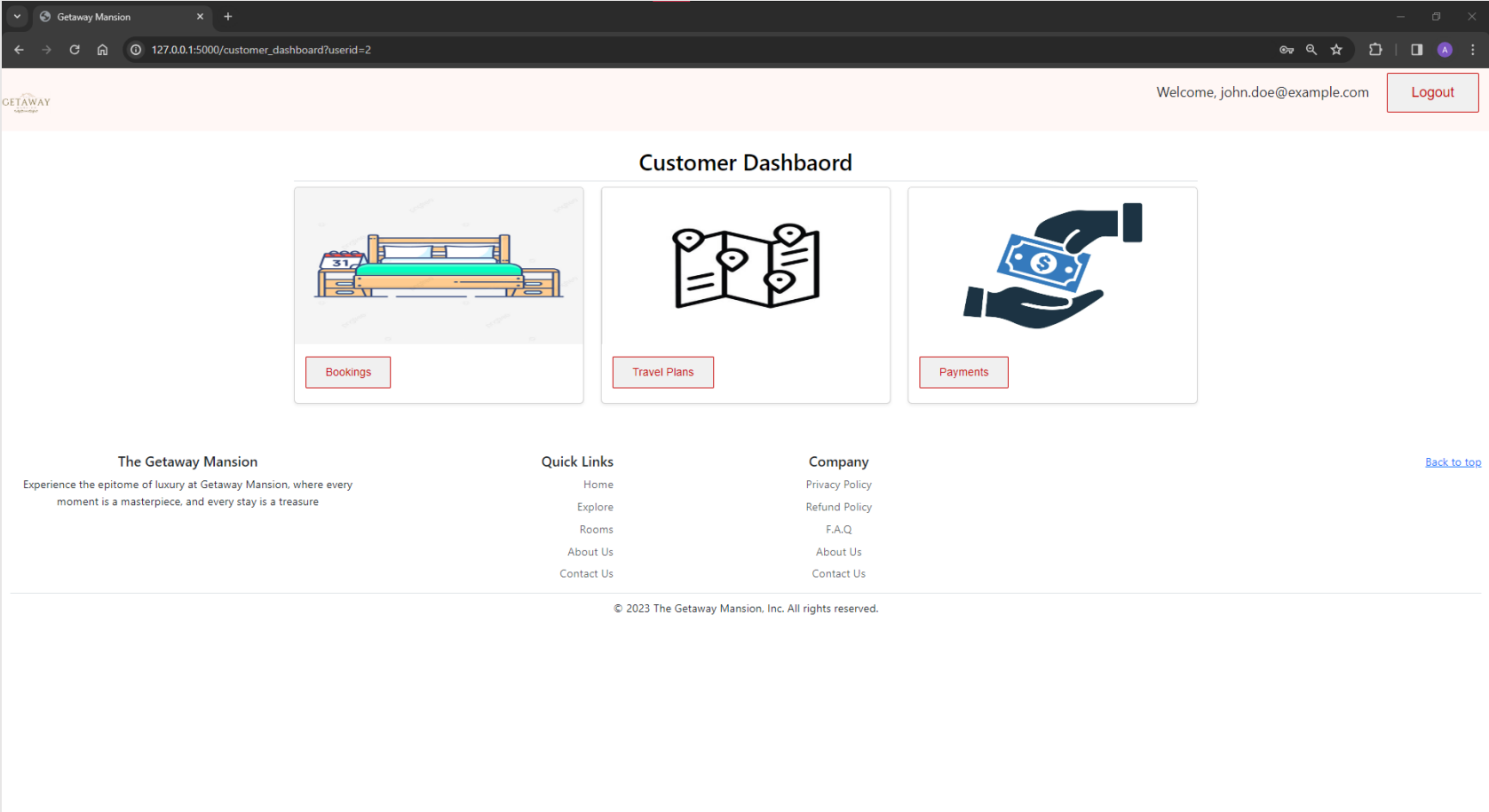
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# ADMIN DASHBOARD



# CUSTOMER DASHBOARD



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Email  
Enter email

Password  
Enter password

Confirm Password  
Enter password again

Admin Paskey  
Enter admin passkey

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## Sign-up

Passwords do not match, try again.

