

Hotel-Taj(Hotel Management Project)

Team Members:

- Sameer
- Sudeepta
- Raju

1. Introduction

The Hotel-Taj project is a web-based application developed as part of our Advanced Java coursework. The primary aim of the project is to build a comprehensive **Hotel Management System** of a particular hotel and not chains of hotel, that caters to the needs of hotel administrators, staff, and customers. The system streamlines hotel booking processes, staff control and administrative tasks, thereby enhancing operational efficiency and customer experience.

The application is structured to handle tasks such as room booking, Staff services, admin controls, and data management using **JSP (Java Server Pages)**, **Servlets**, and **JDBC** for backend connectivity.

2. Team Contributions

This project was developed collaboratively by a group of three students:

- **Raju:** Focused on the **User Interface (UI)** part of the system. He designed and developed the front-end using HTML, CSS to make the interface user-friendly and visually appealing and designed the whole **Users** perspective where entering to booking to complete it.
- **Sameer:** Responsible for designing the **project flow**, which includes planning the application architecture, creating use cases, and deciding the sequence of actions and navigation among different modules of the system.
- **Sudeepta:** Handled **dataflow and backend connectivity**, including the integration of database operations using **JDBC**, ensuring data consistency, and building CRUD functionalities for different modules.

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Although each member had designated roles, the entire project was a result of **collaborative efforts**, with all three contributing ideas, testing, and debugging the application to ensure smooth functioning.

3. Project Overview

The Hotel-Taj system is divided into three primary portals:

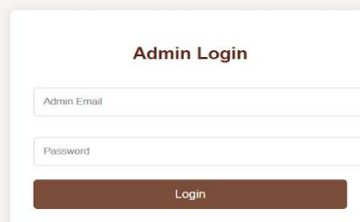
1. **Admin Portal**
2. **User Portal**
3. **Staff Portal**

Each portal has its own set of responsibilities and functionalities that interact with one another to provide a seamless hotel management experience.

4. Modules Description

A. Admin Portal

- Admin login authentication
- View and manage customer bookings
- Manage room categories, availability, and pricing
- Manage vendors and services
- Generate reports and analytics

A screenshot of the Admin Login form. The form is centered on a light beige background. It has a title "Admin Login" in bold. Below the title are two input fields: "Admin Email" and "Password". At the bottom of the form is a brown "Login" button.

Admin Login	
Admin Email	
Password	
Login	

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Hotel Taj Admin

Dashboard

Staff

Bookings

Billing

Rooms

Housekeeping

User

Logout

Welcome, Admin

Total Bookings

15

Confirmed Bookings

0

Cancelled Bookings

0

Dirty Rooms

1

Total Staff

0

Total Revenue

₹ 0.00

Defaulter Users

0

Avg. Guests / Booking

0.0

Hotel Taj Admin

Dashboard

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User

Logout

All Staff

[Add New Staff](#)

Search staff...

ID	Name	Email	Designation	Shift Type	Phone	Actions
3	Sameer Sagvekar	Sameer@gmail.com	Guest Relations Executive	Morning Shift	7894563210	Edit Delete

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All Bookings

ID	NAME	EMAIL	ROOM	CHECK-IN	CHECK-OUT	STATUS	ACTION
BK1747485139158	Raju Kumar	raju.pandit1174@gmail.com	Suite Room	2025-05-31	2025-06-07	CONFIRMED	Accept Reject
BK1747484969145	Raju Kumar	raju.pandit1174@gmail.com	Suite Room	2025-05-24	2025-05-25	CONFIRMED	Accept Reject
BK1747480340666	Makshad	makshad@gmail.com	Suite Room	2025-05-24	2025-05-25	CONFIRMED	Accept Reject
BK1747479551350	Demo	demo@gmail.com	Suite Room	2025-05-24	2025-05-31	CONFIRMED	Accept Reject
BK1747478812512	Demo	demo@gmail.com	Executive Room	2025-05-27	2025-05-28	CONFIRMED	Accept Reject
BK1747478383607	Raju Kumar	raju.pandit1174@gmail.com	Executive Room	2025-05-31	2025-06-01	CONFIRMED	Accept Reject
BK1747478123030	Raju	raju.pandit1174@gmail.com	Suite Room	2025-05-	2025-05-30	PENDING	Accept Reject

