Hotel Booking and Management Platform – Project Overview

Project Overview

Purpose: To provide users with a convenient, fast, and secure way to search, book, and manage hotel reservations online.

System Type: Web-based booking platform (currently prototyped in Figma, future backend in Django)

Stakeholders:

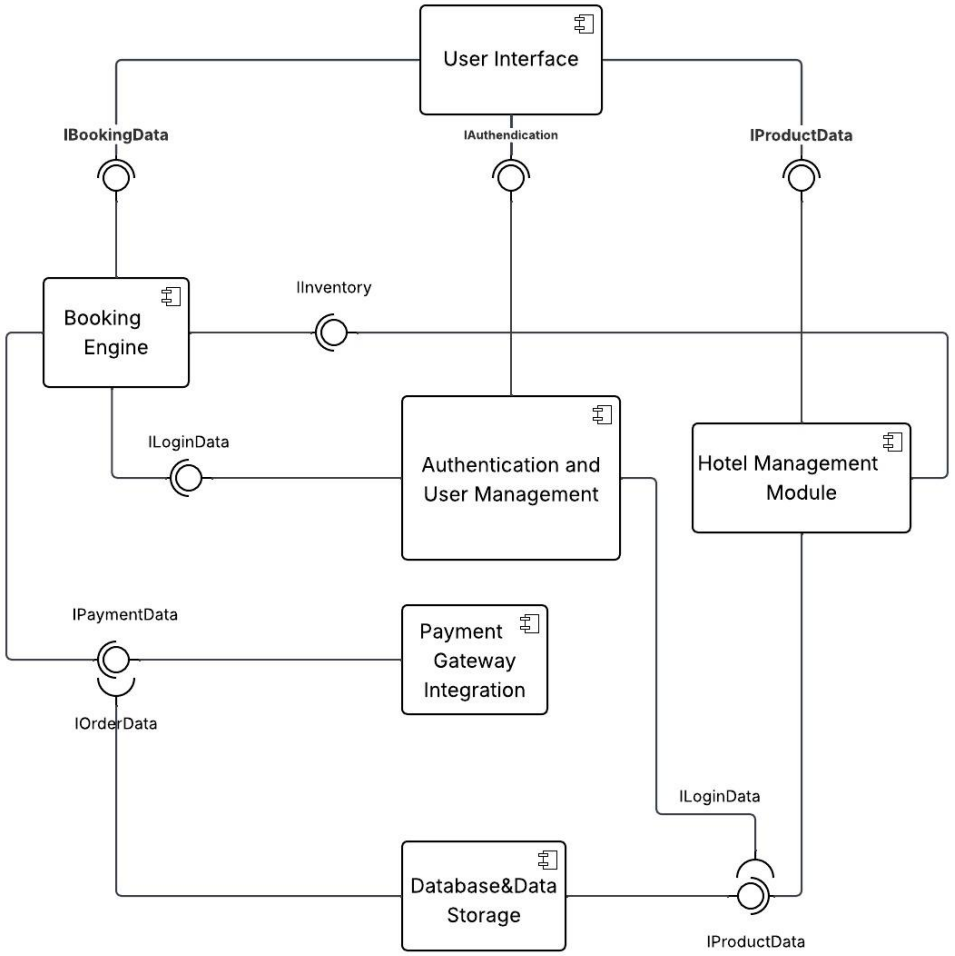
- End Users (customers)
- System Admin
- Hotel Staff

Problem It Solves: Eliminates manual booking and phone reservations by offering a digital alternative.

Improves customer experience with quick room search, secure payment, and booking history access.

