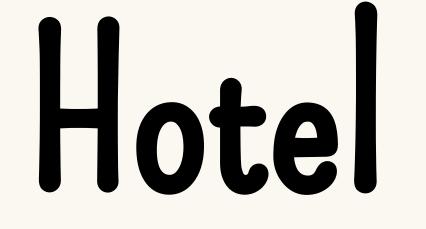
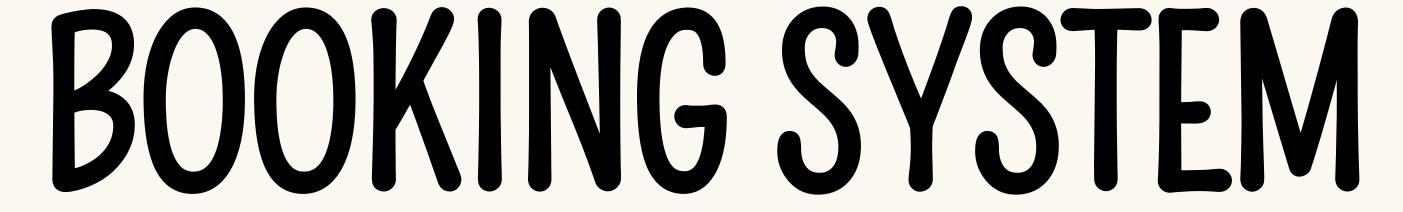
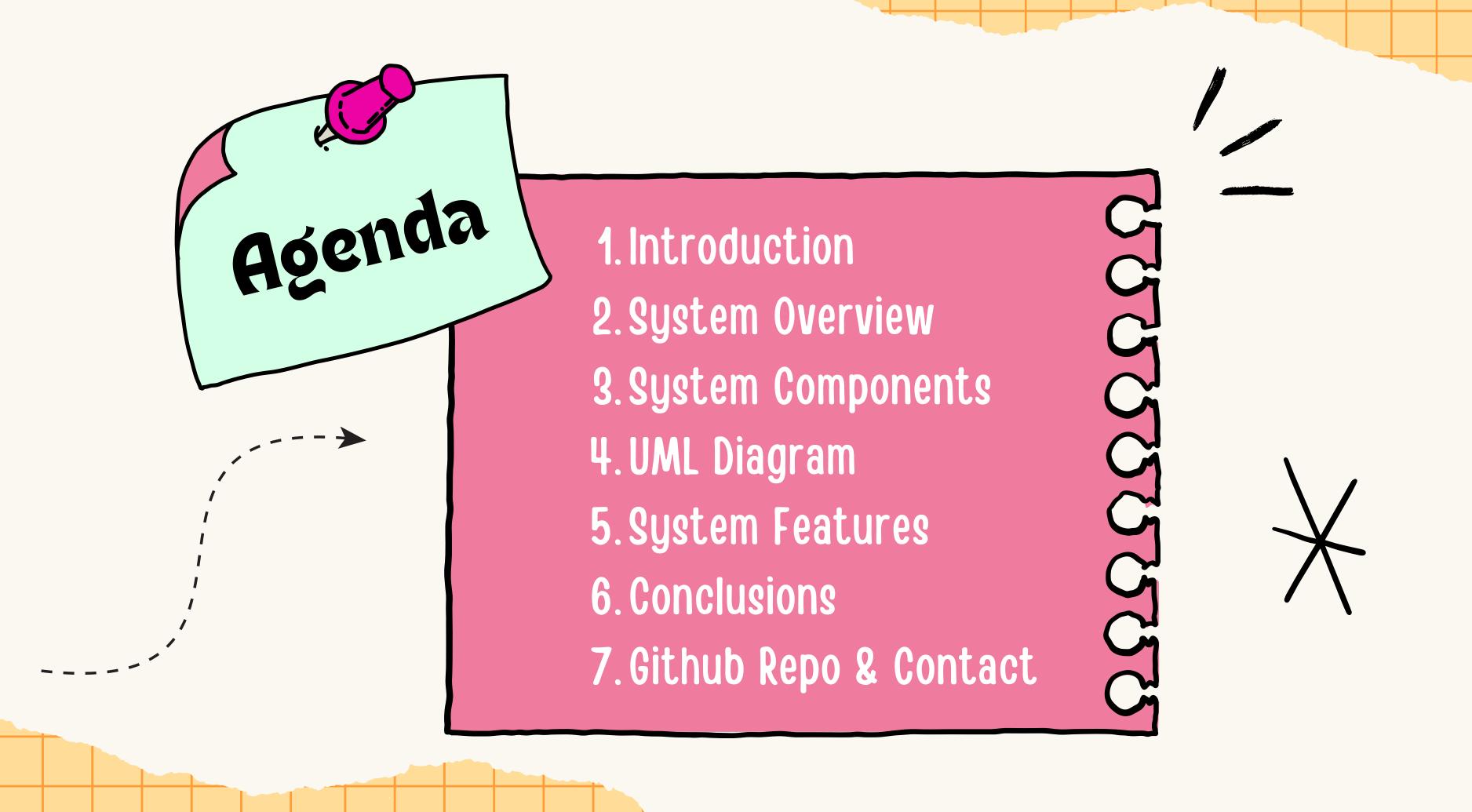
By Romisaa Fadel