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Booking Payments

ID	Booking ID	Payment ID	Amount	Status	Date
BK1747485139158	order_QVzt3N6XLaoZMV	pay_QVztaZEqV8PRAI	₹7500.0	SUCCESS	2025-05-17 18:03:08.0
BK1747484969145	order_QVzq4ZkBs2utrP	pay_QVzqGzLf8HrHan	₹7500.0	SUCCESS	2025-05-17 18:00:00.0
BK1747480340666	order_QVyWZt7kNNGBwE	pay_QVyWn3ZJdHDGH	₹7500.0	SUCCESS	2025-05-17 16:42:55.0
BK1747479551350	order_QVyIhAhHn8SboK	pay_QVyInuZPrSdc6x	₹7500.0	SUCCESS	2025-05-17 16:35:02.0
BK1747478812512	order_QVy5fmMrFqhOo7	pay_QVy5mTPM78v6VA	₹6000.0	SUCCESS	2025-05-17 16:17:20.0
BK1747478383607	order_QVxy7Qiesx3l8k	pay_QVxyTuo0viyvoA	₹6000.0	SUCCESS	2025-05-17 16:10:23.0
BK1747477928266	order_QVxq7gZPBKvExZ	pay_QVxqQcOwen04Oy	₹400000.0	SUCCESS	2025-05-17 16:02:46.0
BK1747467327301	order_QVupTOZP0Y6Pkg	pay_QVupmpcbTWfqQ7	₹750000.0	SUCCESS	2025-05-17 13:06:05.0
BK1747466885588	order_QVupTOZP0Y6Pkg	pay_QVupmpcbTWfqQ7	₹750000.0	SUCCESS	2025-05-17 13:06:05.0

Room Inventory

Add Room

ID	Room Number	Type	Status	Cleaning Status	Actions
1	1	Suite Room	booked	CLEAN	Edit Delete
2	101	Suite Room	available	DIRTY	Edit Delete

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Add Room

Room Number:

Room Type:

Deluxe Room

Status:

Available

Cleaning Status:

CLEAN

Add Room

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User Profile & Booking History

