

HOTEL PROJECT

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ROBLAX HOTEL BOOKING SYSTEM



The Roblax Hotel Booking System is a web-based application designed to simplify and automate the process of hotel reservations, room management, and customer service. This system enables users to browse available rooms, check room details, book or cancel reservations, and receive confirmation instantly. Administrators can manage hotel room inventory, monitor booking status.

The system is designed to streamline hotel operations by automating booking processes, minimizing human error, and preventing issues like double-booking. It enhances productivity and delivers a seamless experience for both hotel staff and guests. Additionally, it supports deployment for individual hotels or chains, with secure, role-based access for administrators, receptionists, and customers.

User Module (Customers)

- Security: Secure login, data encryption, and session management.
- Room Browsing: View available rooms with images, descriptions, and prices.
- Search & Filter: Filter rooms by type, price, wifi, or availability dates.
- Calendar View: Visual calendar of room availability and bookings.
- Booking: Reserve rooms online with real-time availability checks.
- Payment Integration: Accept payments via credit card, digital wallets or cash on arrival.
- Booking History: View current, past, and cancelled bookings.
- Cancellation: Cancel reservations.
- Preview Invoice: Receive booking confirmation and updates.

FEATURES OVERVIEW



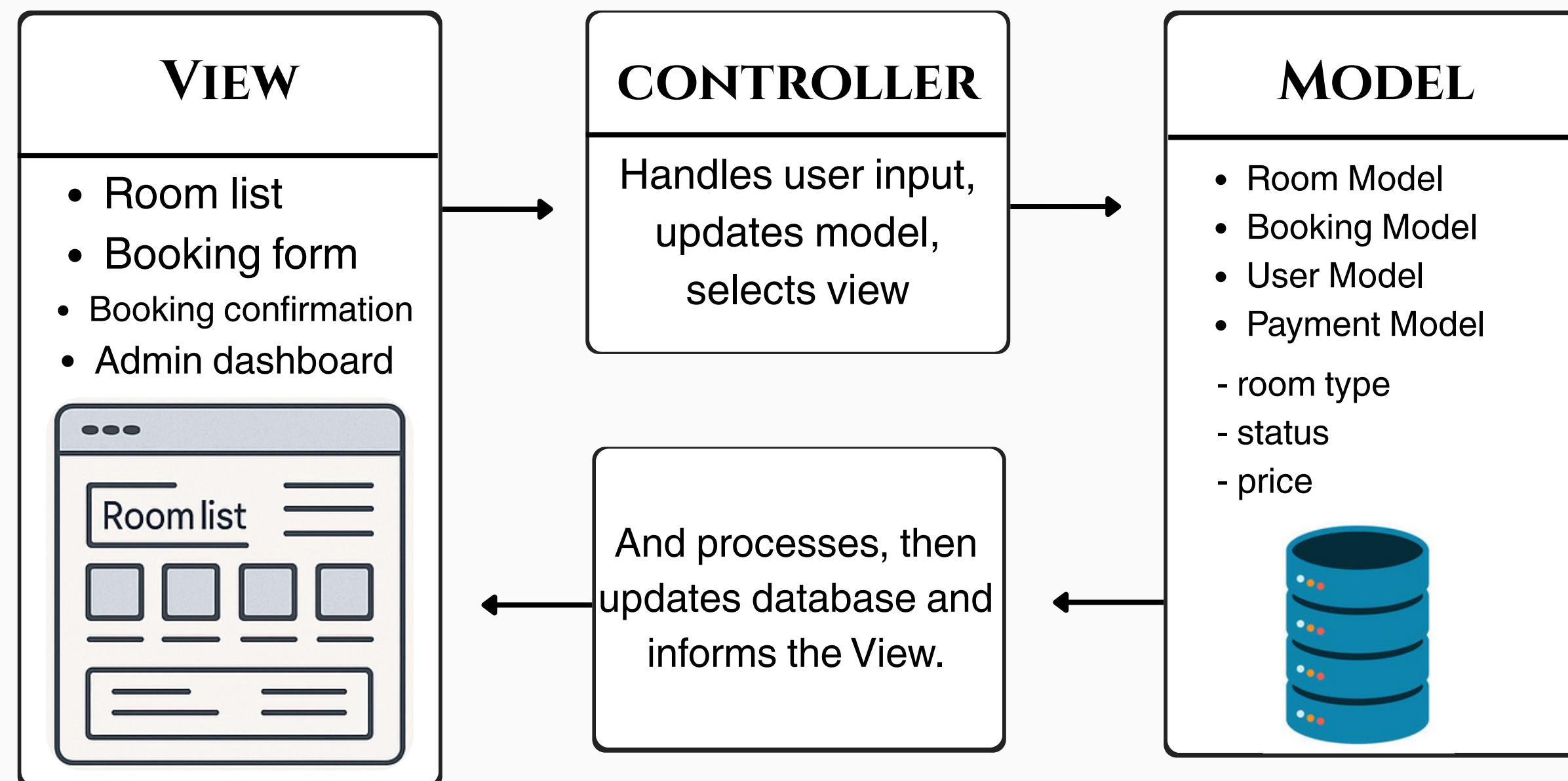
Admin Module

- Dashboard Overview: Monitor bookings, occupancy rates, and revenue.
- Room Management: Add, update, or delete room types and availability.
- Booking Management: View and manage all customer bookings.
- Customer Management: View customer details and booking history.
- Check-In/Check-Out: Manage the process of guest arrivals and departures.
- Reports Generation: Export reports for occupancy, revenue, and customer data.
- Role-Based Access: Assign roles to staff (e.g., receptionist, manager, admin).

FEATURES OVERVIEW



SYSTEM ARCHITECTURE: MVC



SYSTEM ARCHITECTURE: MVC



MODEL (M)

The Model represents the data layer. It manages the data, logic, and rules of the application. In the Roblax hotel booking system :

- Room Model - Handles room data (room title, description, price, room type, wifi, image)
- Booking Model - Manages reservations and cancellations
- User Model - Stores customer and staff details
- Payment Model - Manages payment records
- Contact Model - Manages inquiries and communication.
- Gallery Model - Handles the images showcasing the hotel.
- Invoice Model - Deals with generating and managing bills.

These models interact directly with the database.



SYSTEM ARCHITECTURE: MVC

VIEW (V)

The View is responsible for displaying data to the user. It consists of HTML/CSS/JS templates that show:

- Lists of available rooms
- Booking forms
- Admin dashboards
- Booking confirmations