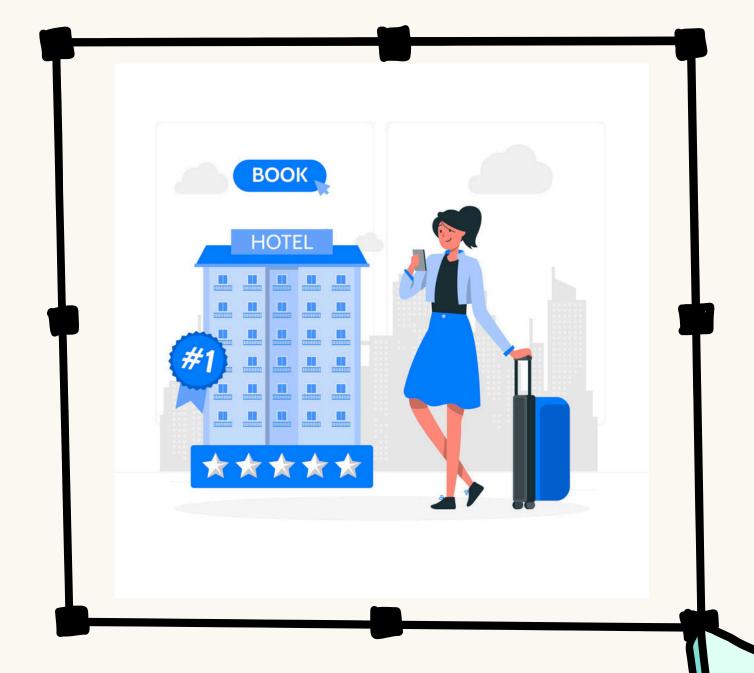






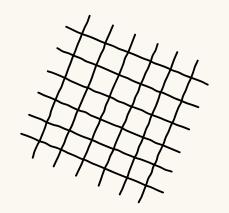






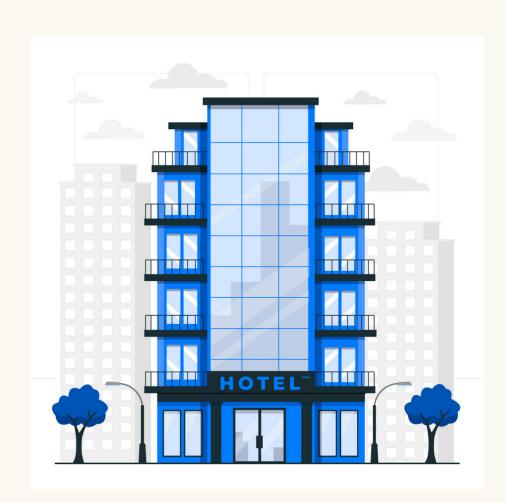
Introduction

- Hotel Booking System is a simple system for managing and booking hotel rooms.
- It allows users to view available rooms, make reservations, and cancel bookings easily.
- Built using Dart with Object-Oriented
 Programming (OOP) for efficiency and organization.