raju.pandit1174@gmail.com

Search

Raju Kumar

Email: raju.pandit1174@gmail.com

Phone: 7061445610

Address: India, Kolkata

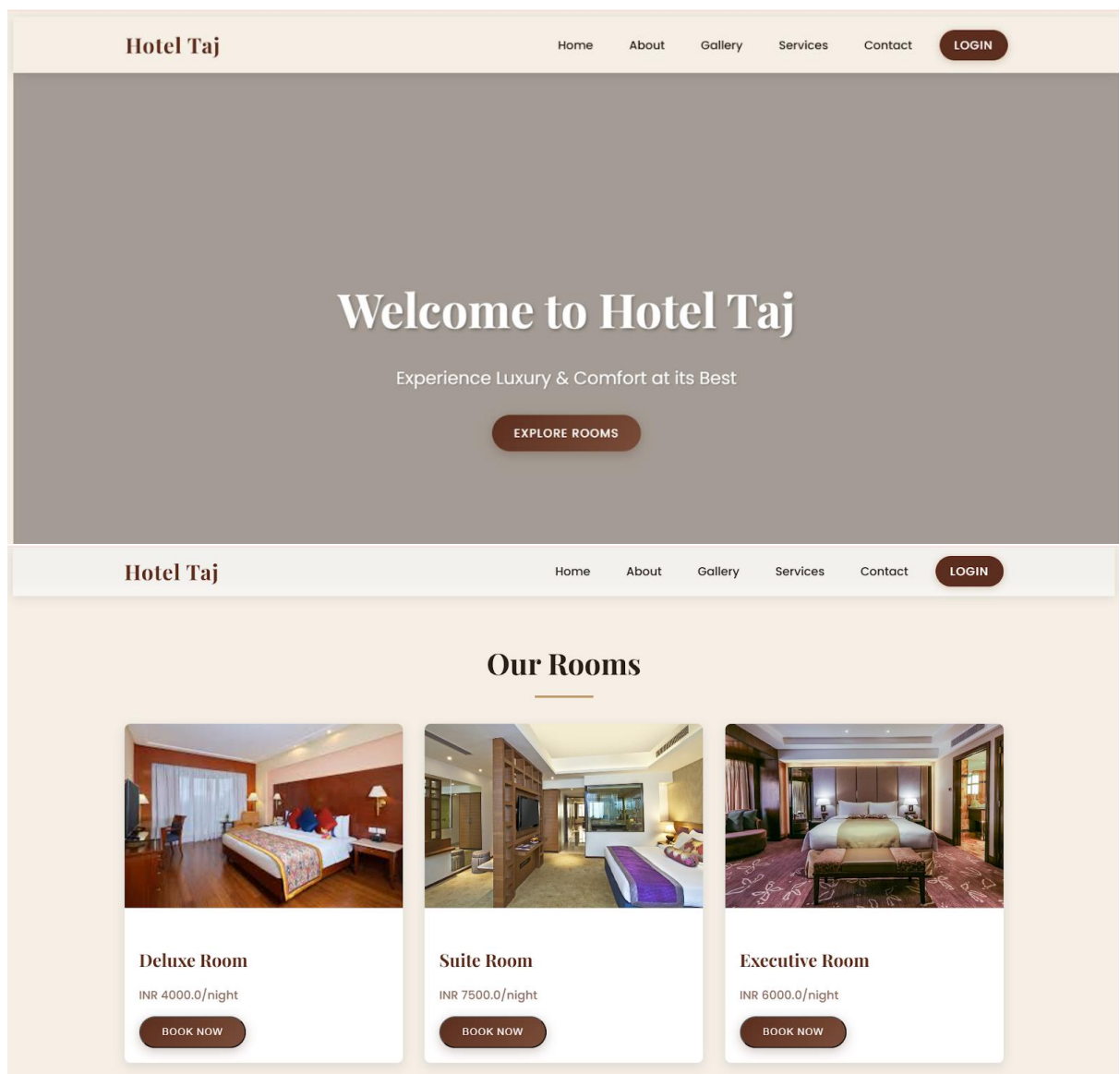
Booking History

Booking ID	Room	Check-In	Check-Out	Status	Amount	Payment Status	Booked On
BK1747485139158	Suite Room	2025-05-31	2025-06-07	CONFIRMED	₹7500.0	SUCCESS	2025-05-17 18:02:19.0
BK1747494060145	Suite Room	2025-05-24	2025-05-25	CONFIRMED	₹7500.0	SUCCESS	2025-05-17 17:50:20.0