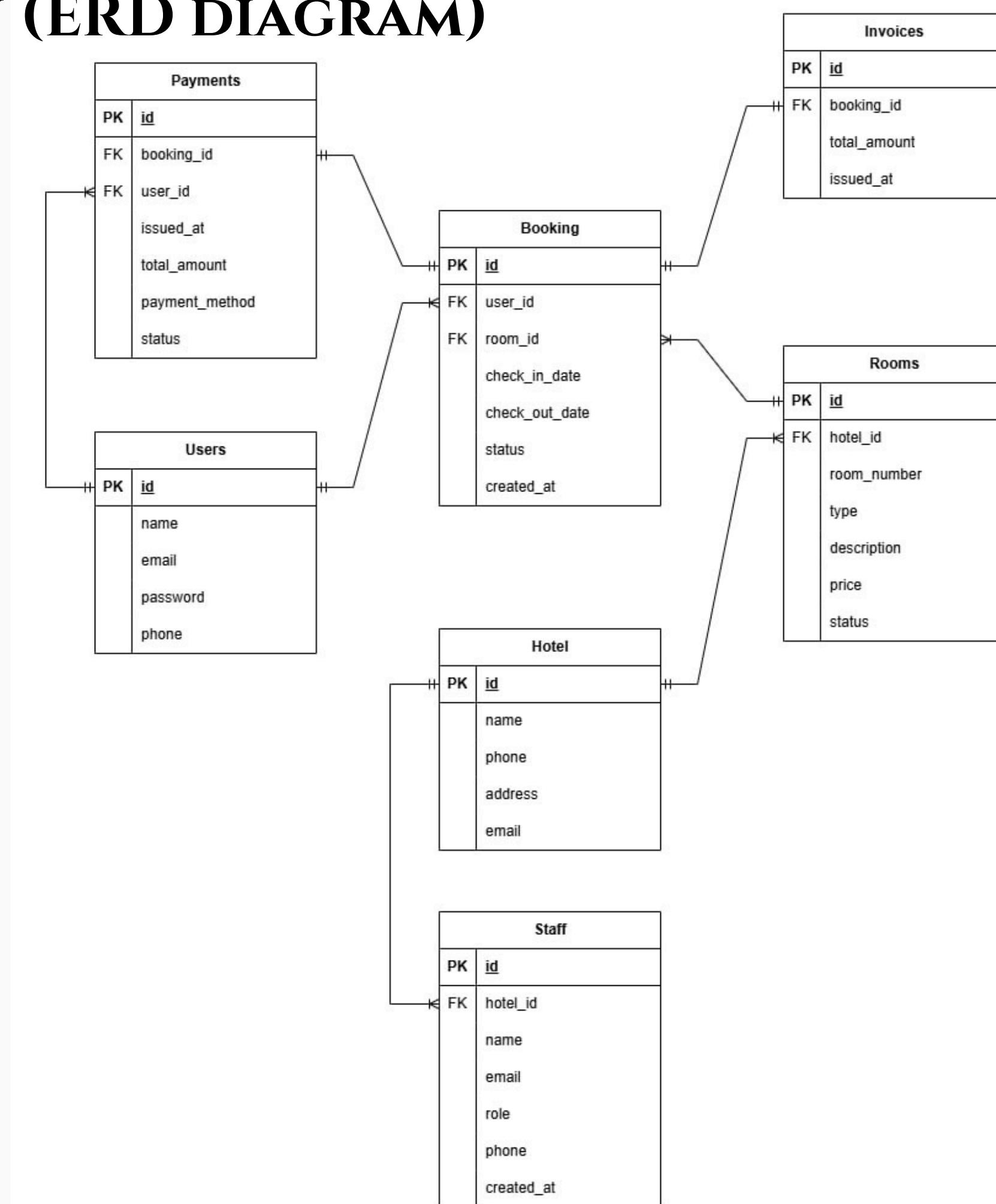
Views present data received from the Controller and are updated dynamically based on user actions.

CONTROLLER (C)

