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SOFTWARE DEVELOPMENT AKURDI, PUNE

Documentation On

“Hotel Reservation System”

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ABSTRACT

The Hotel Reservation System is a web Application for booking the rooms of Hotel through online by the Client. It provides the proper management system and easy access to the Client.

This System allow users to book and maintain their room booking in a hotel. Users can also check the room availability and add them to their favourites for future booking purpose. Clients/Users will be able to review their past room bookings and add notes and they can cancel room booking also within 24 hours of booking. Users can also get discounts if they were old Clients or on festival purpose.

Clients can review about their booking of rooms in hotel and share their past experiences of the hotel.

They can also give ratings and share their experiences.

ACKNOWLEDGEMENT

I take this occasion to thank God, almighty for blessing us with his grace and taking our endeavor to a successful culmination. I extend my sincere and heartfelt thanks to our esteemed guide, **Mrs. Gauri Kadam** for providing me with the right guidance and advice at the crucial juncture and for showing me the right way. I extend my sincere thanks to our respected **Centre Co-Ordinator Mr. Rohit Puranik**, for allowing us to use the facilities available. I would like to thank the other faculty members also, at this occasion. Last but not the least, I would like to thank my friends and family for the support and encouragement they have given me during the course of our work.

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INTRODUCTION

The Hotel Reservation System is a tool for booking the rooms of Hotel through online by the Client. It provides the proper management tools and easy access to the Client information.

This System allow users to book and maintain their room booking in a hotel. Users can also check the room availability and add them to their favourites for future booking purpose. Clients/Users will be able to review their past room bookings and add notes and they can cancel room booking also within 24 hours of booking. Users can also get discounts if they were old Clients or on festival purpose.

Client can submit their email to get future best offers of hotels also able to give feedback and ask query to care team through sending mail with their query, without login or register inside system or application. An admin can give the solution within 24 hrs through Client's mail. Client can book more than one room from one login user but for that he must have to log inside application.

Admin is able to see all details regarding room's status,client's details and their bookings and also can see their queries.

Features:-

1. Rooms available single,double,family,presidential.
2. Search for room according to need.

3. Search room on the basis of availability of breakfast or able to stay with pets.
4. Date and time of feedback as well as dates(fromdate & todate)of booking get notified.
5. The admin can add/delete Rooms,also can update rooms status and functionality
6. Allows the client to maintain their favourite cart.
7. Admin can able to see client details their bookings and able to see or update rooms details
8. Without login or register also client can submit mail for future references and can submit feedback or ask any query also.

1.1 PROJECT OBJECTIVE

The objective of the project is to make an application in web to book a room in an existing area according to client requirement and budget. In order to build such an application complete web support, need to be provided. A complete and efficient web application which can provide the online and offline hotel's room booking experience is the basic objective of the project. The web application can be implemented in the form of web application with web view.

1.2 PROJECT OVERVIEW

The central concept of the application is to allow the Client to book virtually using the internet and allow Clients to book the rooms and also book for other's also. The information from registration to booking all are stores on an RDBMS at the server side (Back end).

The server processes the Clients, during login and authenticate for as a exist user and the rooms of their choice are get booked on the based of their ID's in backend. The application was designed into two modules first is for the client who can buy ,see, ask query and send email for getting future scope. Second is for the admin who maintains and updates the information regarding adding or updating new rooms, getting info related booking checking the mails, and solve the errors in payments where the application is hosted on the web and the Adminmaintains the database. The application, which is deploy the client database, the details of the client are brought forward from the database for the client in his/her profile details and the database of all the rooms(Vacant to Occupied) are updated at the end of each transaction. Data entry into the application can be done through various screens designed for various levels of users. Once the authorized personal feed the relevant data into the system, several reports could be generated as per the security.

1.3 PROJECT SCOPE

This system can be implemented to any hotel in the locality or to multinational branded hotels having retail outlet chains. The system recommends a facility to accept the orders 24X7 and giving excited discount to their old clients, which can make client happy. Client will enjoy the services given by hotel, also can book food for eat in future also able to book cab for travelling one place to other one.

1.4 STUDY OF THE SYSTEM

1.4.1 MODULES:

The system after careful analysis has been identified to be presented with the following modules and roles.

The modules involved are:

- Admin
- Users

1.4.1.1 Admin:

The admin is the super user of this application. Only admin have access into this admin page. Admin may be the owner of the shop. The Admin has all the information about the users and about all rooms and booking's details.

This module is divided into different sub modules.

1. Manage Room Status

2. Manage Payment
3. Manage Users
4. Manage Bookings

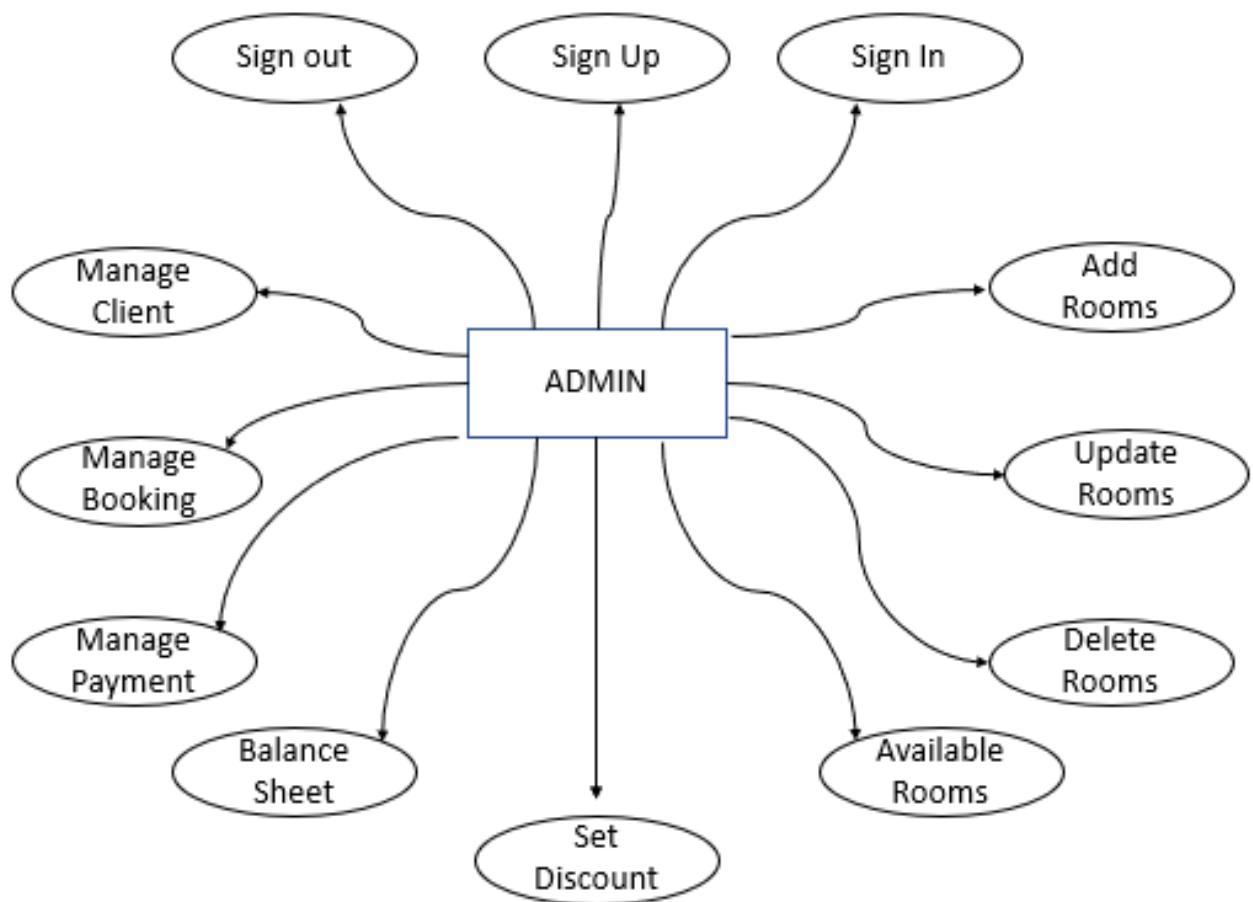


Figure 1 Admin Activity Diagram

➤ **Add Rooms**

The rooms contains different kinds and different category. The rooms can be classified into different categories by their price ranges. Admin can add new room into the existing system with all its details including an image.

➤ **Delete Rooms**

Admin can delete the rooms based on the requirement.

➤ **Search Rooms**

Admin will have a list view of all the existing rooms. He can also search for a particular room by their price range and requirement.

➤ **Manage Booking**

Admin can manage booking and available rooms according to requirements.

➤ **Able to see Client details**

Admin have the privilege to manage and see client details and their bookings, also have to manage according to him.

➤ **Remove Client**

Admin have the privilege to remove the client

➤ **Set Discounts/offers**

Only admin is having the privilege to give and add discount to particular and selected client.

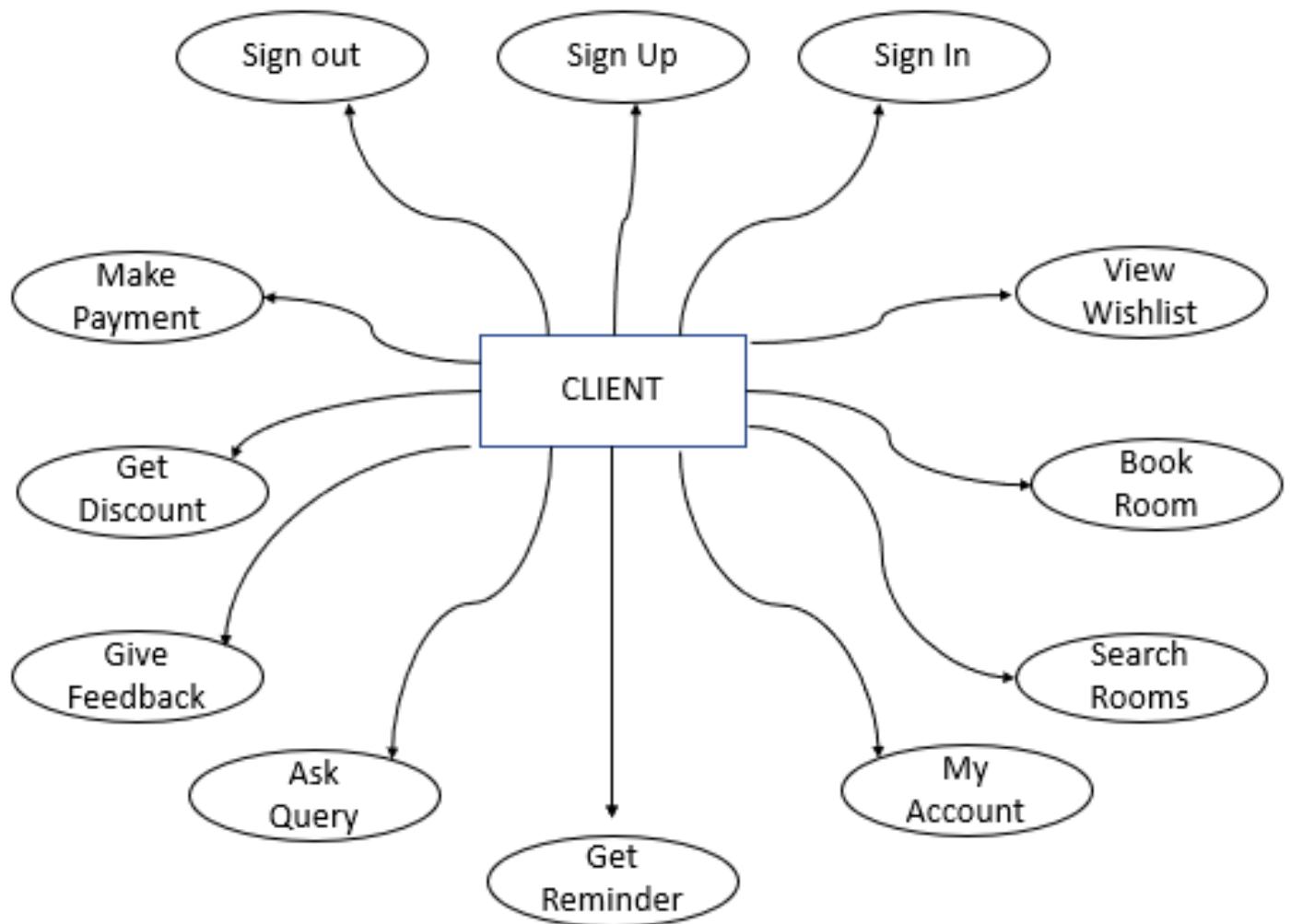


Figure 2 Client Activity Diagram

➤ **Client sign in, sign out, create account**

This feature is provided to client so he can sign in, sign out and create account for new client.