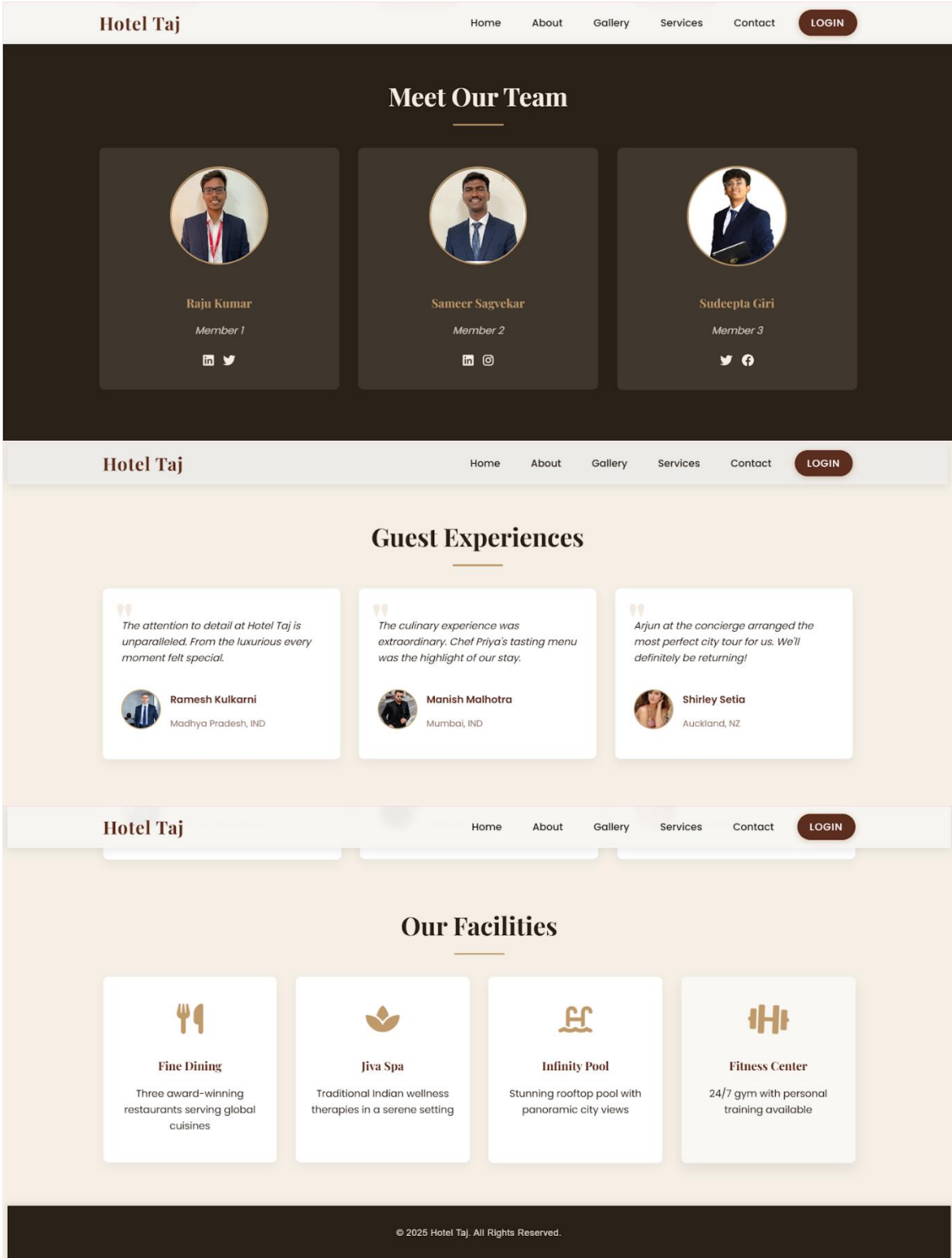
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B. User Portal

- User registration and login
- Browse available rooms and services
- Room booking with date and room type selection
- Payment simulation (dummy integration)
- View booking history and status



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About Us

Welcome to **TAJ HOTEL**, where luxury meets serenity. Established in 2025, our hotel has become a symbol of excellence in hospitality and comfort. Whether you're traveling for business or leisure, we are committed to making your stay unforgettable.

Located in the heart of the city, our hotel features world-class amenities including deluxe rooms, gourmet dining, conference facilities, a spa, and a rooftop pool with breathtaking views. We take pride in our attention to detail, customer-first approach, and the warm hospitality we offer to every guest.

Our team is available 24/7 to ensure your comfort and convenience. Discover the elegance and charm of a perfect stay—only at **TAJ HOTEL**.

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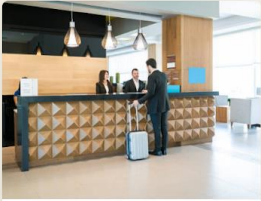
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Image Gallery




Reception Area




Deluxe Room





Swimming Pool




Hotel Lounge









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Our Exceptional Services

Where luxury meets comfort – explore the world-class amenities we offer




Spa & Wellness

Rejuvenate your body and soul with our holistic spa treatments and serene ambiance.




Fine Dining


Indulge in gourmet cuisine curated by world-class chefs across multiple dining venues.




24/7 Room Service

Our dedicated team ensures your every need is met – anytime, day or night.







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LOGIN

Contact Us

Your Name

Your Email

Subject

Your Message

SEND MESSAGE

K J Somaiya Institute of Mana...

Somaiya Vidyavihar University, Vidy...

