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Software Requirement Specification

1. Hotel Management System

1.1 Purpose of this document

The purpose of this document is to outline the requirements for the Hotel management system (HMS). It serves as a guide for developers, stakeholders, and users to ensure a common understanding of the system's capabilities, features and constraints.

1.2 Scope of this document

This document provides a comprehensive overview of the HMS, detailing the functionalities it offers to streamline hotel operations, improve customer service and enhance overall efficiency. The estimated overall cost is \$100,000 with a projected timeline of 6 months for completion.

1.3 Overview

The Hotel Management System is designed to manage hotel operations such as reservations, check-in / check-out, billing and reporting. It aims to provide a user-friendly interface for both hotel staff and guests, improving operational efficiency and customer satisfaction.

2. General Description

The HMS will allow hotel staff to manage guest bookings, process payments, and maintain room availability. User characteristics include front desk staff, hotel managers and maintenance personnel.

The system's features will include:

- Guest reservation management
- Room assignment and tracking
- Billing and invoicing
- Reporting and analytics

This system is important as it streamlines operations, reduces human error, and enhance customer experience.

3. Functional Requirements.

1. User Registration: User can create & management account.
2. Room Booking: User can search for available rooms and make reservations.
3. Check-in/Check-out: Staff can check guests in & out of the system.
4. Billing: The system calculates charges based on stay duration & services.
5. Reporting: Generating occupancy & revenue reports.

4. Interface Requirements.

The HMS will interface with:

User Interface: Web-based frontend for staff & guests.

Database: SQL database for data storage & retrieval.

Payment Gateway: API integrating for processing payments.

5. Performance Requirements.

The HMS system should:

- Handle upto 100 simultaneous users.
- Complete booking transactions within 3 seconds.
- Ensure data retrieval from the database within 2 seconds.

6. Design Constraints

- Must be developed using Java and Spring framework.
- Compatible with MySQL database.
- Must operate on Windows & Linux environments.

7. Design Constraints

- Must be developed using Java

7. Non Functional Attributes

- Security : Implement SSL and data encryption
- Reliability : 99.9% uptime guarantee
- Scalability : Must support expansion for multiple locations.

8. Preliminary Schedule & Budget

- Initial Budget : \$100,000
- Project Duration : 6 months
- Requirement Gathering : 1 month
- Design : 1 month
- Development : 3 months
- Testing : 1 month.