➤ **Search Rooms**

Client can search the rooms as per his wish in specific category.

➤ **Add to Favourite**

Client can add rooms to cart which he wants to buy the rooms.

➤ **Payments**

Client have a privilege to his order he can see his order details.

➤ **Order Details**

Client have a privilege to his order he can see his order details.

➤ **Buy Room**

Clients can buy room from his cart by doing payment.

➤ **Ask Query**

Client can able to ask query or give feedback by sending mail to admin, also can submit their mail Id for getting upcoming offers and discount details.

SYSTEM ANALYSIS

System analysis is the process of gathering and interpreting facts, diagnosing problems, and using the information to recommend improvements on the system. System analysis is a problem-solving activity that requires intensive communication between the system users and system developers.

System analysis or study is an important phase of any system development process. The system is viewed as a whole, the inputs are identified, and the system is subjected to close study to identify the problem areas. The solutions are given as a proposal. The proposal is reviewed on user request and suitable changes are made. This loop ends as soon as the user is satisfied with the proposal.

2.1 EXISTING SYSTEM

The current system for shopping is to visit the shop manually and from the available room choose the item Client want and buying the item by payment of the price of the item.

- ✓ It is less user-friendly.
- ✓ User must go to shop and select rooms.
- ✓ It is difficult to identify the required room.
- ✓ Description of the room limited.
- ✓ It is a time-consuming process
- ✓ Not in reach of distant users.

2.2 PROPOSED SYSTEM

In the proposed system Client need not go to the shop for buying the rooms. He can order the room he wish to buy through the application in his Smartphone. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the Clients and room orders. The system also recommends a home delivery system for the purchased rooms.

2.3 SYSTEM REQUIREMENT SPECIFICATION

2.3.1 GENERAL DESCRIPTION

Room Description:

The system consists of two parts. A web application which can provide the online reservation service for the Client to book through the web service from his Smartphone/System. Web application should be able to help the Client for selecting his room and to help the admin in managing the booking from the Clients.

Problem Statement:

As online hotel room reservation became a trend nowadays the regular hotel are losing their Clients. Clients have effortless shopping experience and saving time through booking online. For competing with those online hotels, if hotels are providing an online portal where their Clients can book through internet and get the rooms from anywhere it will increase the number of Clients.

2.3.2 SYSTEM OBJECTIVES

- To provide a Web application for online shopping of rooms in an existing shop.
- To provide an online shopping web site for the same shop.

2.3.3 SYSTEM REQUIREMENTS

2.3.3.1 NON-FUNCTIONAL REQUIREMENTS

i. EFFICIENCY REQUIREMENT

When an online booking cart android application implemented Client can book room in efficient manner.

ii. RELIABILITY REQUIREMENT

The system should provide a reliable environment to both Clients and Admin. All bookings should be reaching at the admin without any errors.

iii. USABILITY REQUIREMENT

The Web application is designed for user friendly environment and ease of use.

iv. IMPLEMENTATION REQUIREMENT

Implementation of the system using React in front end with Spring Boot as back end and it will be used for database connectivity. And the database part is developed by MySQL. Responsive web designing is used for making the website compatible for any type of screen.

2.3.3.2 FUNCTIONAL REQUIREMENTS

USER

➤ USER LOGIN

Description of

feature

This feature used by the user to login into system. A user must login with his username and password to the system after registration. If they are invalid, the user not allowed to enter the system.

Functional Requirement

- Username and password will be provided after user registration is confirmed.
- Password should be hidden from others while typing it in the field

➤ REGISTER NEW

USER Description of feature

A new user will have to register in the system by providing essential details in order to view the rooms in the system. The admin must accept new user by unblocking him.

Functional Requirement

- System must be able to verify and validate information.

- The system must encrypt the password of the Client to provide security.

➤ PURCHASING AN ITEM

Description of feature

The user can add the desired room into his cart by clicking add to cart option on the room. He can view his cart by clicking on the cart button. All rooms added by cart can be viewed in the cart. User can remove an room from the cart by clicking remove. After confirming the rooms in the cart client can book the room easily, On successful submitting the cart will become empty.

Functional Requirement

- System must ensure that, only a registered Client can book the room.
- Admin account should be secured so that only owner of the hotel can access that account

MODERATOR

Description of features

A moderator is considered as a manager who can manage orders for the time being. As a future update moderator may give facility to add and manage his own rooms. Moderators can reduce the workload of admin. Now moderator has all the privilege of an admin having except managing other moderators. He can manage users and manage rooms. He can also check the orders and edit his profile.

Functional Requirement

- The system must identify the login of a moderator.

ADMIN

➤ MANAGE USER

Description of features

The Admin can add user, delete user, check bookings and update rooms according to it.

➤ MANAGE ROOMS

Description of features

The Admin can add room, delete room, and view room status.

➤ **MANAGE
BOOKINGS;**

Description of features

The Admin can view bookings and delete bookings.

Functional Requirements:

- The system must identify the login of the admin.
- Admin account should be secured so that only owner of the shop can access that account.

USER

➤ **MANAGE CART**

- User can add the favourite rooms inside its cart/favourite.

➤ **MANAGE PAYMENTS**

- User can make payment also able to see update of payment inside his/her profile.

DATABASE DESIGN

3.1 DATABASE

Databases are the storehouses of data used in the software systems. The data is stored in tables inside the database. Several tables are created for the manipulation of the data for the system. Two essential settings for a database are

- Primary key - the field that is unique for all the record occurrences
- Foreign key - the field used to set relation between tables

Normalization is a technique to avoid redundancy in the tables.

3.2 SYSTEM TOOLS

The various system tools that have been used in developing both the front end and the back end of the project are being discussed in this chapter.

3.2.1 FRONT END:

React is a library which is developed by Facebook are utilized to implement the frontend. React (also known as React.js or ReactJS) is a free and open-source front-end JavaScript library for building user interfaces or UI components. It is maintained by Facebook and a community of individual developers and companies. React can be used as a base in the development of single page or mobile applications. However, React is only concerned with state management and rendering that state to the DOM, so creating React applications usually requires the use of additional libraries for routing, as well as certain client-side functionality.

3.2.2 BACKEND:

The back end is implemented using MySQL which is used to design databases.

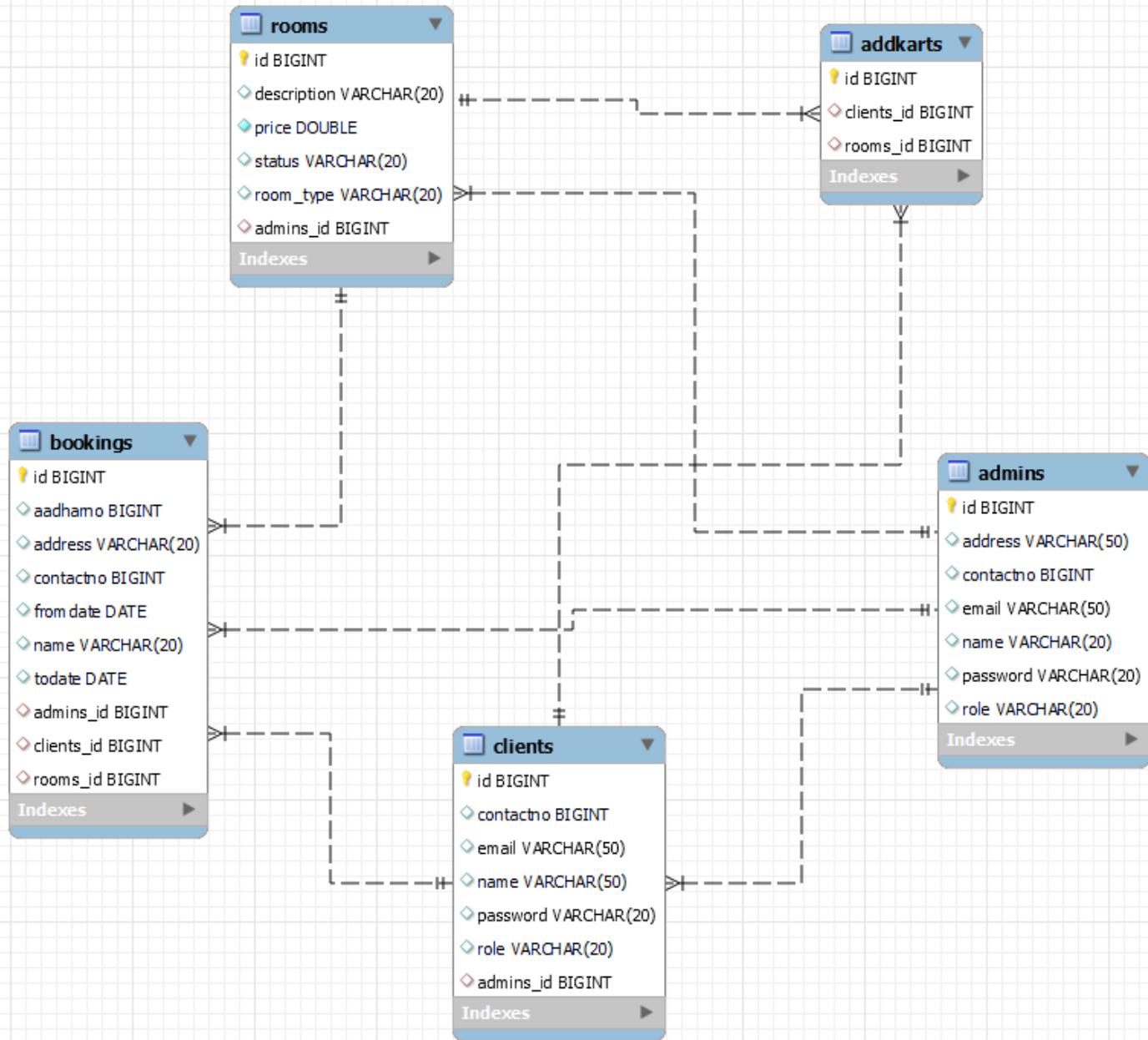
MySQL:

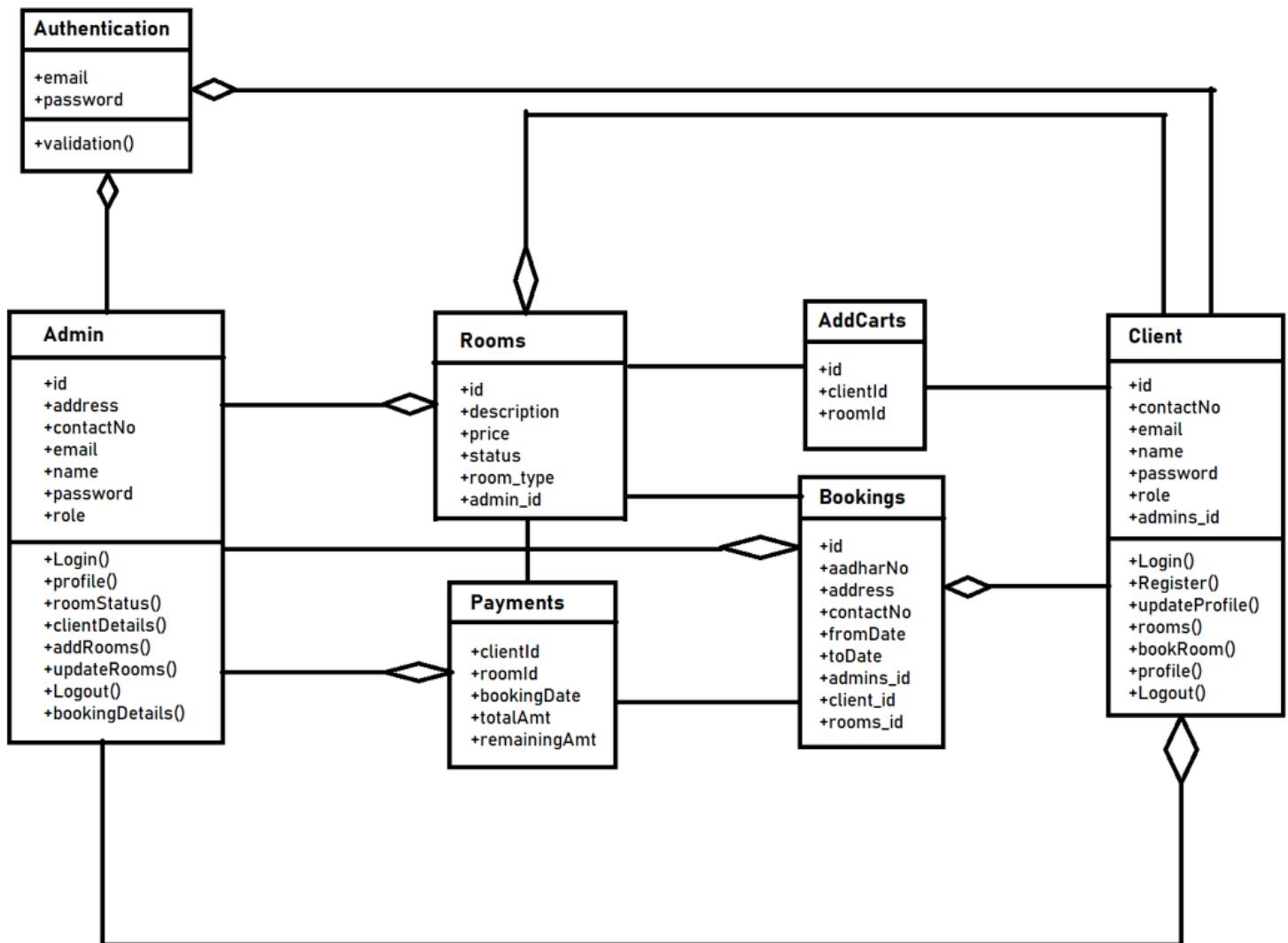
MySQL is the world's second most widely used open-source relational database management system (RDBMS). The SQL phrase stands for Structured Query Language. An application software called Navicert was used to design the tables in MySQL.

Spring-Boot:

This is used to connect MYSQL and fetch data from database and store the data in database. The Spring Framework is an application framework and inversion of control container for the Java platform. The framework's core features can be used by any Java application, but there are extensions for building web applications on top of the Java EE (Enterprise Edition) platform. Although the framework does not impose any specific programming model, it has become popular in the Java community as an addition to the Enterprise JavaBeans (EJB) model. The Spring Framework is Open-source Framework.

E-R Diagram:



*Figure 3 E-R Diagram***Class Diagram:***Figure 4 Class Diagram*

ER- Manual Diagram:

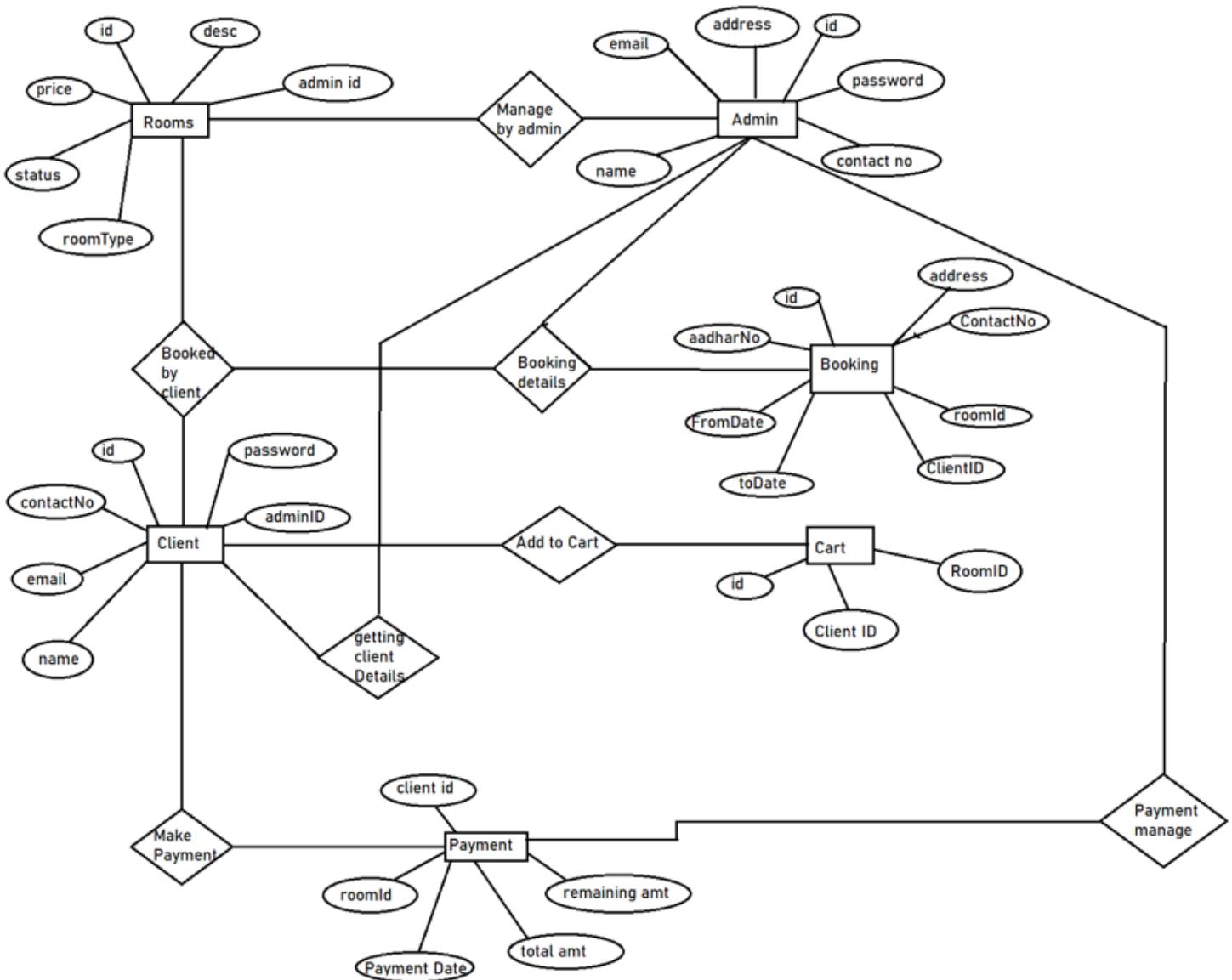


Figure 5 ER-Manual Diagram

Activity Diagram:

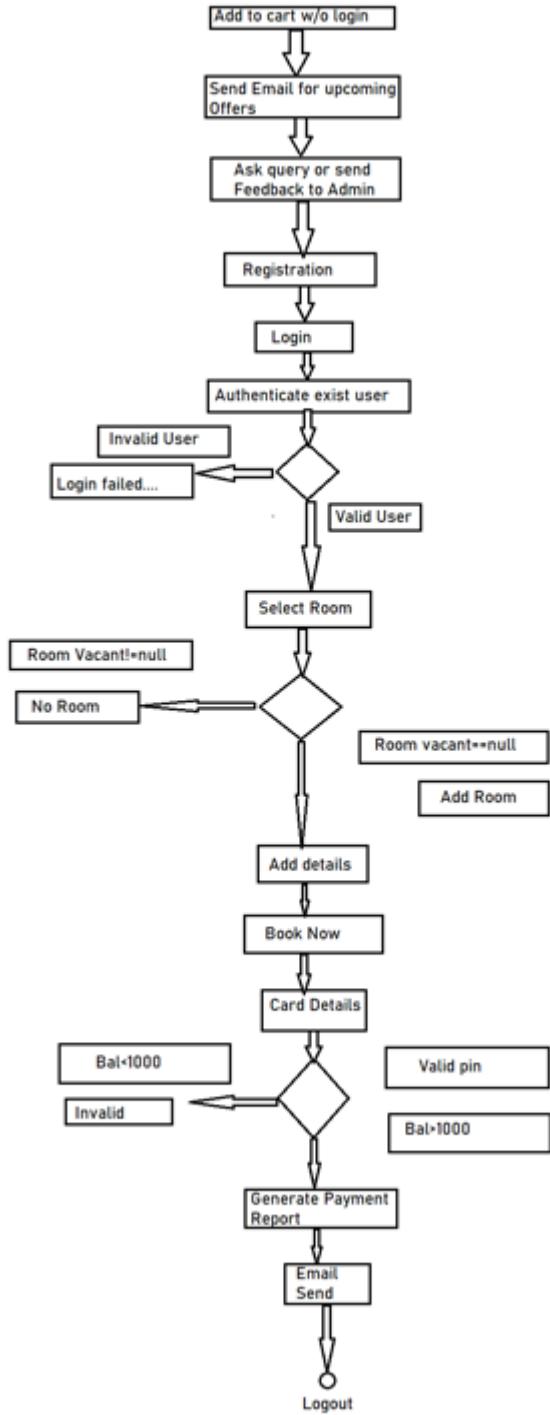
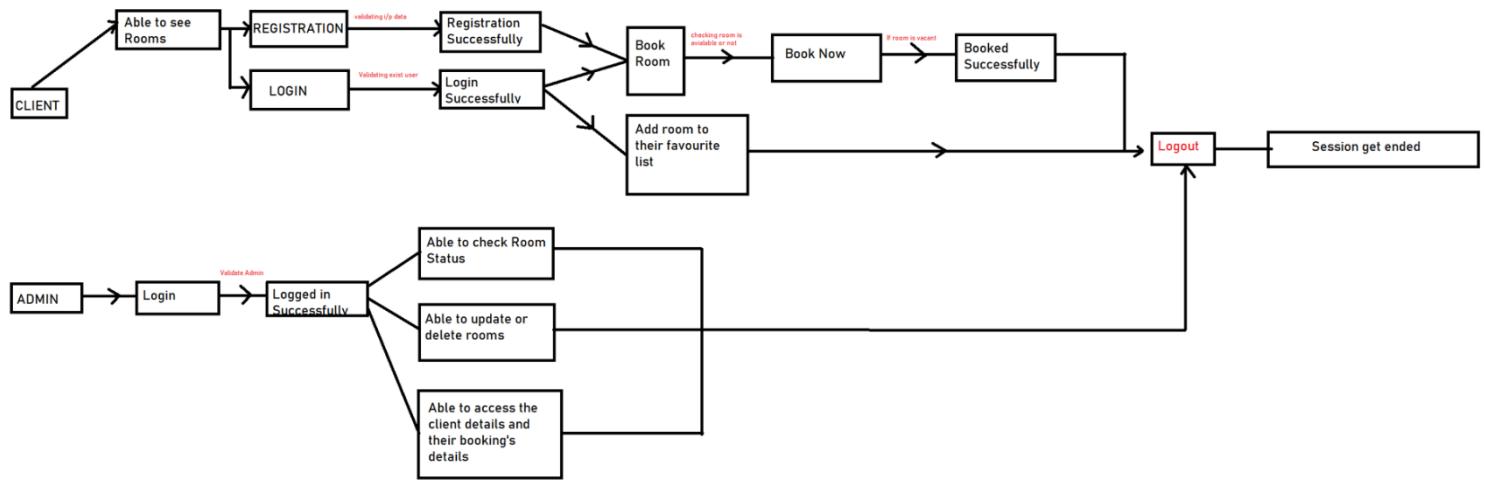


