

Lab - 1

List the requirements of (SRS)

i) Hotel Management System:

~~Functional Requirements~~

Problem Statement: A system that manages day to day operations of a hotel, including room reservations, check in / check out, billing, housekeeping and customer feedback.

Scope: This system covers front desk operations, housekeeping, room service management, and reporting for hotel management. It also provides client features such as online reservations and room servicing requests.

Functional Requirements

→ User Management: Register new guests, staff and administrators

→ Room Reservation: Guests can search for rooms, their type and amenities and book them

→ Check in / Check out system: Creating a system to keep track of customers who checked in and out of the hotel.

→ Payment service: Calculate the bill amount according to the room reserved, services taken and no. of days of stay.

PAGE: _____
→ Housekeeping: Keep track of housekeeping staff and their attendance and no. of hours worked and details as such.

→ Customer Feedback: Guest Guests can submit their feedback on room service, amenities, etc. It must also gather all the data and show accurate and appropriate analytics to the hotel staff.

Non-Functional Requirements:

1. Product Requirements:

→ Performance:

System should support at least ~~100~~ 100 concurrent users with less than 2 seconds of response time.

→ Usability:

UI should be ~~responsive, efficient~~ responsive and easy to use with appealing layout and icons.

→ Scalability:

Should handle at least 100 customers without performance deterioration.

2. Organizational Requirements:

→ Compliance: System should adhere to local data protection regulations.

→ Training: Technical training must be provided to the staff.

→ Support: Technical support should be given to users

3. External

→ Integration: must integrate with existing system for payment and database

→ Backup: Should also provide data backup in case of any failure of servers or other systems maintained by the hotel or service providers.

Domain Requirements:

→ Comply with industrial standards: Including room classification and ratings (star rating)

→ User specifics and industrial concept:
• Check-in • check out and room type

→ Meet safety and security standards:
• Fire safety and emergency response plans

Design Constraints: System must be compatible with present servers and ~~hardware~~ hardware

* Implementation of secure ^{hash} algorithms for better secured storage of confidential info

Preliminary Budget:

Estimated lines of code = 17,200

Each line of code costs = ₹ 15

Total budget = 17200×15

= ₹ 2,58,000