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saathi

SRS Document



① Hotel Management System

1. Introduction

- 1.1 Purpose of this document : The purpose of this document is to outline the requirements and specifications for the development of a hotel management system. It will provide a clear understanding of the project objectives, scopes, and deliverables.
- 1.2 Scope of this document : This document defines the overall working and main objectives of the Hotel management system. It includes a description of the development cost and time required for the project.
- 1.3 Overview : It is a system that will cater to the needs of hotel staff and management, providing features such as room booking, guest profiles, inventory management and financial reporting. It will be accessible to users with varying levels of technical expertise.

2. General description

The Hotel Management system will cater to the needs of hotel staff and management, providing features such as room booking, guest profiles, inventory management, and financial reporting. It will be accessible to users with various levels of expertise.

3 Functional requirements

3.1 Reservation Management:

- Allow users to make room reservations online or through the front desk.
- Generate reservation confirmations and send notifications to guests.

3.2 Room Management:

- Assign rooms to guest based on availability and preferences.
- Track room status (clean, occupied, vacant) in real time.

3.3 Guest Management:

- Maintain guest profiles with personal info, preferences and booking history.
- Facilitate guest check-in and check-out processes.

3.4 Billing and Invoicing:

- Generate accurate bills for room charges, additional services & taxes.
- Accept various payment methods and generate invoices for corporate clients.

4 Interface requirements

4.1 User Interface:

- Intuitive & user-friendly interface for hotel staff.
- Accessible via web browsers, mobile devices & desktop.

4.2 Integration Interfaces:

- Integration with payment gateways for secure gateways.
- Integration with third party booking platforms for seamless reservation management.

5 Performance Requirements

- 5.1 Response Time: The system should respond to user actions within 2 seconds.
- 5.2 Scalability: Handle a minimum of 1000 concurrent users during peak hours.
- 5.3 Data Integrity: Ensure data consistency and accuracy across all modules.

6 Design Constraints

- 6.1 Hardware Limitations: The system should be compatible with standard hotel hardware (computers, printers, POS terminals).
- 6.2 Software Limitations: Utilize a relational database management system (e.g., MySQL) for data storage. Use programming languages & frameworks conducive to UML modeling.

7 Non functional Attributes

- 7.1 Security:
 - Implement robust authentication & authorization mechanisms to protect sensitive data.
- 7.2 Reliability: Ensure high availability and fault tolerance to minimize system downtime.
- 7.3 Scalability: Design the system to accommodate future growth and expansion.
- 7.4 Portability: Support multiple platforms and devices for user accessibility.
- 7.5 Usability: The system shall have a user-friendly interface with clear navigation.

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7.6 Reusability: The system shall use modular code design to facilitate future enhancements & maintenance.

7.7 Compatibility: The system shall be compatible with common web browsers.

7.8 Data Integrity: The system shall be ensure accurate and consistent data storage & retrieval.

8 Preliminary Schedule & Budget
The development of HMS is estimated to take 6 months with a budget of \$100,000. This includes project planning, development, testing & deployment phases.

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