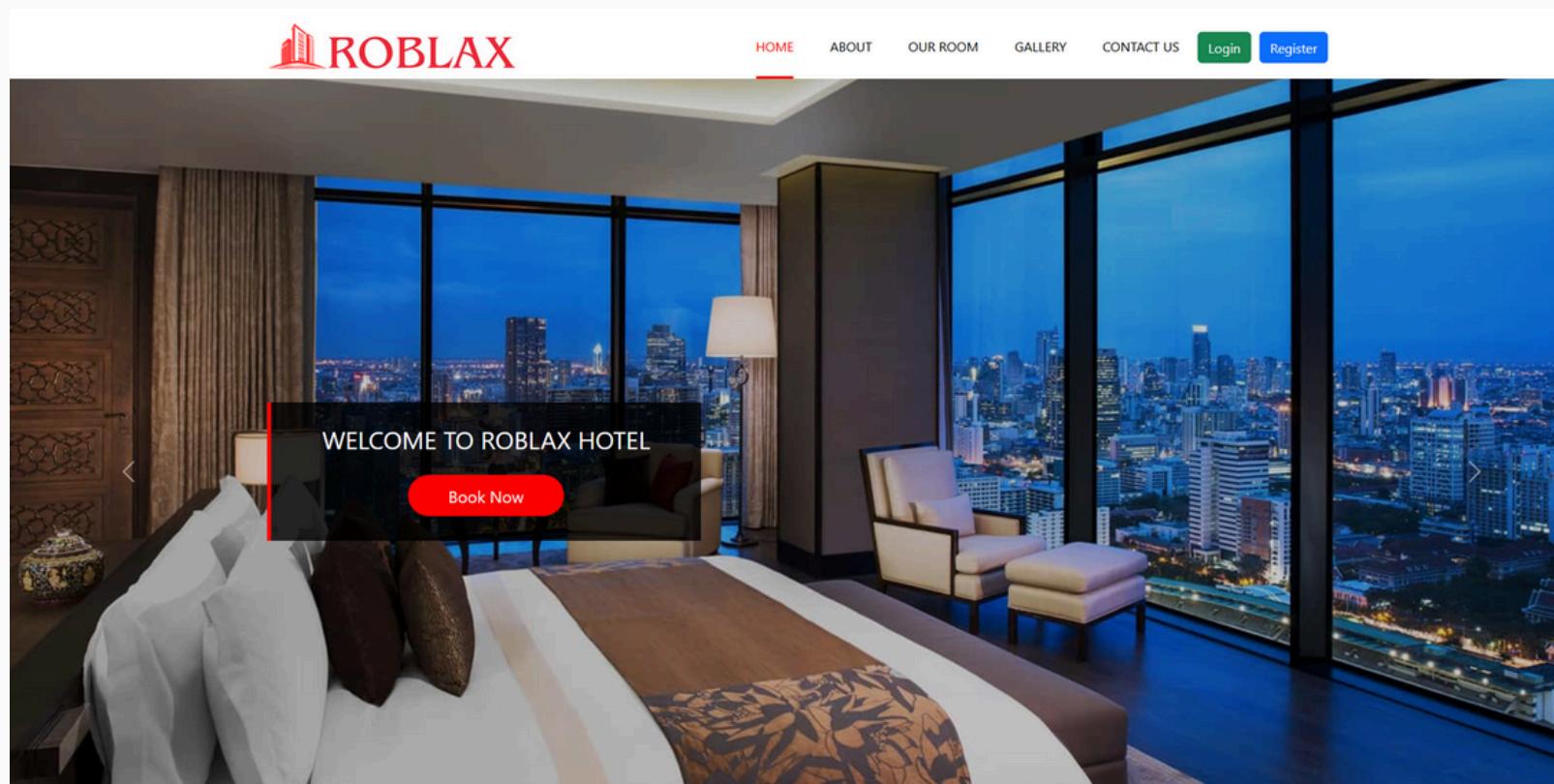
The Controller acts as a bridge between the Model and the View. It handles user inputs, processes requests, and updates the Model or View accordingly. Examples:

- When a user submits a booking form, the controller validates input, creates a booking via the model, and redirects to a confirmation view.
- For admin actions like adding a room, the controller accepts the form data, updates the database, and refreshes the room list view.

