1] HOTEL MANAGEMENT SYSTEM

1] Introduction:

1.1] Purpose of this Document:

- Objective is to provide a base for the foundation of the project
- To provide a comprehensive understanding of the requirements & functionalities of the Hotel Managent.

1.2] Scope of this Document

Describes the intended users, features, and benifits of the HMS, along with development cost & time estimates

1.3] Over view

Gives a breif summary of the HMS, outlining its primary functions such as room booking, checkin/out and billing

2] General Description

- objective: to automate and streamline hotel operations, improving efficiency & guest experience
- user characters: front desk staff, housekeeping, guests.

- Room booking: Allows guests to book rooms online or through the front desk
- check in/out: Facilitates the check in and check out process for guests.
- Inventory management.
- Billing
- Importance: enhances guest satisfaction
- User Community: Includes hotel staff and guests

3] Functional Requirements:-

- Room Booking
  - users can search available rooms based on criteria such as date, room type, and occupancy
  - users can select rooms and Proceed with the booking process.

- Front desk staff can check in guests
- Guests can check out
- Inventory management.
- Integrated with payments
- Generates invoices for room charges.

4] Interface Requirements

→ User Interface:
 - Intutive Interfaces for staff and guests, accessible via web browsers or mobile apps.

→ Payment Integration:
 - Integration with payment gateways

→ Communication:
 - Email notifications for booking confirmations, reminders, & feedback requests

5] Performance Requirements

→ Response Time:
 - System should respond promptly to user requests with minimal latency

→ Availability
 - System should be available 24×7

⇒ Scalability
- Ability to handle peak loads during high demand periods

6] Design Constraints

⇒ Hardware/Software Limitations:

- compatibility with existing hardware and software Infrastructure
- support for multiple platforms

⇒ Regulatory Compliance:
- compliance with data protection regulations and Industry Standards

7] Non-functional Attributes:

- Encryption of sensetive data
- Role based access control

⇒ Reliability
⇒ Usability
⇒ Scalability

8] Preliminary Schedule & Budget
- Schedule: Estimated timeline for development
- Budget: cost estimates for development resources