Email

Enter email

Password

Enter password

Confirm Password

Enter password again

Submit

Go to Login Page

Go to Admin Signup Page

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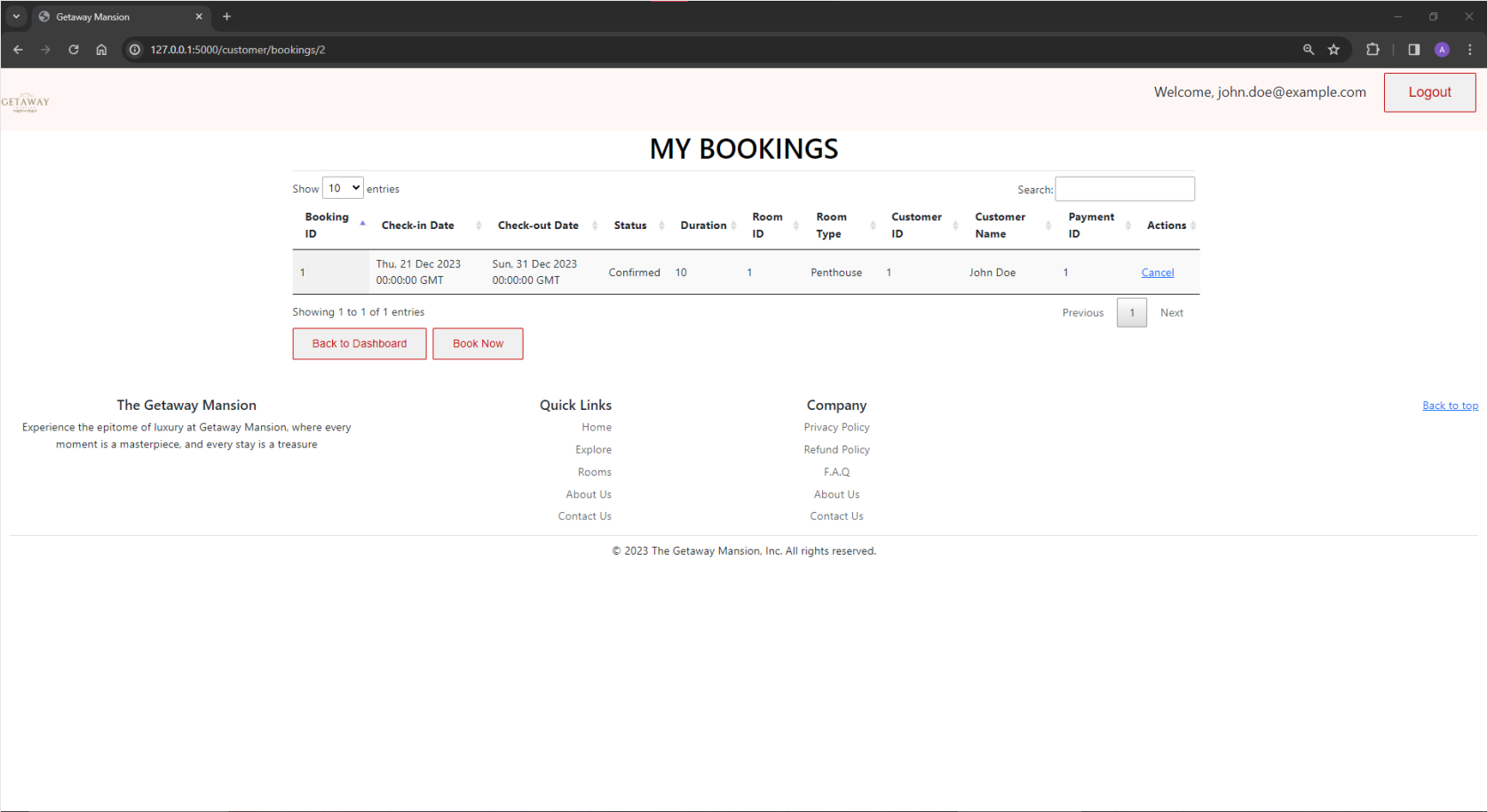
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# CUSTOMER-BOOKING





# CANCEL BOOKING

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127.0.0.1:5000/customer/bookings/2

Search

Star

Share

Print

Profile

More

GETAWAY Mansion

Welcome, john.doe@example.com

Logout

### MY BOOKINGS

Booking cancelled successfully.

Show 10 entries

Search:

Booking ID	Check-in Date	Check-out Date	Status	Duration	Room ID	Room Type	Customer ID	Customer Name	Payment ID	Actions
1	Thu, 21 Dec 2023 00:00:00 GMT	Sun, 31 Dec 2023 00:00:00 GMT	Cancelled	10	1	Penthouse	1	John Doe	1	<a href="#">Cancel</a>

Showing 1 to 1 of 1 entries

Previous1Next

Back to Dashboard

Book Now

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# BOOKING CONFIRMATION

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127.0.0.1:5000/booking/success

Welcome, john.doe@example.comLogout

SUCCESS! Booking Confirmed

Selected Room Type

Penthouse

Duration

17 nights

Customer Details

Title: MR

Name: Bruce Wayne

Email: textadash2@gmail.com

Mobile Number: +919567992310

Country: India

City: Ernakulam

Booking Details

Booking ID: 7

Payment ID: 7


Payment Type: Credit Card

Payment Amount: 190

Thank you for booking a room with us!

Check-in and Check-out Dates

Check-in: 2024-01-01, Check-out: 2024-01-18



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Print

Send to Email

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# TASK ASSIGNMENT

Tasks	Done by
Module 1: Login & Register	Nedha Fathima
Module 2: Enquiry & Reservation	David Vinoj Mathew
Module 3: Admin – Room Creation & Update/Delete	Aadarsh Suresh
Module 4: Payment & Cancellation	Megha Rajesh
<b>Diagrams :</b>	
DFD	Aadarsh & Megha
ER	Megha Rajesh
Block	David & Nedha
Sequence	David Vinoj Mathew
Activity	Nedha Fathima
Class	Aadarsh Suresh



Thank You !