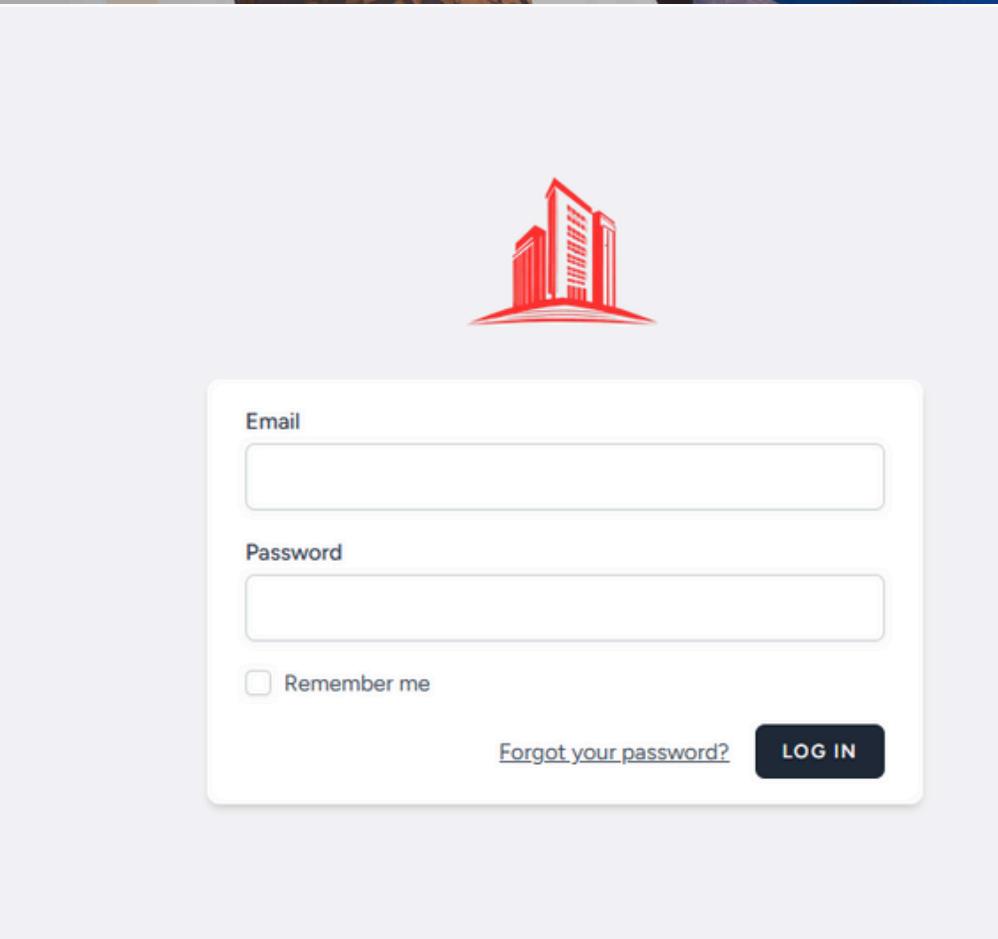
DATABASE DESIGN (ERD DIAGRAM)