Figure 6 Activity Diagram

DFD Diagram:*Figure 7 DFD Diagram*

Client UML Diagram

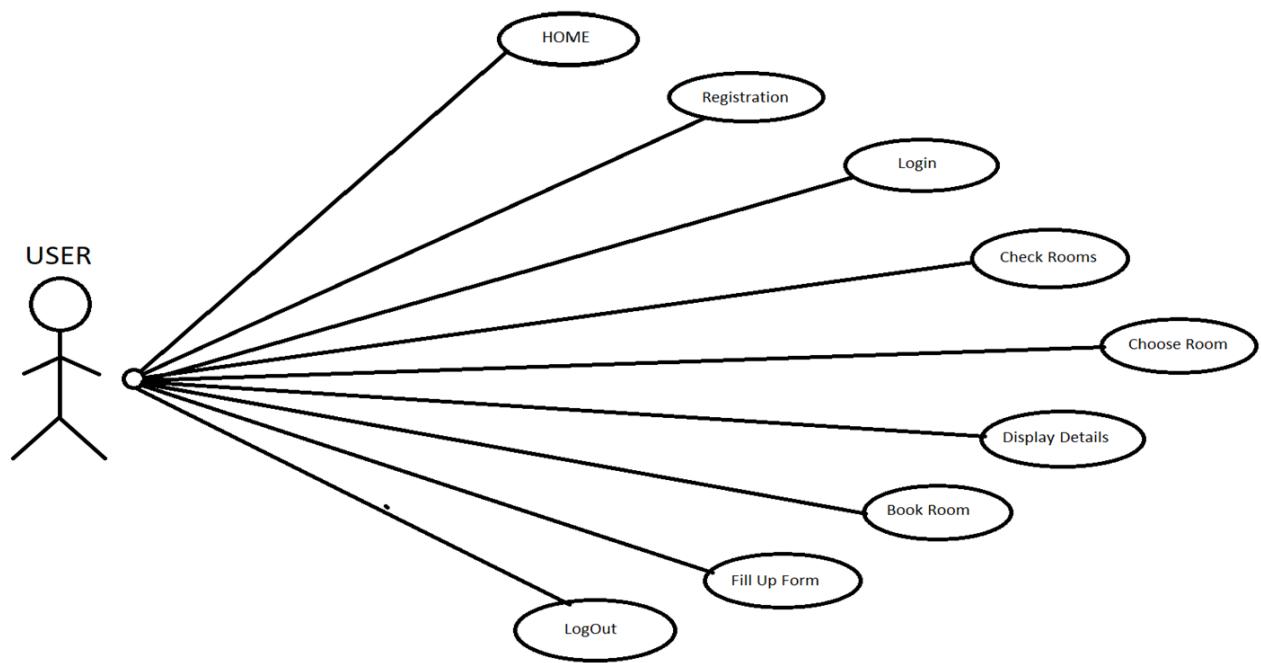


Figure 8 Client UML Diagram

Admin UML Diagram

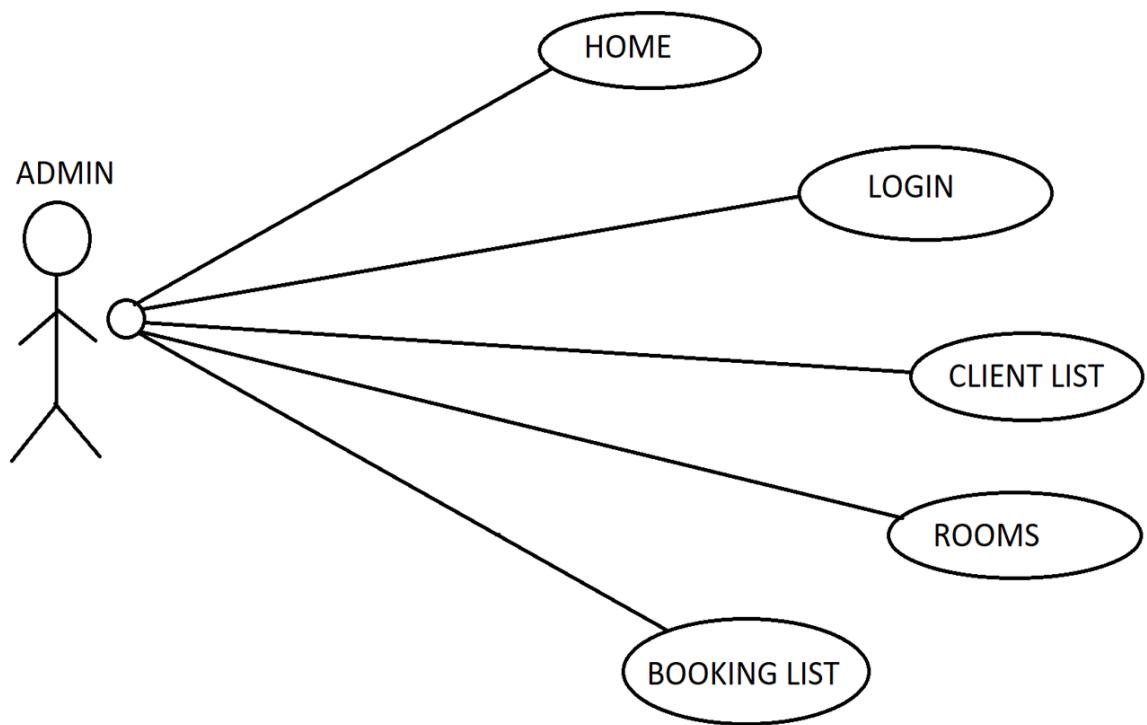


Figure 9 Admin UML Diagram

Client Sequence Diagram

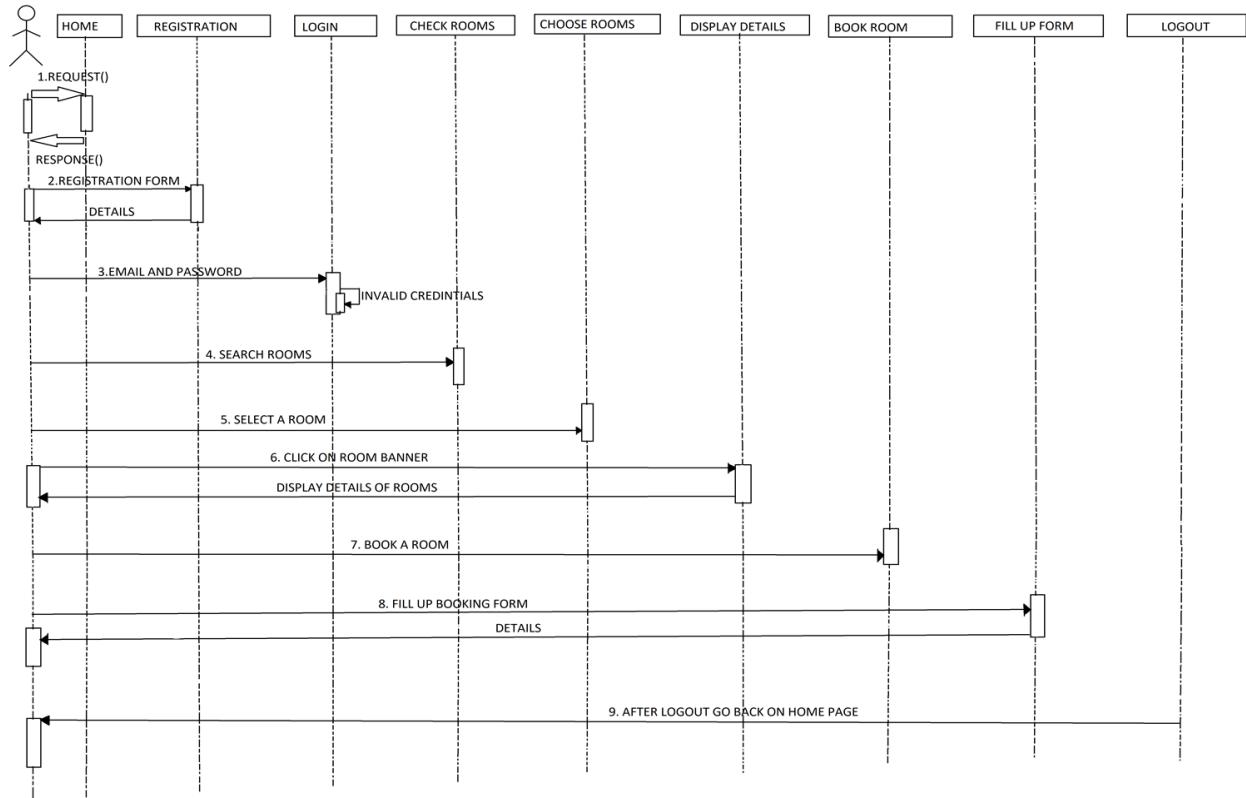


Figure 10 Client Sequence Diagram

Admin Sequence Diagram

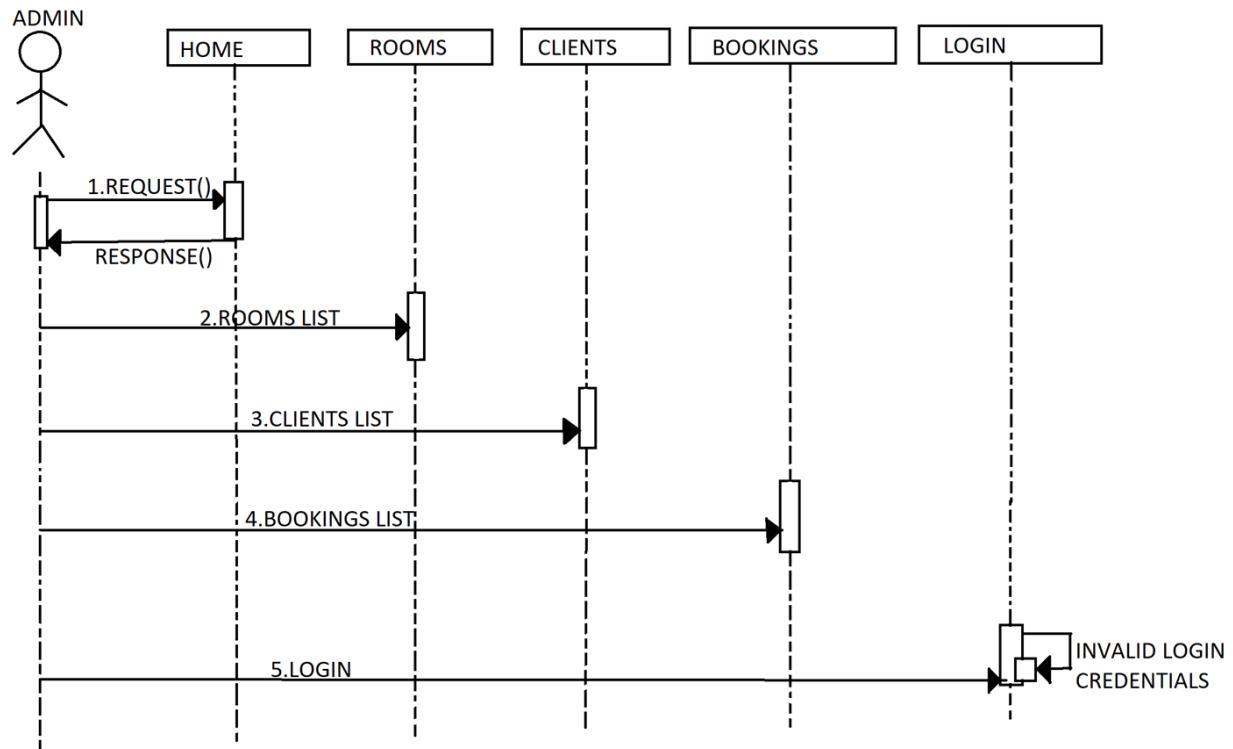


Figure 11 Admin Sequence Diagram

TABLE STRUCTURE:

Tables:

```
mysql> use hrsprojects;
Database changed
mysql> show tables;
+-----+
| Tables_in_hrsprojects |
+-----+
| addkarts
| admins
| bookings
| clients
| rooms
+-----+
5 rows in set (0.20 sec)
```

Admin:

```
mysql> desc admins;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | bigint | NO | PRI | NULL | auto_increment |
| address | varchar(50) | YES | | NULL |
| contactno | bigint | YES | | NULL |
| email | varchar(50) | YES | | NULL |
| name | varchar(20) | YES | | NULL |
| password | varchar(20) | YES | | NULL |
| role | varchar(20) | YES | | NULL |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.24 sec)
```

Client:

```
mysql> desc clients;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | bigint | NO | PRI | NULL | auto_increment |
| contactno | bigint | YES | | NULL |