Vihar East, Mumbai, Maharashtra

400077

4.5 ★★★★★ 456 reviews

View larger map

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Login to Your Account

Email

Password

Login

Don't have an account? Register here

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Demo

Complete Your Booking

Suite Room

INR 7500.0 / night

Room Features

Your Information

Full Name

Demo

Email

demo@gmail.com

Phone Number

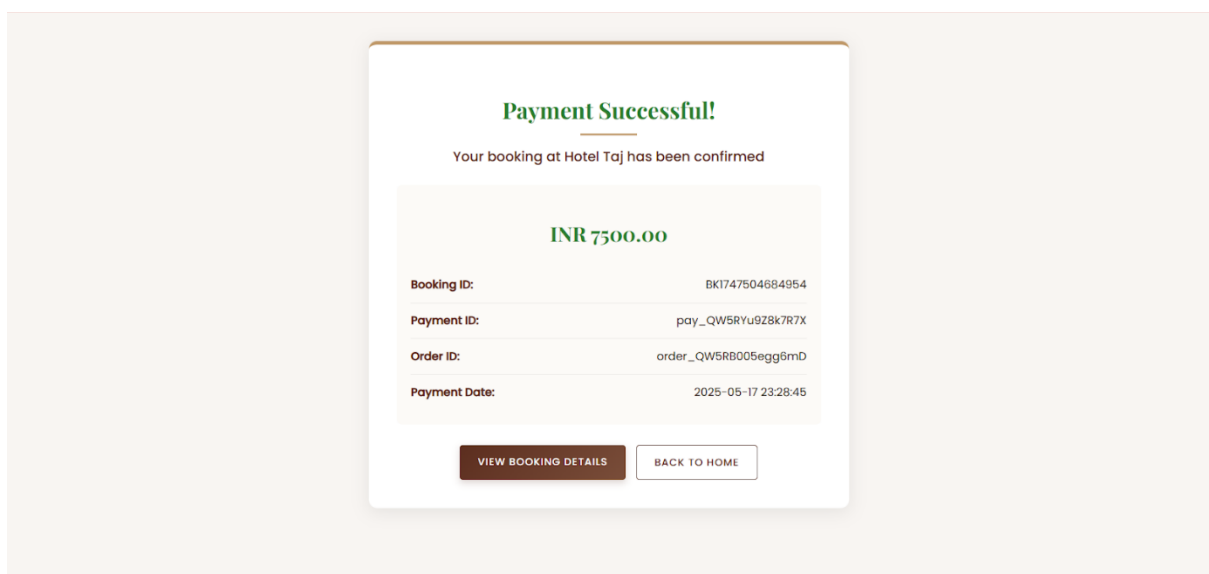
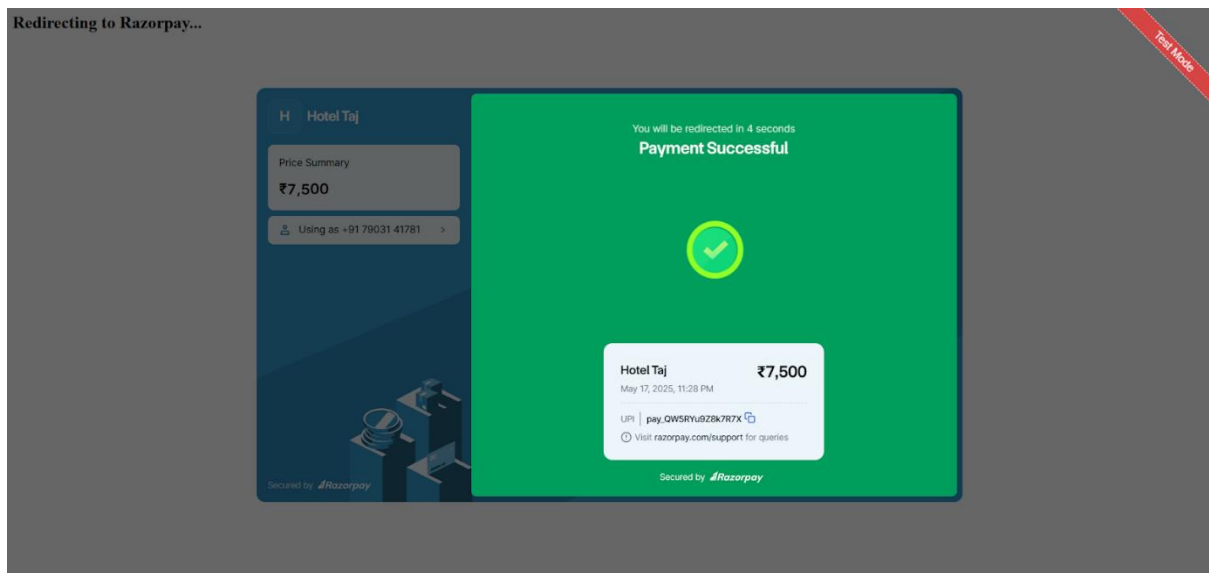
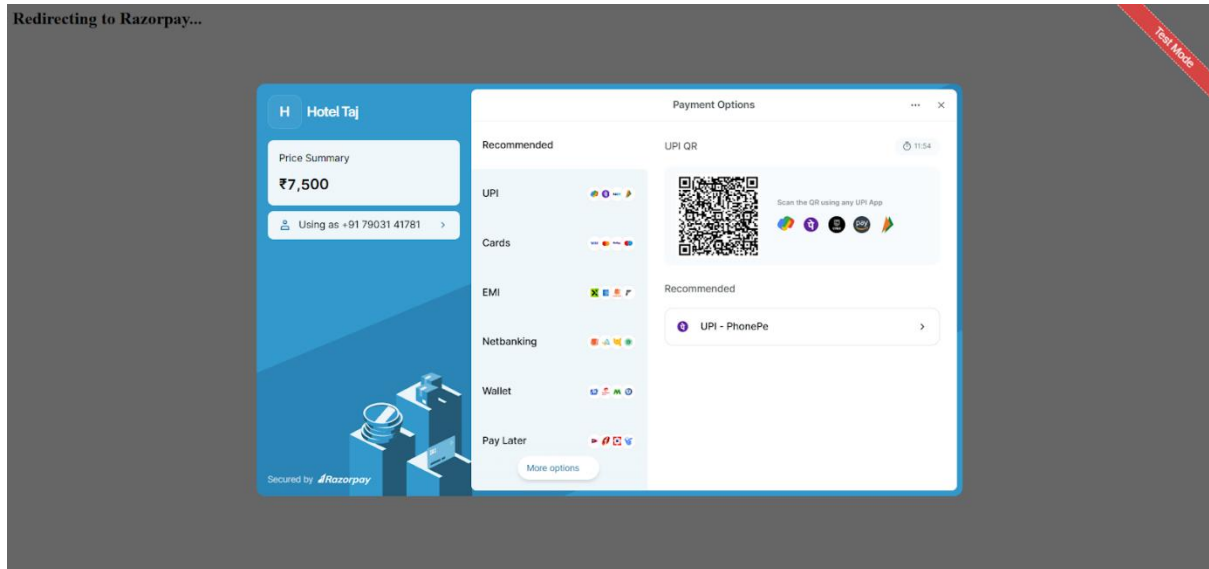
1234567890