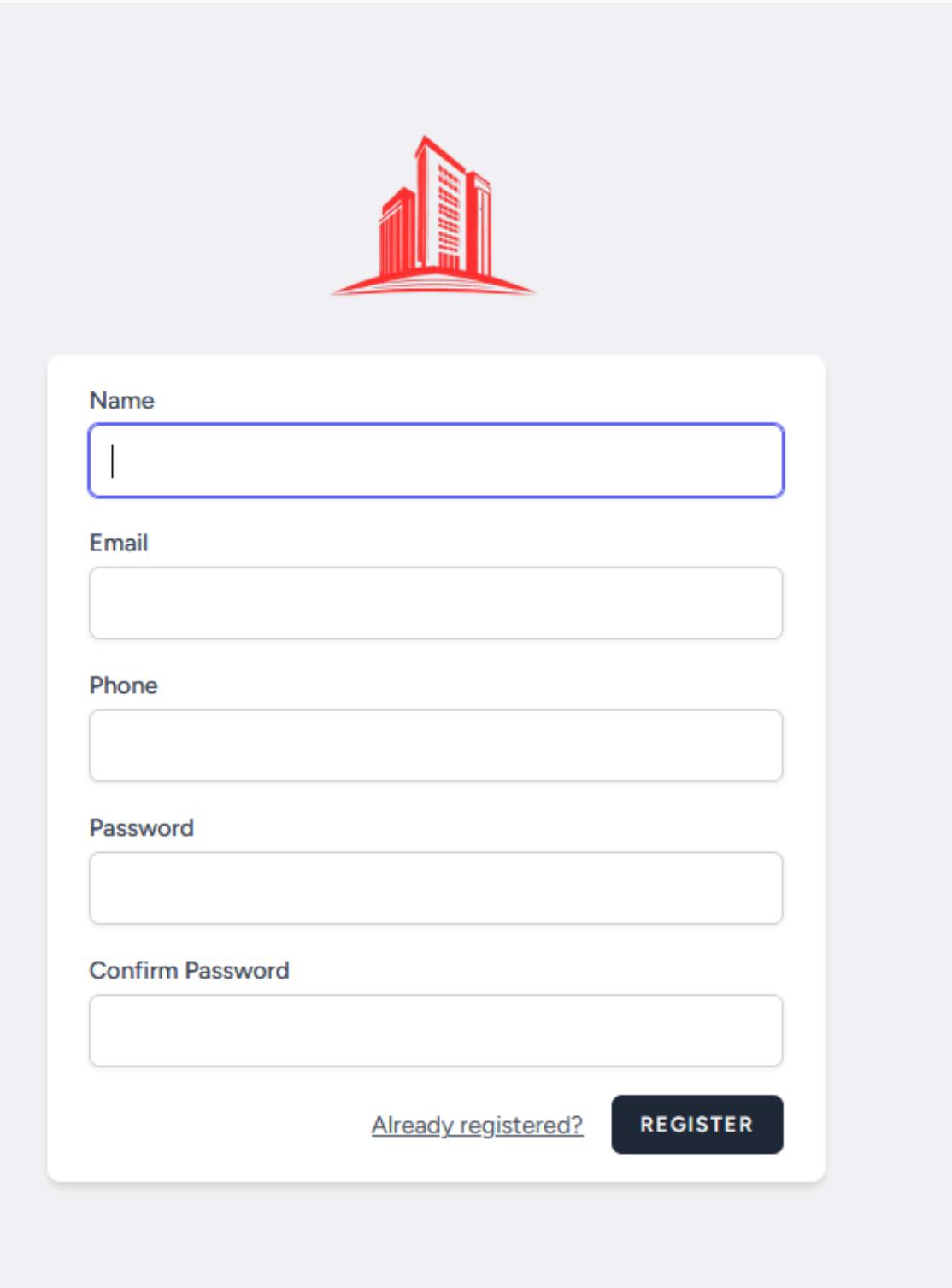
SCREENSHOTS OF IMPORTANT PAGES



The home page features a large image of a hotel room with a double bed, a large window overlooking a city skyline at night, and a red 'Book Now' button overlaid on the left side.



The login page includes fields for Email and Password, a 'Remember me' checkbox, and links for 'Forgot your password?' and 'LOG IN'.



The registration page contains fields for Name, Email, Phone, Password, and Confirm Password. It also includes a link for 'Already registered?' and a 'REGISTER' button.

SCREENSHOTS OF IMPORTANT PAGES

OUR ROOM

Explore our various room options to find the perfect stay.

Regular Premium Deluxe

OUR ROOM

Room 01

Free wifi: No

Room Type: Regular

Price per night: ₱150

OUR ROOMS

Explore our available rooms and filter based on your preferences.

Regular Room Name Min Price Max Price Wi-Fi Filter Reset

Room 01
Price: ₱150
Type: Regular
Wifi: No
[Room Details](#)

Room 02
Price: ₱180
Type: Regular
Wifi: Yes
[Room Details](#)

Book Room

Unavailable Dates:
This room is currently **available** for all dates.

Name: Johnsuico

Email: johnsuico@example.com

Phone: 12345678910

Start Date: mm / dd / yyyy

End Date: mm / dd / yyyy

Notes (optional):

Total Price: ₱150

[Book Room](#)

PAYMENT

Please select your preferred payment method below

Room 01

Check-in: May 18, 2025

Check-out: May 20, 2025

Nights: 2

Total: ₱300.00

Select Payment Method
-- Choose --

[Confirm Payment](#)

SCREENSHOTS OF IMPORTANT PAGES

My Bookings

Payment successful and invoice generated.

