

~~30/09~~ 23/09/2024:

Q. SRS document for Hotel Management System:-

→ ① Introduction:

1.1. Purpose:

This document outlines the requirements for a hotel management system (HMS) which serves the purpose of guiding the developers.

1.2 Scope of this document:

This document covers all and overall functionality of a HMS, and it emphasizes its goals and the values it offers users such as streamlined operations. It also includes estimates for development costs and timelines.

1.3 Overview:

The HMS is designed to automate and streamline hotel operations, including reservations, check-ins, billing and customer relationship management, with the aim of improving efficiency and customer satisfaction.

② General Description:-

The HMS will assist hotel staff and guests, featuring key user roles such as front desk personnel, managers and guests. Key functionalities include room booking, billing, reporting, and inventory management.

③ Functional Requirements:

- User Registration/Login: Secure account creation and login for users.
- Room-Reservation: Search and book rooms based on availability.
- check-in / check-out: Automated guest check-in and check-out processes.
- Billing system: Invoice generation is based on utilized services.

- Reportings: Generate reports on occupancy, revenue, and customer feedback.

④ Interface Requirements:

Remark:
add feature
"procedures"
like reservation

- User Interface: A web-based interface accessible to guests and staff.
- API Integration: Interfaces for external payment system, location services and other third party services.

- Data Exchange: To interchange data between the system modules.

Room & table Reservation: Provides a user friendly web & table reservation interface that shows availability & pricing of rooms & time slots for table booking.

⑤ Performance Requirements:

- Response Time: System responses should occur within 1 second for most of operations.
- Data Handling: efficient management of upto 100000 records.

⑥ Design Constraints:

- Technology: Used specified frameworks (React, Node.js)
- Database: Use relational database (MySQL).

⑦ Non-Functional Attributes:

Remark:
"Efficiency"

- Security: Protect user data with encryption.
- Scalability: Support for future system expansion.
- Reliability: Guarantee of 99.99% uptime.
- Usability: Intuitive user interface for ease of use.

Efficiency: ensure optimized resource utilization, reducing latency and minimizing memory usage while processing large datasets or workload users.

⑧ Preliminary Schedule & Budget:

- estimated duration: Six months for development & testing.
- Projected cost: ₹10000000 which covers development, testing and deployment.

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