| email | varchar(50) | YES | | NULL |
| name | varchar(50) | YES | | NULL |
| password | varchar(20) | YES | | NULL |
| role | varchar(20) | YES | | NULL |
| admins_id | bigint | YES | MUL | NULL |
+-----+-----+-----+-----+-----+-----+
7 rows in set (0.02 sec)
```

Rooms:

```
mysql> desc rooms;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | bigint | NO | PRI | NULL | auto_increment |
| description | varchar(20) | YES | | NULL |
| price | double | NO | | NULL |
| status | varchar(20) | YES | | NULL |
| room_type | varchar(20) | YES | | NULL |
| admins_id | bigint | YES | MUL | NULL |
+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

Bookings:

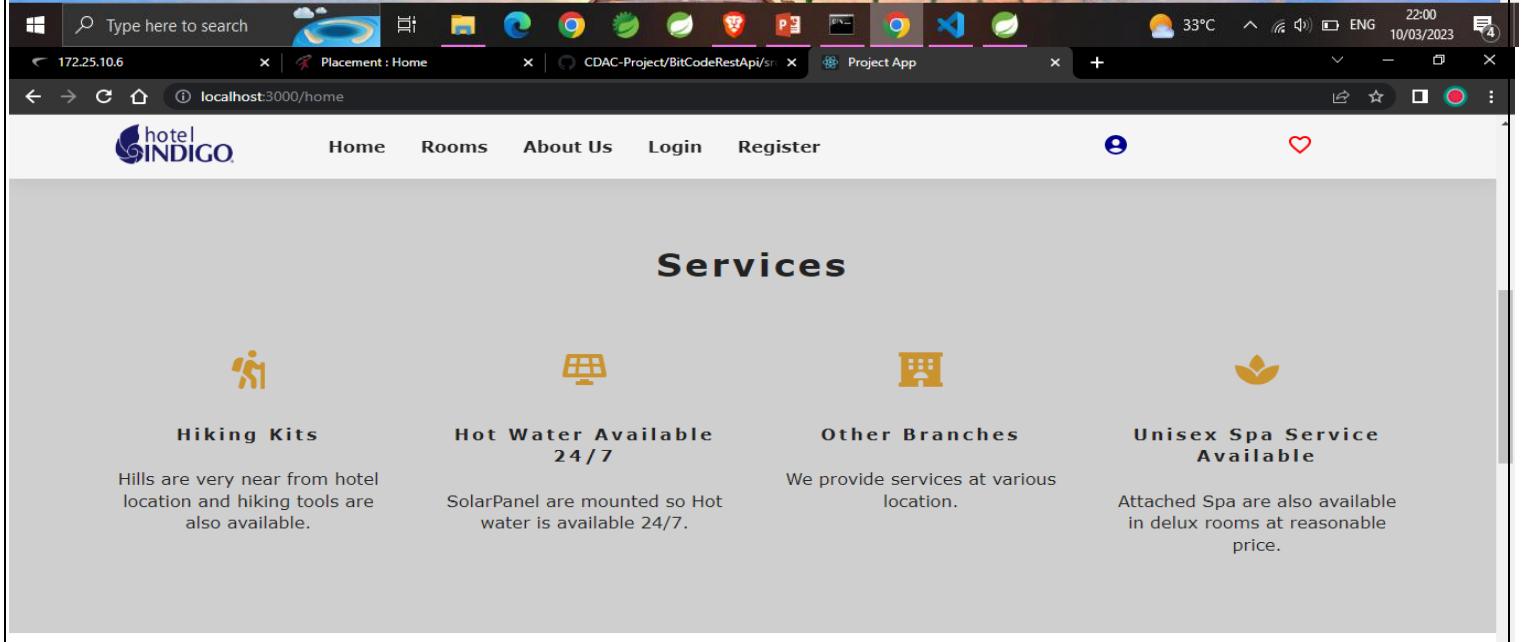
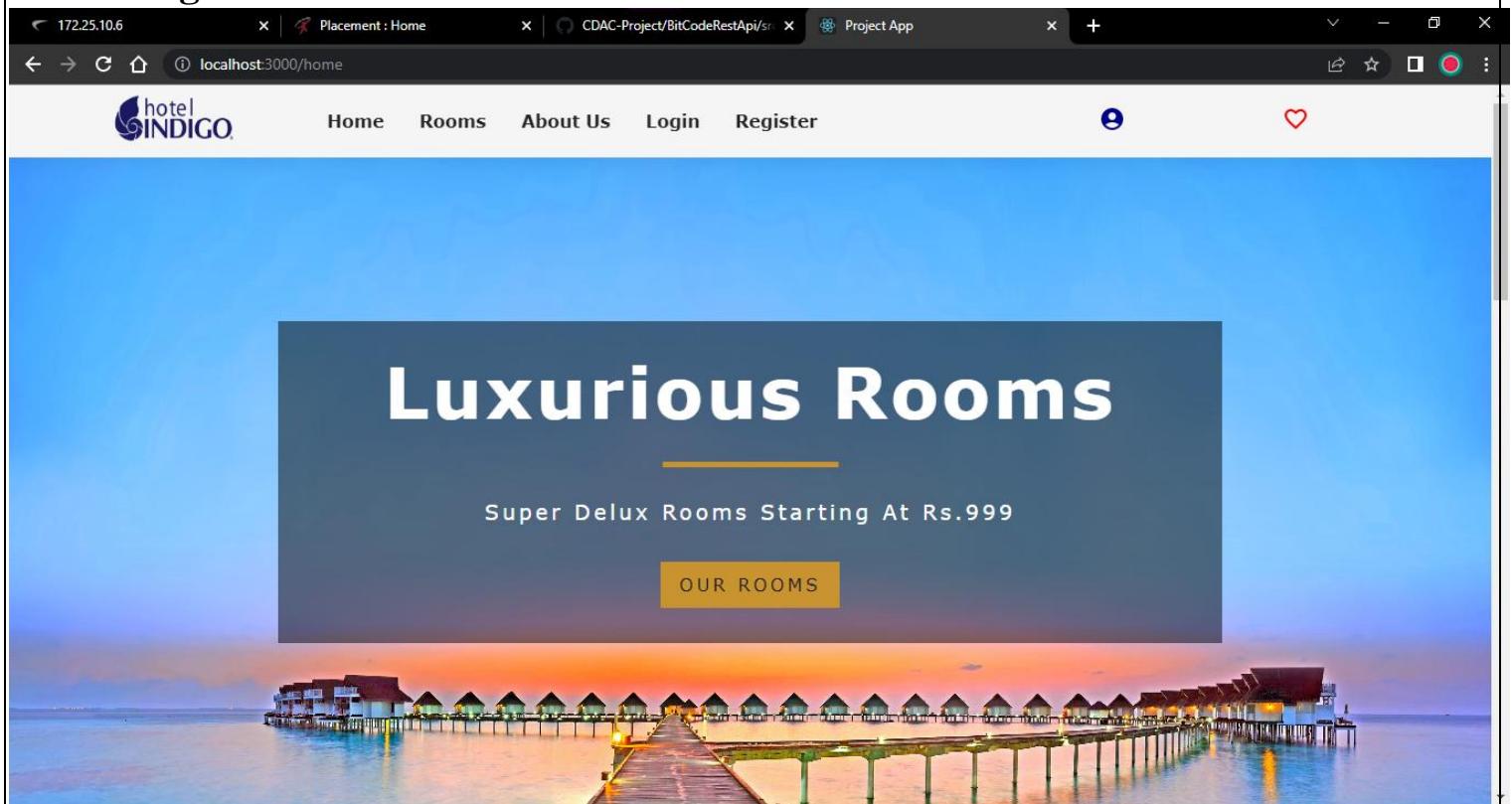
```
mysql> desc bookings;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | bigint | NO | PRI | NULL | auto_increment |
| aadharo | bigint | YES | | NULL |
| address | varchar(20) | YES | | NULL |
| contactno | bigint | YES | | NULL |
| fromdate | date | YES | | NULL |
| name | varchar(20) | YES | | NULL |
| todate | date | YES | | NULL |
| admins_id | bigint | YES | MUL | NULL |
| clients_id | bigint | YES | MUL | NULL |
| rooms_id | bigint | YES | MUL | NULL |
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.02 sec)
```

addCarts:

```
mysql> desc addkarts;
+-----+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| id | bigint | NO | PRI | NULL | auto_increment |
| clients_id | bigint | YES | MUL | NULL |
| rooms_id | bigint | YES | MUL | NULL |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)
```

Project Screenshots:

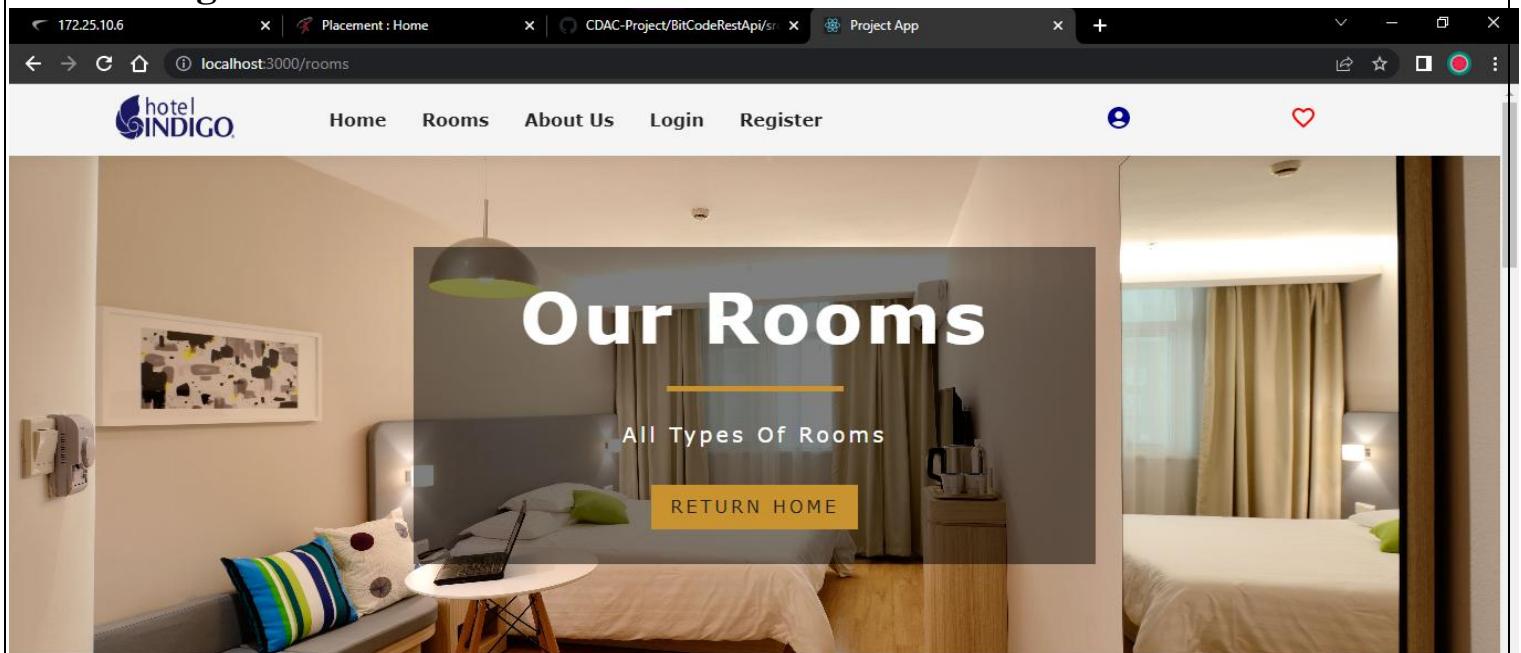
Home Page:



The screenshot shows a web browser window with the URL localhost:3000/home. The page title is "Placement : Home". The main content is titled "Featured Rooms" and displays three room types:

- Double Deluxe:** ₹ 5100 per night. A living room with a large blue sofa and a view of the sea.
- Family Deluxe:** ₹ 8600 per night. A bedroom with a double bed, a red throw blanket, and a flat-screen TV.
- Presidential:** ₹ 9300 per night. A large bedroom with a king-size bed, multiple pillows, and a balcony view.

The screenshot shows a web browser window with the URL localhost:3000/home. The page title is "Placement : Home". The main content features a prominent banner with the text "Save time, save money!" and a subtext "Sign up and we'll send the best deals to you". Below the banner is a form with an input field labeled "@UserEmail" and a blue "Submit" button. The footer contains four sections: "Customer Care" (Contact Us, FAQs, Terms of Service), "My Account" (Sign in/Register, My Wishlist, My Cart), "More Help" (Our Team, Admin), and "Social Media" (LinkedIn, GitHub, Twitter, Facebook). The footer also includes a copyright notice: "Copyright@2023 All Rights Reserved".

Rooms Page:**Search Rooms**

Room Types Guests Room Price Room Size Breakfast
 Rs.9300
 Pets

Room Type	Price per night	Description
Single Economy	₹999	
Single Basic	₹1100	
Single Standard	₹1500	
Single Deluxe	₹2000	

Screenshot of a web browser showing a hotel room booking interface for "hotel INDIGO". The page displays various room types with their names, prices, and small images.

The browser tabs are:

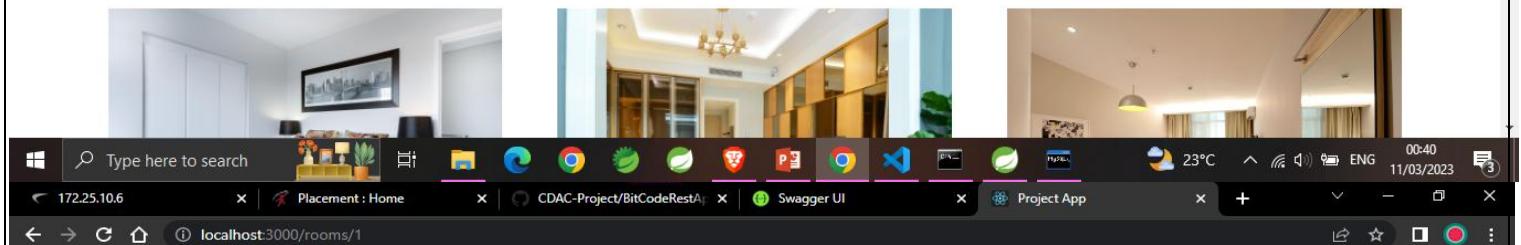
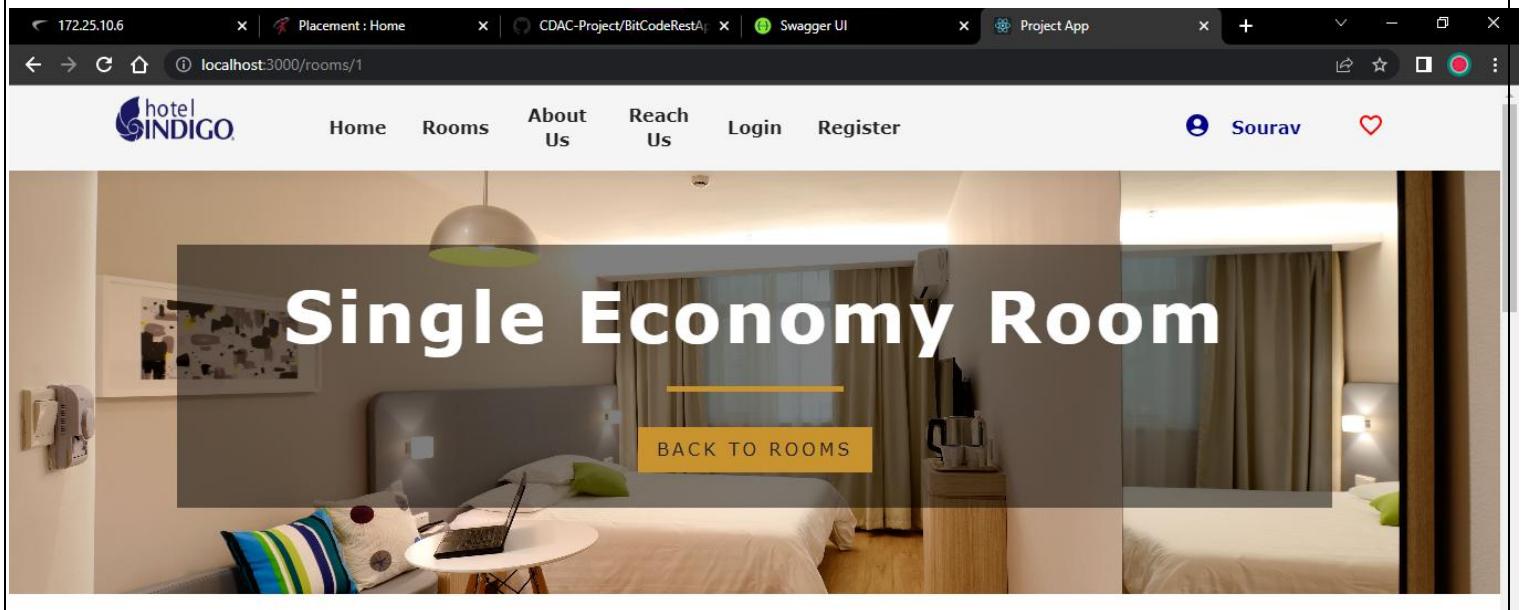
- 172.25.10.6
- Placement : Home
- CDAC-Project/BitCodeRestApi/SR
- Project App

The address bar shows: localhost:3000/rooms

The main content area shows the following room types:

Room Type	Price (per night)
Double Economy	₹ 3000
Double Basic	₹ 3700
Double Standard	₹ 4600
Double Deluxe	₹ 5100
Family Economy	₹ 6200
Family Basic	₹ 7800
Family Standard	₹ 8100
Family Deluxe	₹ 8600
Other Room	₹ 9300

The taskbar at the bottom includes icons for search, file explorer, browser, and other system functions, along with system status indicators like weather (33°C), date (10/03/2023), and battery level (22:07).

Room Details:**Details**