Room: Room 02
Start Date: May 23, 2025
End Date: May 27, 2025
Nights: 4
Status: Waiting
Payment Method: cash
Payment Status: Pending
Total Price: ₱720.00 ([To Pay on Arrival](#))

[Cancel Booking](#)

CONTACT US

Name

Email

Phone Number

Message

SEND

Invoice

Invoice #: INV-TCRCLVMQ
Issued: May 18, 2025

Customer Information

Name: Johnsuioco

Email: johnsuico@example.com

Phone: 12345678910

Status: Waiting

Room Booking Details

Room: Room 03

Type: Premium

Check-in: 2025-05-19

Check-out: 2025-05-23

Nights: 4

Total Paid: ₱1,000.00

Thank you for booking with us.
This invoice was generated automatically.

SCREENSHOTS OF IMPORTANT PAGES

ADMIN ←

Welcome Admin

Main

- Home
- Hotel Rooms
 - Add Rooms
 - View Rooms
- Manage Staff
 - Add Staff
 - View Staff
- Bookings
- Gallery
- Messages
- Payments

Add Rooms

Room Title:

Description:

Price:

Room Type: Regular

Free Wifi: Yes

Upload Image: No file selected.

Room Title	Description	Price	Wifi	Room Type	Image	Delete	Update
Room 01		P150	No	Regular		<input type="button" value="Delete"/>	<input type="button" value="Update"/>
Room 02		P180	Yes	Regular		<input type="button" value="Delete"/>	<input type="button" value="Update"/>
Room 03		P250	Yes	Premium		<input type="button" value="Delete"/>	<input type="button" value="Update"/>
Room 04		P280	Yes	Premium		<input type="button" value="Delete"/>	<input type="button" value="Update"/>
Room 05		P350	Yes	Deluxe		<input type="button" value="Delete"/>	<input type="button" value="Update"/>

Create Staff Account

Name:

Email:

Phone (optional):

Password:

Confirm Password:

Job Role: e.g. receptionist, cook

Usertype: Staff

Name	Email	Phone	Role	Usertype	Delete	Update
admin	admin@example.com	12345678910	-	Admin	<input type="button" value="Delete"/>	<input type="button" value="Update"/>
Paul	paul@example.com		Receptionist	Staff	<input type="button" value="Delete"/>	<input type="button" value="Update"/>

