

Hotel Management System

Problem Statement

The problem that the hotel management system aims to solve is the efficient management of hotel operations, including reservation, guest check-in / check-out, room allocation, billing, amenities management and staff scheduling.

Software Requirements Specification

1. Introduction:

1.1 Purpose of this document:

To provide a comprehensive understanding of requirements and functionalities of the HMS.

1.2 Scope of this document:

Describe the intended users, features and benefits of the HMS along with development tool and time.

1.3 Overview:

Gives a brief summary of the HMS outlining its primary functions such as room booking, check-in, check-out and billing.

2. General Description:

To automate and streamline hotel operations, improving efficiency and guest experience. Allows guests to book rooms online or through the front desk. Facilitates the check-in/out process for guests.

3. Functional Requirements:

- Room booking.

an user a user can search for available rooms based on date, room type & occupancy. user can select room and proceed with the booking process.

Check in / out

front desk staff can assign rooms, check in and issue room keys. Guest can check out settle bills and receive invoices.

Inventory Management

System automatically update room availability on reservations and house keeping.

4. Interface Requirements

Intuitive interfaces for staff and guests accessible via web browsers or mobile apps. Integration with payment gateways for secure online payment. Email notification for booking confirmation, reminders.

5. Performance Requirements

System should respond promptly to user requests with minimal latency. System should be available 24/7 with scheduled maintenance without communication.

2. Design Constraints

Compatibility with existing hardware and software infrastructure
 Support for multiple platforms.
 Compliance with data protection

3. Non functional attributes ..

- Encryption of sensitive data
- Role based access control to restrict unauthorized access
- System should be robust and resilient with failover mechanisms to prevent downtime.
- Intuitive user interfaces with clear navigation and tooling.

4. Preliminary Schedule and budget.

Estimated timeline for development, testing and deployment phases.

Budget: cost estimate for development resources and infrastructure

1) Hotel Management

