**SOFTWARE REQUIREMENTS SPECIFICATION DOCUMENT**

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**1.Objective and Scope**

The main objective of the Hotel Booking System is to streamline the process of booking hotel accommodations for guests, enhancing convenience and efficiency for both customers and hotel staff. The scope of the project includes the following features:

* User registration and login
* Room search and availability
* Room selection and booking
* Reservation management
* Payment processing
* User feedback and reviews

**2. Project End Users**

The end users of the Hotel Booking System include:

Customers: Individuals seeking hotel accommodations for personal or business travel.

Hotel Staff: Employees responsible for managing room reservations, check-ins, and customer interactions.

**3.Features**

**3.1 User Registration and Login**

Users can create accounts by providing necessary personal information.

Registered users can log in securely using their credentials.

* User Name: In the user name only Alphabets, Numbers, Dot (.) symbol and underscore (\_) symbol.
* Password : Atleast 8 characters and contains special character, letters and digits.

**3.2 Room Search and Availability**

Users can search for available rooms based on criteria such as location, dates, and room type.

The system displays a list of available rooms with relevant details such as price, amenities, and availability status.

**3.3 Room Selection and Booking**

Users can select desired rooms from the available options.

The system provides a booking interface where users can specify booking details including check-in/out dates, number of guests, and special requests.

**3.4 Reservation Management**

Hotel staff can manage room reservations, including creating, modifying, and canceling bookings.

The system updates room availability in real-time to prevent overbooking.

**3.5 Payment Processing**

Users can securely process payments for room reservations using various payment methods such as credit/debit cards or online payment gateways.

The system generates invoices and receipts for completed bookings.

**3.6 User Feedback and Reviews**

Users can provide feedback and reviews based on their hotel stay experience.

The system aggregates and displays user ratings and reviews to help future guests make informed decisions.

**4. Non-functional Requirements**

Usability: The system interface should be intuitive and easy to navigate for users of all levels.

Reliability: The system should be available 24/7 with minimal downtime.

Security: The system should implement robust security measures to protect user data and payment transactions.

Performance: The system should handle concurrent user requests efficiently and respond within acceptable timeframes.

**5. Interfaces**

The Hotel Booking System may interface with external systems such as payment gateways for processing transactions and hotel management systems for room availability updates.

**6. Data Requirements**

The system will store data related to user accounts, room reservations, payment transactions, and user feedback securely in a relational database management system (RDBMS).