Core Functional Requirements:

- **FR-1: The system shall provide a secure login for all users.**
- **FR-2: The system shall allow users to search for available hotels based on location and dates.**
- **FR-3: The system shall allow users to book rooms by entering guest and payment information.**
- **FR-4: The system shall display booking confirmation after successful payment.**
- **FR-5: The system shall allow users to cancel existing bookings.**
- **FR-6: The system shall validate user input forms before submission.**

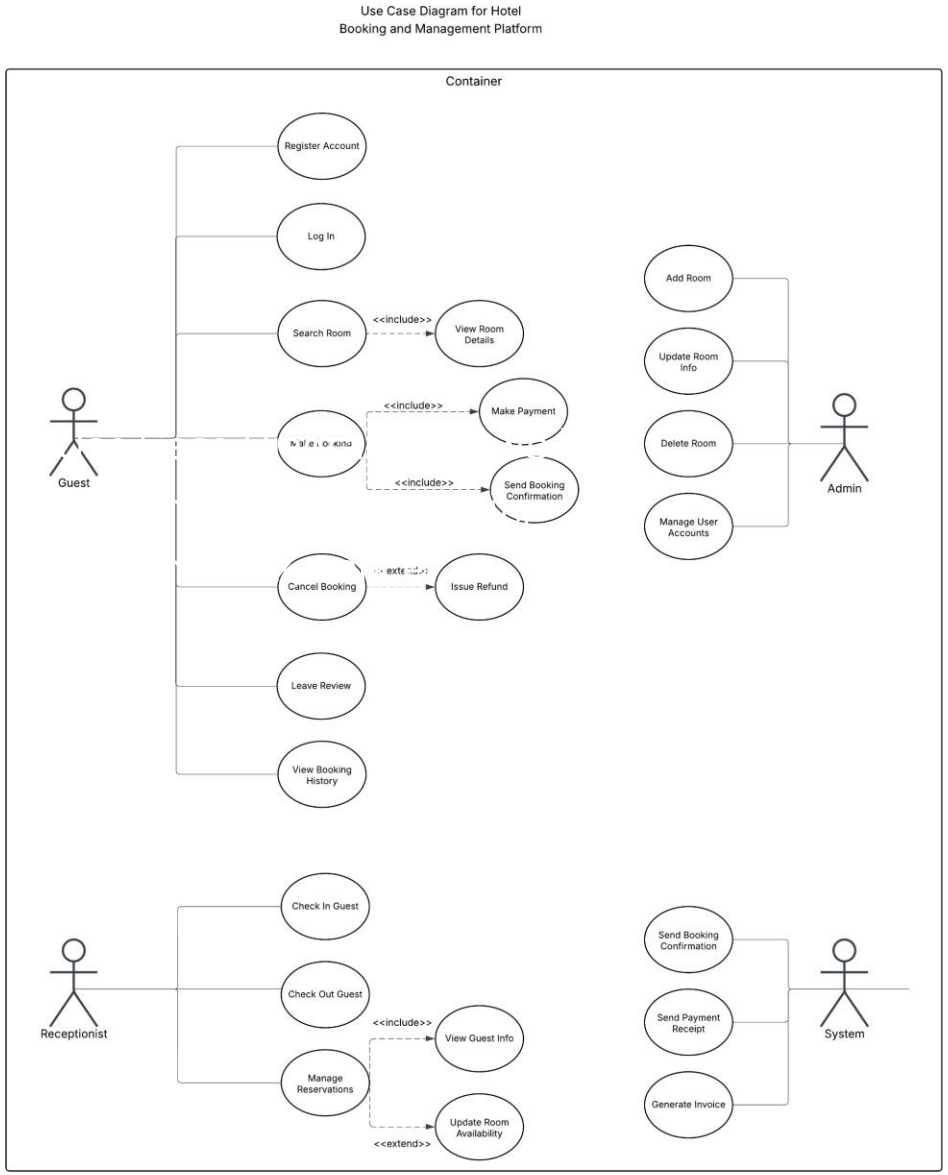


Final Content

Title: System Architecture

Component Diagram for Hotel Booking System

- **User Interface: Entry point for users to interact with the system**
- **Booking Engine: Core logic for room search, booking, and updates**
- **Authentication Module: Manages login, registration, and access control**
- **Hotel Management Module: Let's staff update availability and room info**
- **Payment Gateway: Simulates payment processing**
- **Database: Stores user data, booking records, and room inventory**



