

Hotel management system

1. Introduction :

1.1 Purpose of this document : This document outlines the design and development of a Hotel management system, which aims to streamline hotel operations like booking, guest management and billing.

1.2 Scope of this document :

The document covers the system's features, development timeline, and cost. It will enhance efficiency in hotel operations and improve guest experiences. The project is expected to be completed in 6 months, within a reasonable budget.

1.3 Overview :

This system automates key hotel functions, simplifying tasks such as room reservations, check-ins, and billing, providing a more seamless experience for both staff and guests.

2. Generic description :

The system allows hotel staff to manage reservations, guest information, and billing. Users include receptionists, managers, and housekeeping staff. Key benefits include improved efficiency and better guest satisfaction through faster, more accurate service.

3. Functional Requirements :

Key functions :

- Room booking and availability management.
- Check-in and check-out processing.
- Automated billing & payment tracking.
- Housekeeping schedule management.

4. Interface Requirements :

The system will feature an admin dashboard for staff and an online booking interface for guests. Real-time data updates will ensure smooth operations across all platforms.

5. Performance Requirements :

The system will handle multiple users simultaneously, process room bookings within 2-3 seconds, and maintain 99.5% uptime with secure data handling.

6. Design Constraints :

constraints include compatibility with existing hotel infrastructure, a 6-month timeline, and budget limitations restricting the use of high-end software.

7. Non-functional Attributes :

Key non-fn features include security, portability, reliability and scalability for future expansion.

8. Preliminary Schedule & Budget:

The project will take around 6 months to complete, with an estimated budget of INR 5,00,000 covering development, testing and deployment.