Description:

The Hotel Reservation System in Java is a versatile and user-friendly application designed to streamline the hotel booking process, both for guests and hotel staff. With a rich set of features and a robust architecture, this application is tailored to meet the needs of the hospitality industry, ensuring a seamless and efficient experience for all users. It will optimize hotel operations, enrich the guest experience, and ensure efficient and secure hotel booking and management. Its flexible design allows it to be customized to meet the specific needs of any hotel, providing a reliable and effective tool for both guests and hotel staff.

Use-Cases

1. Guest can search for available rooms, view room details, and make reservations for their stay at the hotel.
2. Hotel staff can manage room inventory, including adding, updating, and removing rooms from the system. They can also set room prices and availability.
3. Secure user authentication and authorization for both guests and hotel staff members, ensuring that only authorized users can access sensitive information.
4. Automatically generate reservation confirmation emails to guests with booking details and check-in instructions.
5. Provide secure online payment options for guest to pay for their reservations, including credit card processing and other payment gateways.
6. Display a visual calendar that shows room availability, making it easy for guest to choose their desired dates.
7. Allow guest to cancel reservations and define cancellation policies for refunds or penalties.
8. Guests can create profiles with their personal information, preferences, and contact details to streamline future bookings.
9. Offer a dashboard for hotel administrators to manage reservations, view booking reports, and handle customer inquiries.
10. If rooms are fully booked, guest can join a waitlist and receive notifications when a room becomes available.

**Use Case Diagram**

A diagram of a customer service

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**Initial Sequence Diagram**

A graph with numbers and circles

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**Class Diagram**

**A screenshot of a computer

Description automatically generated**