Address

Naidu Colony,Mumbai,Maharashtra

City

Hotel-Taj(Hotel Management Project)



Hotel-Taj(Hotel Management Project)

Recent Booking Details

Booking ID	BK1747504684954
Full Name	Demo
Email	demo@gmail.com
Phone	7903141781
City	Mumbai
Room Name	Suite Room
Room Price	INR 7500.0
Check-In	2025-05-17
Check-Out	2025-05-18
Guests	2
ID Card	Aadhar Card - 761268042268
Special Requests	Can we bring pet with us
Payment ID	pay_QW5RYu9Z8k7R7X

Guests	2
ID Card	Aadhar Card - 761268042268
Special Requests	Can we bring pet with us
Payment ID	pay_QW5RYu9Z8k7R7X
Order ID	order_QW5RB005egg6mD
Amount Paid	INR 7500.0
Payment Date	2025-05-17 23:28:45



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[Refresh Booking](#)

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User Profile

Full Name:

Demo

Email:

demo@gmail.com

Phone Number:

1234567890

Address:

Naidu Colony,Mumbai,Maharashtra

City:

Mumbai

ID Card Type:

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City:

Mumbai

ID Card Type:

Aadhar Card

ID Card Number:

761268042268

ID Card Front Image:

Choose file

No file chosen

ID Card Back Image:

Choose file

No file chosen

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Your Booking History

Room	Check-In	Check-Out	Guests	Status	Action
Suite Room	2025-05-17	2025-05-18	2	CONFIRMED	<div>View Details</div>
Suite Room	2025-05-24	2025-05-31	2	CONFIRMED	<div>View Details</div>
Executive Room	2025-05-27	2025-05-28	2	CONFIRMED	<div>View Details</div>
Deluxe Room	2025-05-17	2025-05-17	2	CONFIRMED	<div>View Details</div>
Deluxe Room	2025-05-17	2025-05-17	2	PENDING	<div>View Details</div>
Suite Room	2025-05-24	2025-05-29	2	CONFIRMED	<div>View Details</div>
Suite Room	2025-05-24	2025-06-07	2	CONFIRMED	<div>View Details</div>
Suite Room	2025-05-23	2025-05-24	2	PENDING	<div>View Details</div>
Executive Room	2025-05-18	2025-05-19	2	PENDING	<div>View Details</div>

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Your Booking History

Booking ID	Room Name	Check-in	Check-out	Guests	Status	Action
BK1747504684954	Suite Room	2025-05-17	2025-05-18	2	CONFIRMED	<div>View</div>
BK1747479551350	Suite Room	2025-05-24	2025-05-31	2	CONFIRMED	<div>View</div>
BK1747478812512	Executive Room	2025-05-27	2025-05-28	2	CONFIRMED	<div>View</div>
BK1747464608598	Deluxe Room	2025-05-17	2025-05-17	2	CONFIRMED	<div>View</div>
BK1747464607298	Deluxe Room	2025-05-17	2025-05-17	2	PENDING	<div>View</div>
BK1747464216341	Suite Room	2025-05-24	2025-05-29	2	CONFIRMED	<div>View</div>
BK1747463999716	Suite Room	2025-05-24	2025-06-07	2	CONFIRMED	<div>View</div>
BK1747463816333	Suite Room	2025-05-23	2025-05-24	2	PENDING	<div>View</div>

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Booking Detail


Room Information

Room Name:

Suite Room


Price:

₹7500 per night



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Booking Info

Check-in:

2025-05-17

Check-out:

2025-05-18

Guests:

2

Special Requests:

Can we bring pet with us

Status:

CONFIRMED

Booking Date:

2025-05-17 23:28:04

User Info

Full Name:

Demo

Email:

demo@gmail.com

Phone:


7903141781

Address:

Naidu Colony,Mumbai,Maharashtra, Mumbai

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 Demo ▾

Full Name:

Demo

Email:

demo@gmail.com

Phone:

7903141781

Address:

Naidu Colony,Mumbai,Maharashtra, Mumbai

ID:

Aadhar Card - 761268042268

Payment Info

Order ID:

order_QW5R8005egg6mD

Payment ID:

pay_QW5RYu9Z8k7R7X

Amount Paid:

₹7500.00

Payment Status:

SUCCESS

Payment Date:

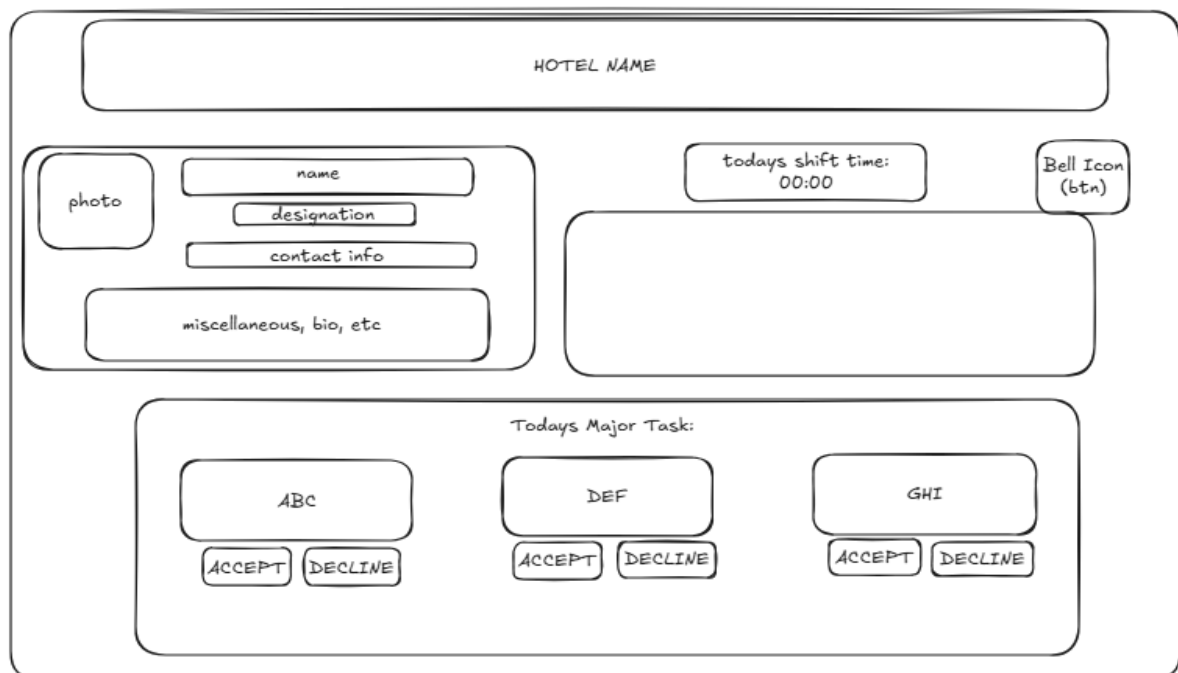
2025-05-17 23:28:45

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C. Staff Portal

- Staff login
- Manage assigned services (e.g., housekeeping, maintenance)
- Update service status
- Communicate with the admin and report issues
- So one problem occurred while integrating this part but providing with the UI dashboard we were trying to make.



- a staff dashboard module where we would be showing photos, name designation contact information and miscellaneous, etc as a read only and that would be fetched from database and this would be constant wont be updated unless the admin does it.
- the today's shift time box will be updated when the admin updates it.
- the bell icon is basically the notification panel where the admin will implicitly send a emergency text for some work or meetings. onClicking the button it should display the text in the empty box space as shown in the diagram.
- in todays major task the admin will assign works to be done by that particular staff. and once done the staff can mark as done or decline. once any button is clicked it should update it on database. everything would be in view/read mode and just the bell icon and task completion button should be clickable.

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5. Technologies Used

- **Frontend:**
 - HTML, CSS
- **Backend:**
 - Javascript
 - Java (JSP, Servlet)
- **Database:**
 - MySQL(xamp)
- **Server:**
 - Apache Tomcat
- **Tools:**
 - IntelliJ IDEA
 - XAMPP (for MySQL)
 - Razorpay API

6. Challenges Faced

- **UI Consistency:** Initially, integrating UI across modules led to inconsistencies. Raju took the lead in resolving these by standardizing styles and layouts.
- **Session Management:** Ensuring secure and effective session handling for different users was a challenge addressed during the project flow planning by Sameer.
- **Database Connectivity:** Handling concurrency and error handling in database connections was managed efficiently by Sudeepta using prepared statements and proper connection pooling.
- Although there were many challenges but the very main challenge was to integrate the ideas implemented on three different machines(Raju, Sameer, Sudd).

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6. Conclusion

The Hotel-Taj project was a valuable learning experience where we explored the core concepts of Advanced Java, including Servlets, JSP, session management, and JDBC database connectivity. By working in a team, we practiced real-world collaboration, code integration, and debugging in a shared development environment.

We are proud to have developed a fully functional Hotel Management System that simulates a real-life application scenario. All three team members—Sameer, Sudeepta, and Raju—worked with dedication and mutual support, contributing their strengths to different parts of the project and learning a lot in the process.

GitHub Link::

<https://github.com/sagvekarsameer/Hotel-Management.git>

Alsoo, we don't have any specific WAR file as we have made in MAVEN ARCHTYPE.