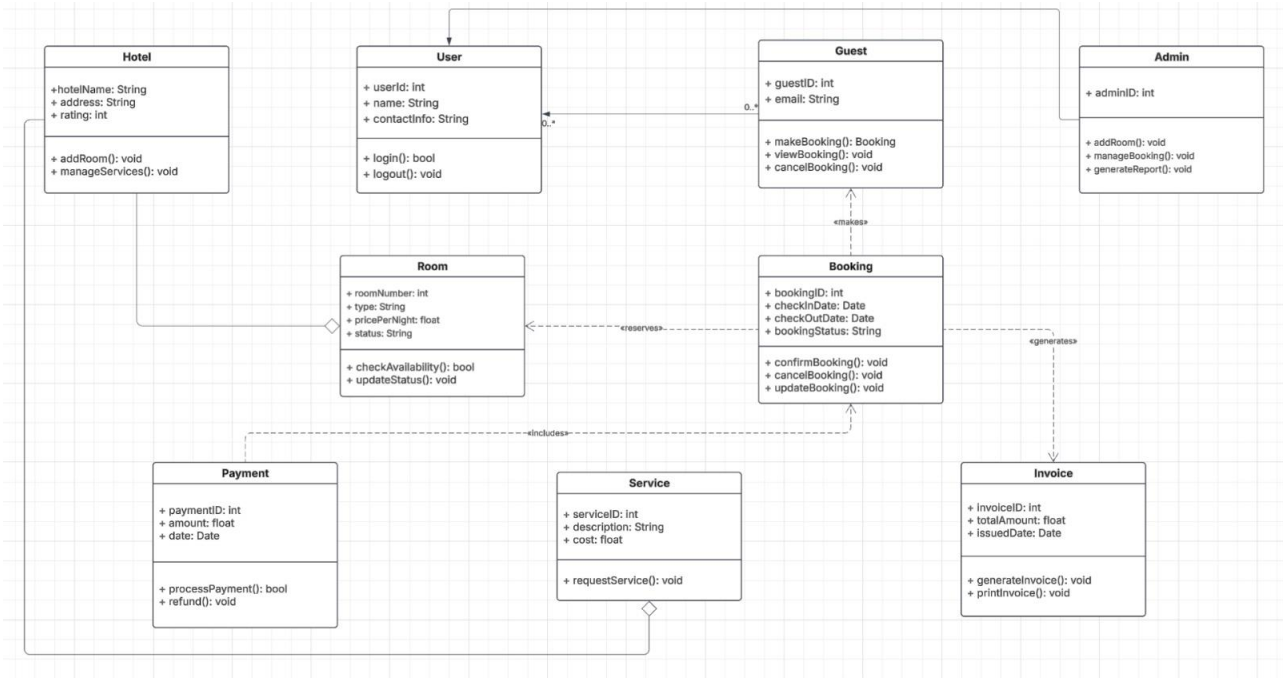
Title: UML Diagrams

Use Case Diagram

Use Case Diagram: Shows key user interactions — login, search, book, cancel

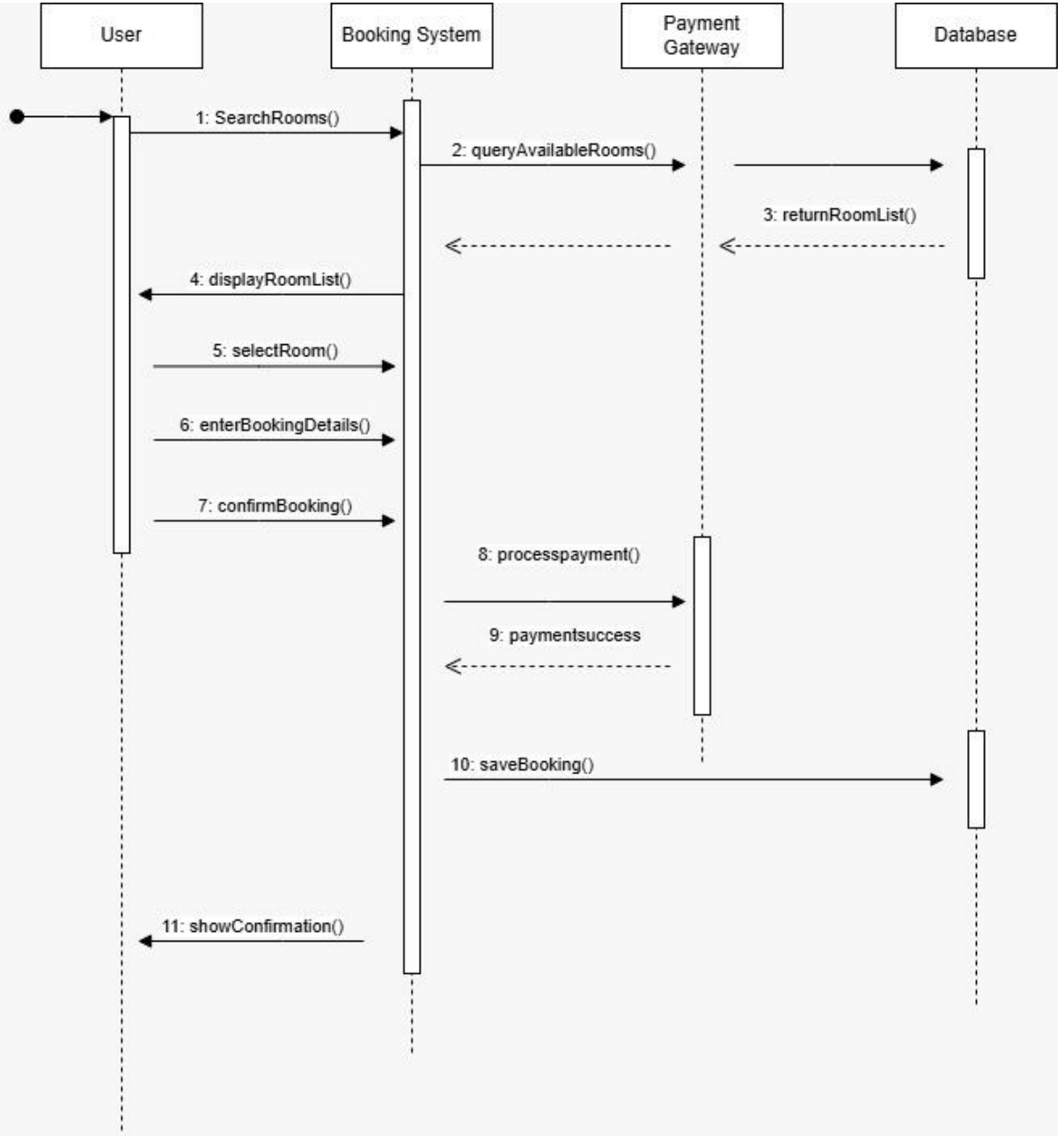
Class Diagram

Class Diagram: Models key entities and their relationships (User, Booking, Room, Payment)



Sequence Diagram For Make Booking

Sequence Diagram: Displays the booking flow — from user input to Database storage



Test Plan Summary

Test Scenario: Successful User Login

Requirement Tested: FR: The system shall provide a secure login for all users

Precondition:

- A valid user account exists in the system
- The user is using a supported browser (e.g., Chrome)
- The system is online and operational

Steps:

1. Open the login page
2. Enter a valid email and password
3. Click the “Login” button

Expected Outcome:

- The user is authenticated within 2 seconds
- The user is redirected to their dashboard
- A welcome message and upcoming bookings are displayed
- Session is securely initialized

Priority: High

User Guide Summary

- Feature Tutorial

A simple, written walkthrough of booking a hotel — from login → search → select room → payment → confirmation.

- FAQ Section
  - o What happens if I forget my password?
  - o How can I cancel a booking?
  - o Is my booking saved automatically?
  - o Can I use this on my phone?

