Hotel Management System

Problem statement

Provide selection criteria from user and display the hotel list for user baring on the criteria user can book the room if there is availability of the room in that particular hotel where no of software with 1 website for the hotels for booking the room. So creating a website and a database would be helpful for user to book room outline

Introduction

1. **Purpose** of this document: To provide a comprehensive understanding of the requirement and functionalities of the hotel management system.

Scope of document: Describes the intended user, features and benefit of the HMS, along with development cost and time estimates

Overview: Give a breif summary of the HMS, outlining its primary functions such as room booking check in/out and billing.

General Description:

Objective: To automate and streamline hotel operations, improving efficiency and guest experience.

User characterstics: front desk staff, housekeeping, guest

Features:

- Room booking : Allow guest to book rooms online or through the front desk.
- Checkin/out : Facilities the check in and check out process for guests.

Functional Requirements:

- User can search for available rooms based on criteria such as date, room type and occupancy.

- User can select rooms and proceed with process booking process, providing necessary details.

- Front desk staff can check in guest, assign rooms and issue keys.

4. Interface requirements

- Intuitive interface for staff and guests, accessible via web browser or mobile apps.
- Integration with payment gateways for secure online payment communication

5. Performance Requirements

- System should respond promptly to user request with minimal latency
- System should be available 24/7 with scheduled maintenance windows communicated in advance
- Ability to handle peak load during high demand periods.

6. Design constraints

- Compatibility with existing features, hardware and software infrastructure
- Support for multiple platform

7. Non-functional Attributes

- Encryption of sensitive data.
- Role based access control to restrict unauthorized access
- Compliance with data protection regulation.

Preliminary Schedule

- Estimated timeline for development, testing and development phrases.

- Cost estimates for development resource, licenses and infrastructure.