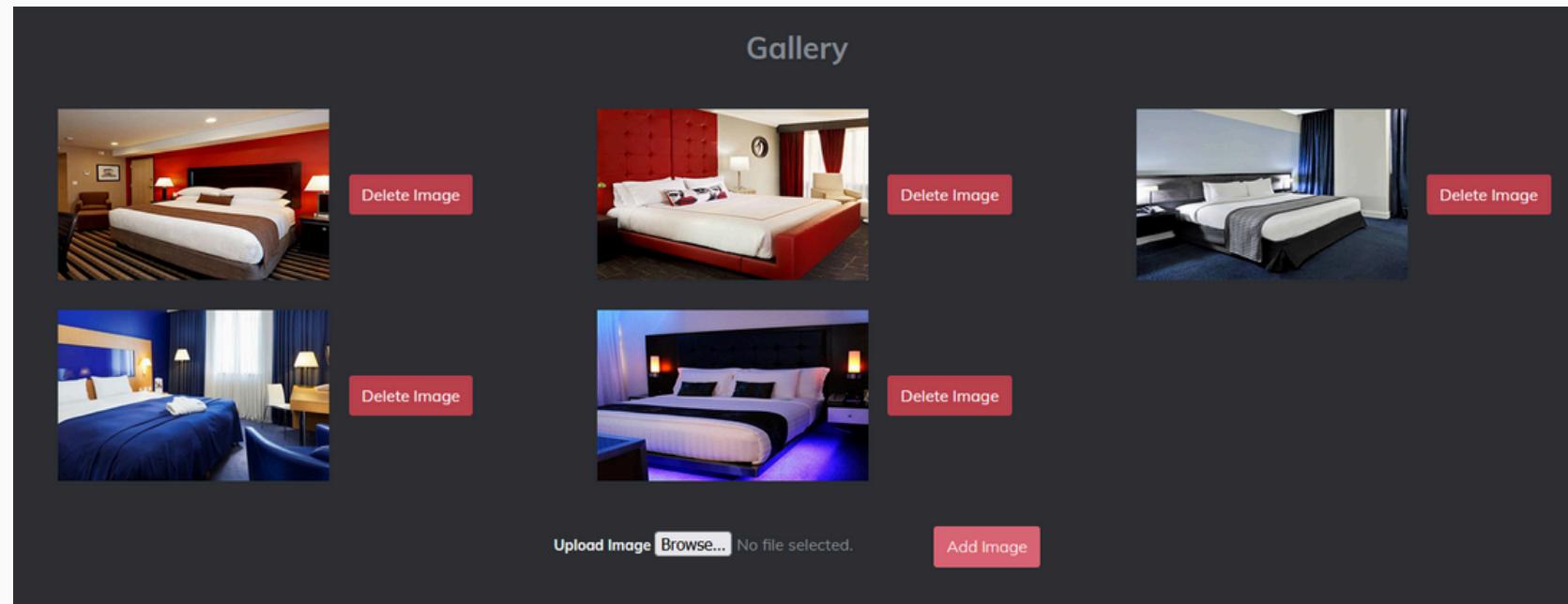
SCREENSHOTS OF IMPORTANT PAGES

Bookings

Room ID	Customer Name	Email	Phone	Arrival Date	Leaving Date	Nights	Room Title	Room Price	Total Price	Status	Image	Delete	Status Update
2	Johnsuico	johnsuico@example.com	12345678910	2025-05-23	2025-05-27	4	Room 02	₱180.00	₱720.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>
3	Johnsuico	johnsuico@example.com	12345678910	2025-05-19	2025-05-23	4	Room 03	₱250.00	₱1,000.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>
1	Johnsuico	johnsuico@example.com	12345678910	2025-05-18	2025-05-20	2	Room 01	₱150.00	₱300.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>

Messages

Name	Email	Phone	Message	Send Email



Payment Transactions

ID	User	Email	Booking ID	Room	Total Paid	Method	Status	Paid At
3	Johnsuico	johnsuico@example.com	4	Room 01	₱300.00	Credit_card	Completed	May 18, 2025 02:23 PM
2	Johnsuico	johnsuico@example.com	3	Room 03	₱1,000.00	Paypal	Completed	May 18, 2025 12:56 PM
1	Johnsuico	johnsuico@example.com	2	Room 02	₱720.00	Cash	Pending	Mark as Paid N/A

SCREENSHOTS OF IMPORTANT PAGES

Bookings

Room ID	Customer Name	Email	Phone	Arrival Date	Leaving Date	Nights	Room Title	Room Price	Total Price	Status	Image	Delete	Status Update
2	Johnsuico	johnsuico@example.com	12345678910	2025-05-23	2025-05-27	4	Room 02	P180.00	P720.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>
3	Johnsuico	johnsuico@example.com	12345678910	2025-05-19	2025-05-23	4	Room 03	P250.00	P1,000.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>
1	Johnsuico	johnsuico@example.com	12345678910	2025-05-18	2025-05-20	2	Room 01	P150.00	P300.00	Waiting		<button>Delete</button>	<button>Approve</button> <button>Reject</button>

Messages

Name	Email	Phone	Message	Send Email

Gallery

Delete Image

Delete Image

Delete Image

Delete Image

Delete Image

No file selected.

Payment Transactions

ID	User	Email	Booking ID	Room	Total Paid	Method	Status	Paid At
3	Johnsuico	johnsuico@example.com	4	Room 01	P300.00	Credit_card	Completed	May 18, 2025 02:23 PM
2	Johnsuico	johnsuico@example.com	3	Room 03	P1,000.00	Paypal	Completed	May 18, 2025 12:56 PM
1	Johnsuico	johnsuico@example.com	2	Room 02	P720.00	Cash	Pending	<button>Mark as Paid</button> N/A