- Troubleshooting
  - o Login fails? → Use password reset
  - o Booking not saved? → Recheck form inputs
  - o Page not loading? → Check internet or try again

Traceability & Consistency

Requirement	Where It Appears	Verified In
FR-1: User Login Login	Login Screen (Prototype)	Test Case 1, User Guide
FR-2: Hotel Search	Search Screen (Prototype)	Use Case Diagram, Test Plan
FR-3: Book Room	Booking + Payment Screens	Test Case 2, Sequence Diagram
FR-4: View Booking	Dashboard / My Bookings	Functional Requirements, Guide

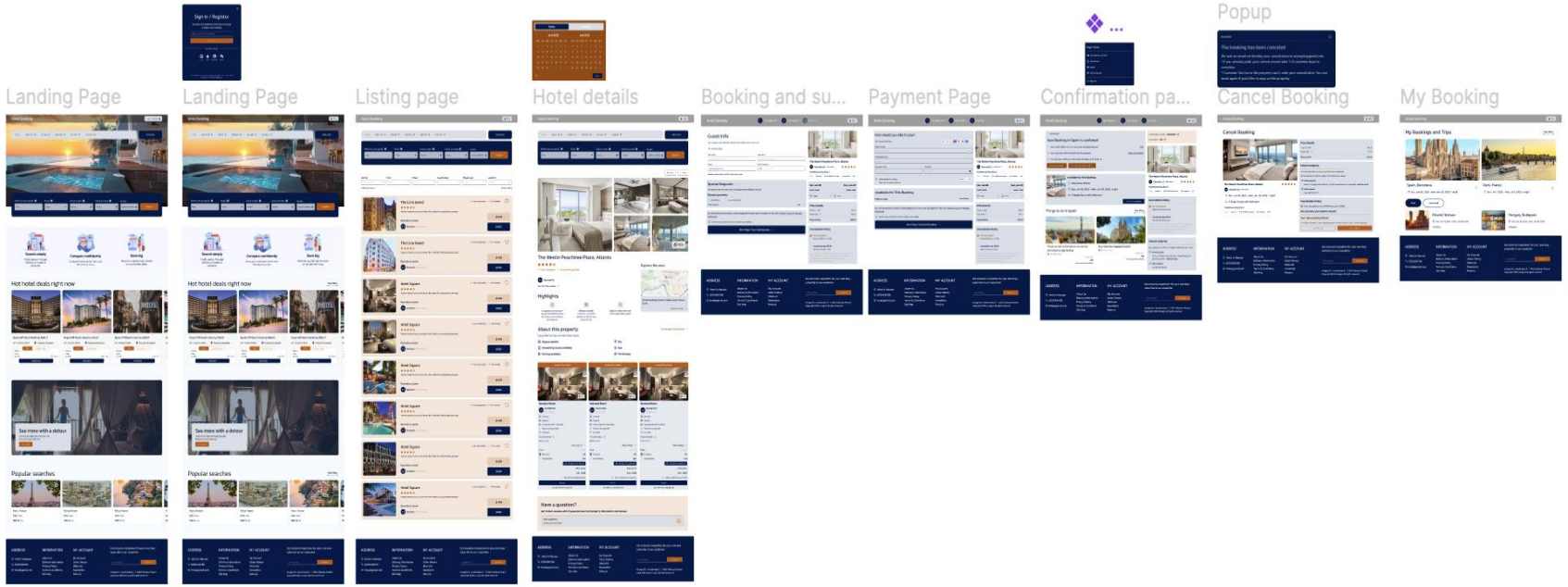
Value to Stakeholders

1. For Users (Customers):
• Fast and easy hotel booking from anywhere
• Can view, manage, and cancel bookings online
• Secure login and payment options improve trust

2. For Admins / Hotel Staff:
• Centralized system to manage room availability
• Fewer manual errors, more automation
• Reduces booking conflicts and customer service overhead

3. Based on Requirements + Use Cases
• Features delivered (search, book, confirm, cancel) all align with actual stakeholder
needs defined in SRS
• System designed for usability and quick task completion

Prototyping



Prototype created in Figma, fully clickable.
Covers main user flows: Login/Register, Hotel Search, Booking Process, Booking Management.
Aligned with Requirements, Use Case Diagram, and Sequence Diagram.
UX: Intuitive navigation and consistent design.

Figma Link

Conclusion

1. What has been delivered:

- Functional Requirements document
- UML and Architecture Diagrams
- Figma prototype with 8 interactive screens
- Test Plan and individual test cases
- User Guide covering booking flow

2. Current State:

- Prototype matches system design and use cases
- All documentation aligns with core functionality
- Stakeholder needs covered through core features (login, search, book, cancel)