Street art edison bulb gluten-free, tofu try-hard lumbersexual brooklyn tattooed pickled chambray. Actually humblebrag next level, deep v art party wolf tofu direct trade readymade sustainable hell of banjo. Organic authentic subway tile cliche palo santo, street art XOXO dreamcatcher retro sriracha portland air plant kitsch stumptown. Austin small batch squid gastropub. Pabst pug tumblr gochujang offal retro cloud bread bushwick semiotics before they sold out sartorial literally mlkshk. Vaporware hashtag vice, sartorial before they sold out pok pok health goth trust fund cray.

Info

Price: ₹999 (20% off)

Deal Of The Day: ₹979.02

Size: 200 SQFT

Max Capacity: 1 People

Pets Are Not Allowed

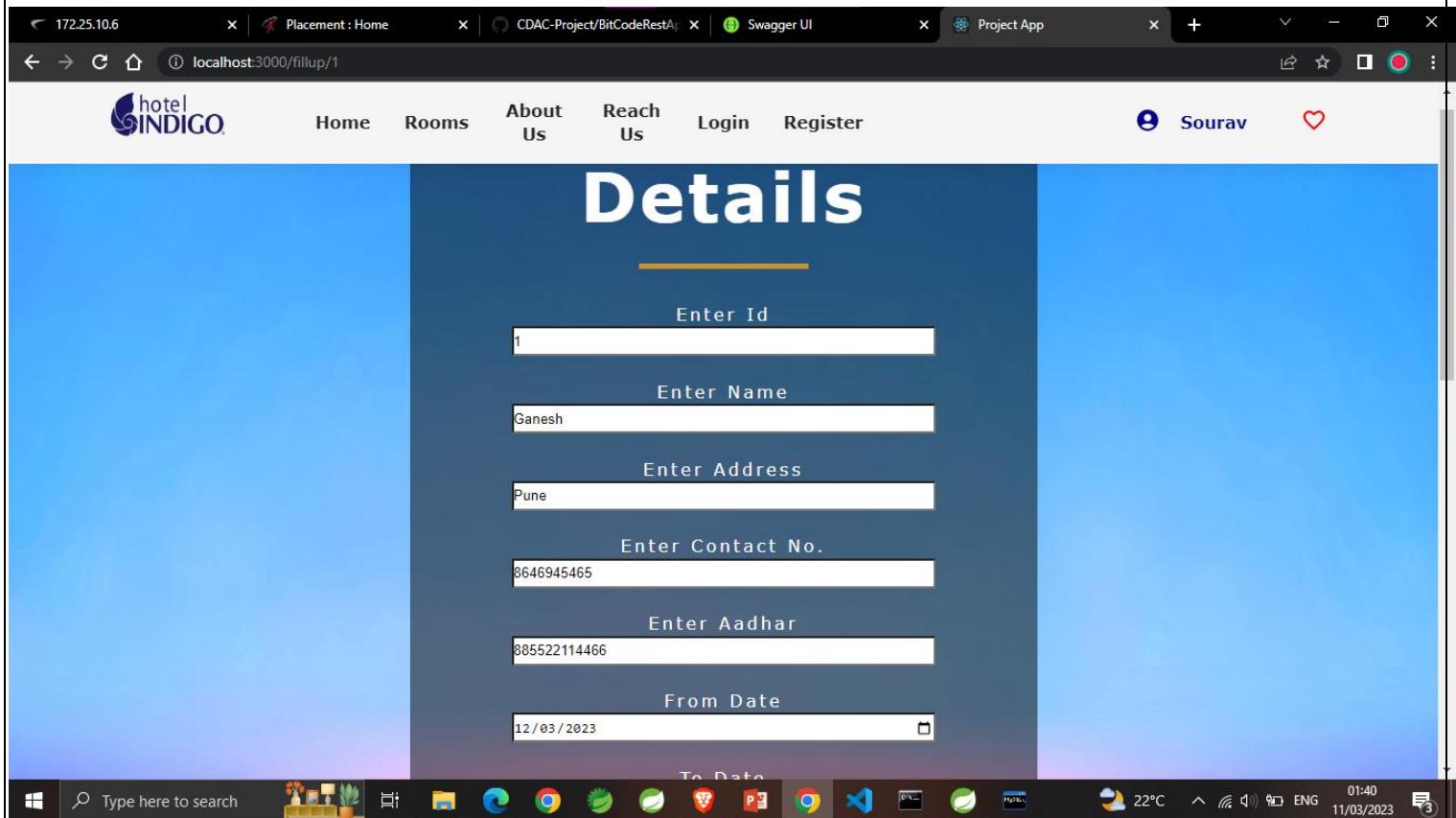


The screenshot shows a web browser window with multiple tabs open. The active tab is for 'localhost:3000/rooms/1'. The page header includes the 'hotel INDIGO' logo, navigation links for Home, Rooms, About Us, Reach Us, Login, and Register, and a user profile for 'Sourav'. A large orange 'BOOK NOW' button is prominently displayed. Below it, a section titled 'Extras' lists various amenities:

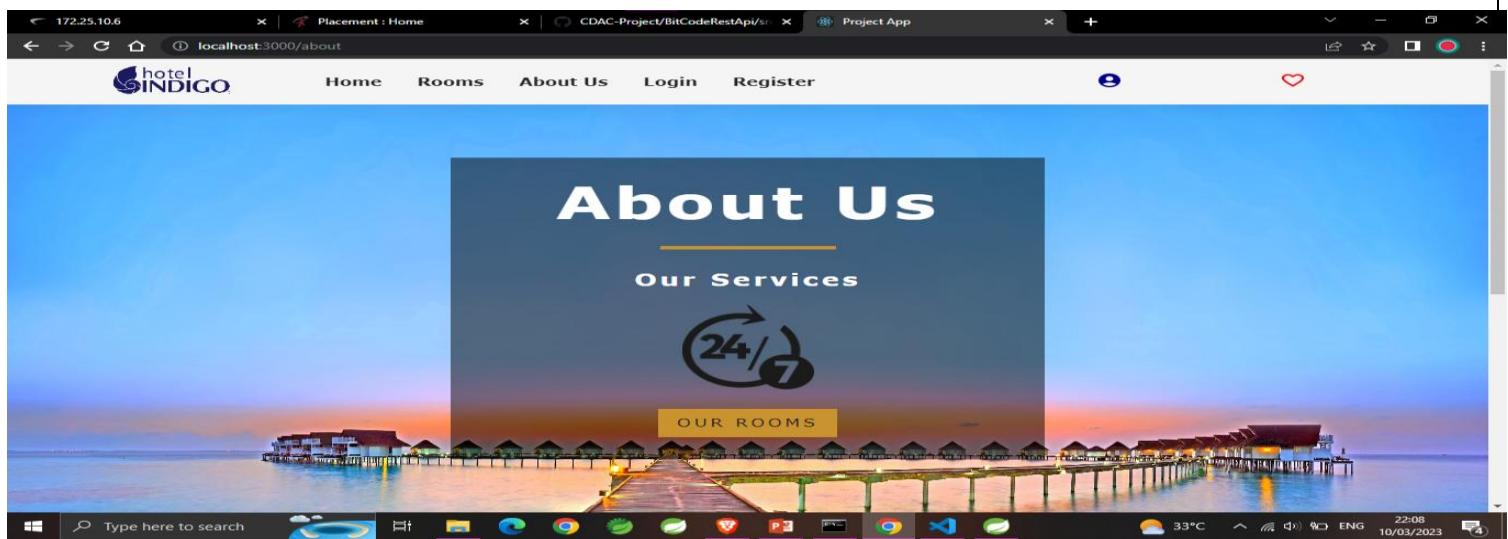
- Plush Pillows And Breathable Bed Linens	- Soft, Oversized Bath Towels	- Full-Sized, PH-Balanced Toiletries
- Complimentary Refreshments	- Adequate Safety/Security	- Internet
- Comfortable Beds	- Video Games, TV Cable Channels	- Shower Toilet

At the bottom of the page, there is a dark banner with the text 'Save time, save money!' and 'Sign up and we'll send the best deals to you'. A form field for '@UserEmail' and a blue 'Submit' button are part of this banner. The browser's taskbar at the bottom shows various pinned icons and system status.

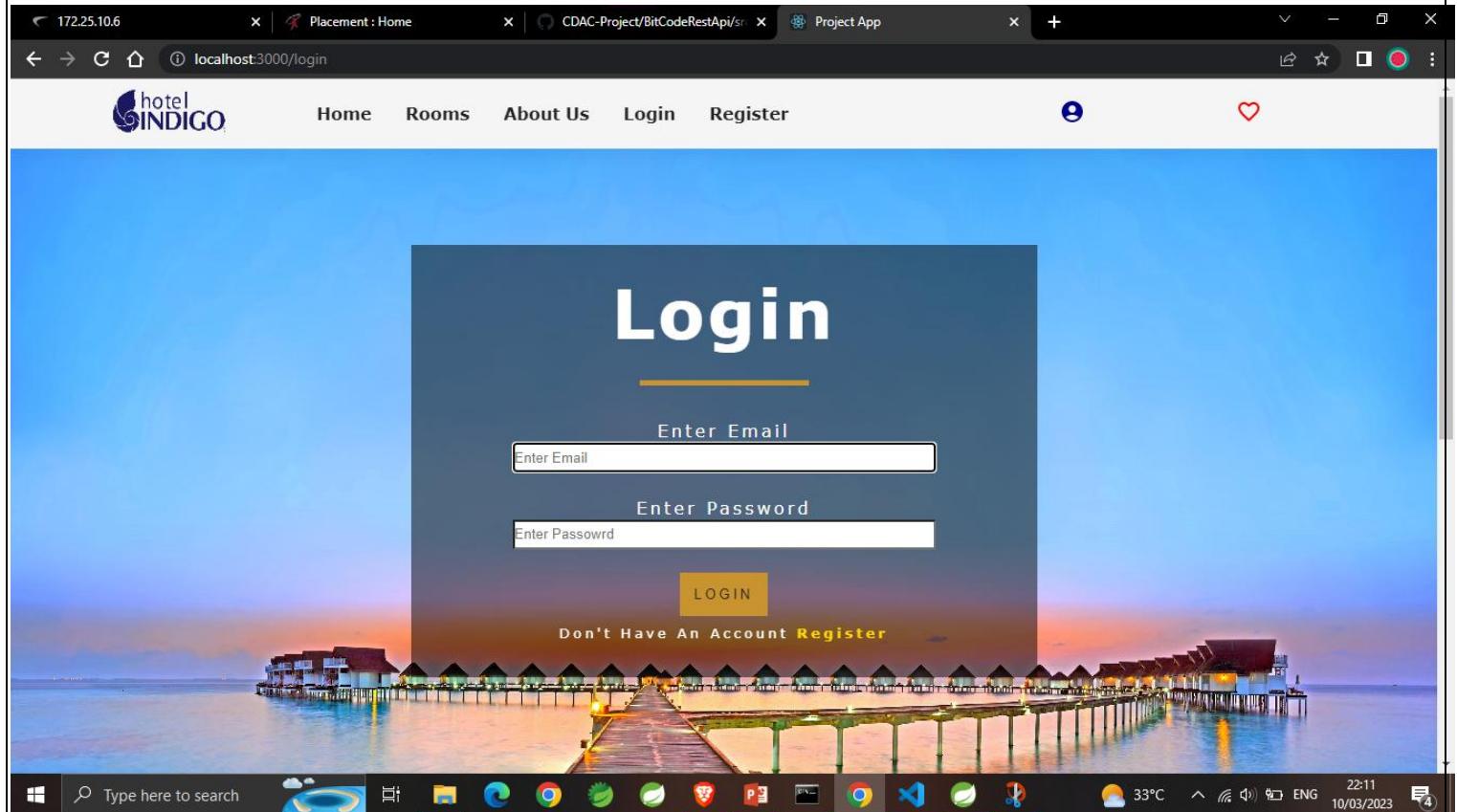
Booking Page:



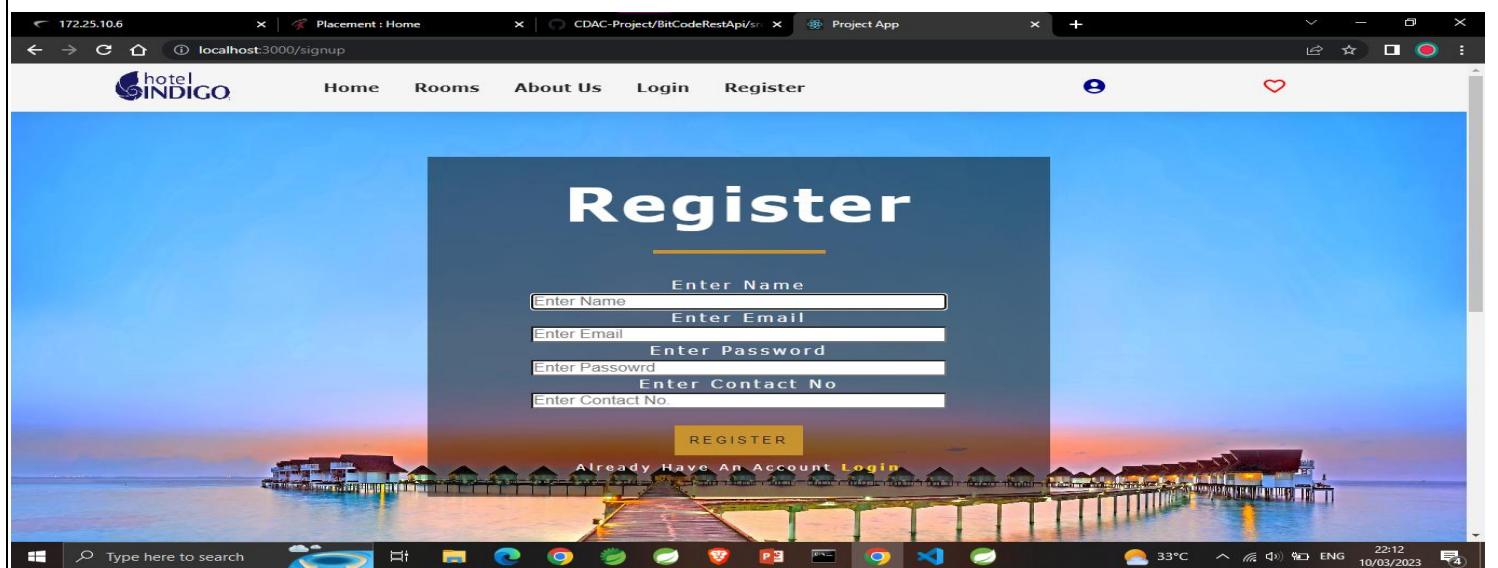
About Page:



Login Page:



Registration Page:



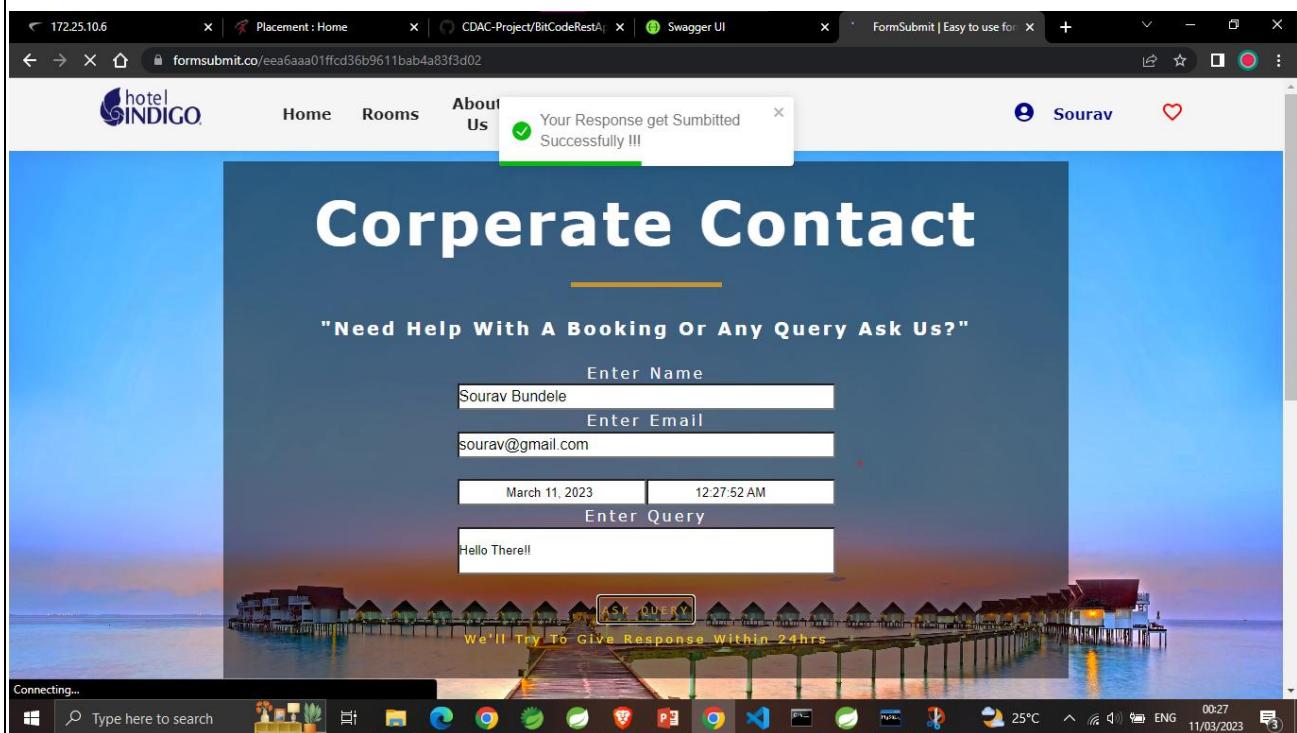
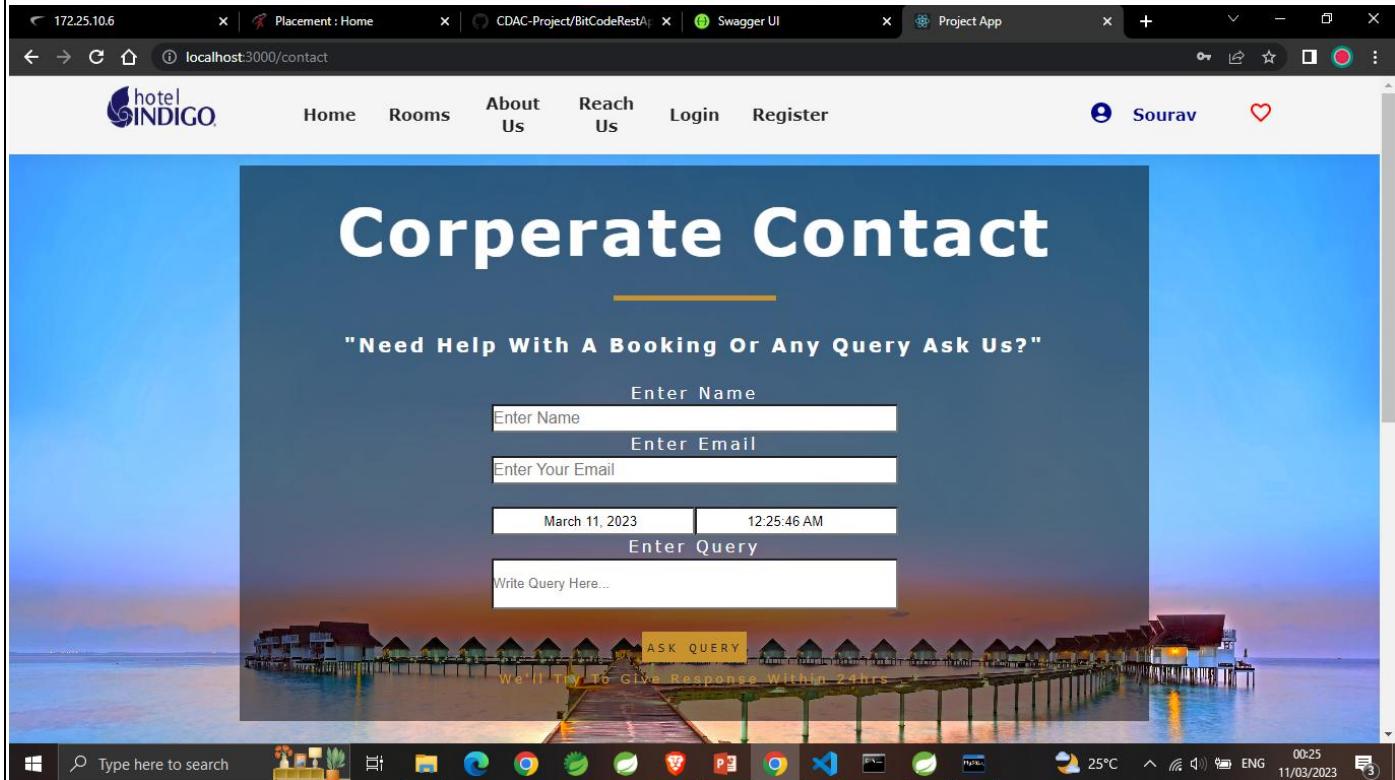
Client Page:

The screenshot shows a web browser window for the 'hotel INDIGO' client page. The URL is 'localhost:3000/home'. The header includes a logo for 'hotel INDIGO', navigation links for 'Home', 'Rooms', 'About Us', 'Reach Us', 'Login', and 'Register', and a user profile for 'Drax'. Below the header is a large banner with the text 'Luxurious Rooms' and 'Super Delux Rooms Starting At Rs.999' with a 'OUR ROOMS' button. The background of the banner is a scenic image of overwater bungalows at sunset. The Windows taskbar at the bottom shows various application icons.

Admin Page:

The screenshot shows a web browser window for the 'hotel INDIGO' admin page. The URL is 'localhost:3000/home'. The header includes a logo for 'hotel INDIGO', navigation links for 'Home', 'Rooms', 'Clients', 'Bookings', and 'Login', and a user profile for 'Admin'. Below the header is a large banner with the text 'Luxurious Rooms' and 'Super Delux Rooms Starting At Rs.999' with a 'OUR ROOMS' button. The background of the banner is a scenic image of overwater bungalows at sunset. The Windows taskbar at the bottom shows various application icons.

Reach Us/Contact us:



A screenshot of a web browser window. The address bar shows the URL formsubmit.co/eea6aaa01ffcd36b9611bab4a83f3d02. The main content area displays a "Almost There" message with a reCAPTCHA challenge. It asks the user to "Please help us fight spam by clicking the box below:" and contains a checkbox labeled "I'm not a robot". Below the checkbox is the reCAPTCHA logo and links for "Privacy" and "Terms". At the bottom of the page, there is a footer message "You are using FORMSUBMIT" with a hand cursor icon.

A screenshot of a web browser window. The address bar shows the URL https://formsubmit.co/?utm_source=formsubmit.co&utm_medium=site_link&utm_campaign=submission_page. The main content area displays a "Thanks!" message with the text "The form was submitted successfully. Return to original site: <http://localhost:3000/>". At the bottom of the page, there is a footer message "You are using FORMSUBMIT" with a hand cursor icon.

Profile:

Welcome Sir/Madam

ID No:2

Name:Sourav
Mb.No:9849865641
Email:Sourav@Gmail.Com
Expires:4/10/2023

[Update Profile](#)

(ID Is Valid Only For One Month)

[LOGOUT](#)

Client List:

Clients List

ID	Name	Email	Contact Number	EDIT	VIEW
1	Ram	Ram@Gmail.Com	9865321565	EDIT	VIEW
2	Sourav	Sourav@Gmail.Com	9849865641	EDIT	VIEW
3	Tony	Tony@Gmail.Com	6846648465	EDIT	VIEW
4	Rony	Rony@Gmail.Com	8648964873	EDIT	VIEW

Conclusion:

The project entitled HOTEL RESERVATION SYSTEM was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for room booking in hotels.

This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using React.js, usage of responsive templates, designing of web applications using spring boot JPA, and management of database using MySQL. The entire system is secured. Also, the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project.

This project has given us great satisfaction in having designed an application which can be implemented to any nearby hotels or resorts booking various kinds of rooms.

There is a scope for further development in our project to a great extent. A number of features can be added to this system in future like providing moderator more control over rooms so that each moderator can maintain their own rooms of that particular hotel. Another feature we wished to implement was it can be done for number of hotels in a single web app. System may keep track of history of room bookings of each Client and provide offers based on their history. These features could have implemented unless the time did not limit us.

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- [2] Mc Graw Hill's, Java: The complete reference 7thEdition, Herbert Scheldt
- [3] Complete CSS Guide, Maxine Sherrin and John Allsopp-O'ReillyMedia; September 2012

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- [1] www.Google.com
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- [3] www.javatpoint.com