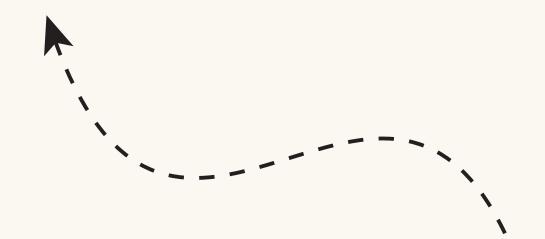


System Overview



The Hotel Booking System is a structured solution for managing hotel room reservations. It follows an object-oriented approach using Dart to ensure efficient booking management.

The system operates through a Command Line Interface (CLI).



Hotel

 Manages a collection of rooms and provides room availability.

Admin

• Provides management features for hotel administrators.

Room

 Represents an individual room with a price and availability status.

SYSTEM

COMPONENTS

User

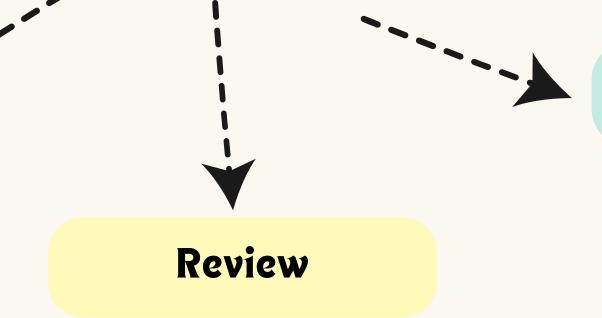
 Allows users to make and cancel room bookings

Payment

Manages payment processing.

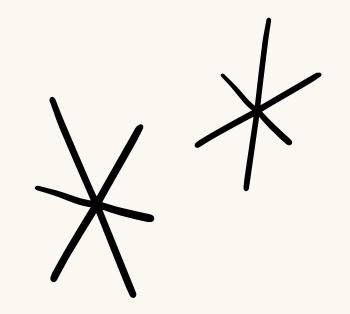
Booking

 Stores reservation details, linking a user to a booked room.



• Allows users to leave feedback.

UML m Digram User Room Hotel Booking + id: String + id: String + id: String + id : String + name: String + name: String + roomNumber: int +user:User +bookings:List<Booking> + rooms : List<Room> + Price : double +room : Room m + bookingDate : DateTime + isAvilable : bool + makeBooking(Room): void + status : String + generateId(): void + cancelBooking(int) : void + addRoom(Room) : void + generateId(): void + bookRoom(): void + removeRoom(Room) : void + cancelBooking(): void + cancelBooking(): void + showAvilableRooms(): void + bookingInfo(): void + getRoomByNumber(int) : Room + roomInfo(): void + generateId(): void + hotelInfo(): void Payment Review Admin + name : String + user :User + user : User + booking : Booking + hotel : Hotel + comment : String + totalPrice : double + rating : int addRoom(Room) : void + isPaid : bool + removeRoom(int) : void + showReview + showAllRooms(): void + makePayment(): void



System Features



The Hotel Booking System offers essential features to simplify room reservations and management:

- View Available Rooms Displays a list of rooms that can be booked.
- Book a Room Allows users to reserve a room if it is available.
- · Cancel a Booking Enables users to cancel their reservations.
- Track Room Availability Updates room status automatically after booking or cancellation.
- Admins can manage the hotel.
- Payments are processed after booking.
- Users can leave reviews and ratings.

CONCLUSIONS

Effective booking management is essential for any hotel, and this system provides a simple yet powerful solution. By combining efficiency, flexibility, and scalability, the Hotel Booking System lays the groundwork for a more advanced and automated reservation system in the future.

But this is just the beginning! With further enhancements, this project can evolve into a complete hotel management solution—integrating payment systems, user authentication, and even Al-powered booking recommendations.

GitHub & Contact



You can check out the full code on GitHub through the following link:





For any questions or feedback, feel free to reach out:





