Software Requirement Specification

Q) Hotel Management System

1. Introduction

1.1 Purpose of this document :

This SRS Defines the functional & non functional requirements for a Hotel Management System. It serves as a blueprint for the development team, outlining the expected capabilities & behaviour of the system.

1.2 Scope of this Document :

- Guest Reservations
- Room Management
- Inventory Management
- Staff Management
- Billing & Payment

1.3 Overview :

The Hotel Mangement System will be a web based application accessible to hotel staff. It will provide a user friendly interface for managing day-to-day operations efficiently and accurately.

2- General Description

2.1 Users Characterstics :

- Hotel Staff
- Guest

2.2 User Interface

- Easy to use and Intuitive for all users.
- Responsive design for different devices.
- Concise Navigation

2.3 Features :

- Online Reservation & Cancellation.
- Guest Details Management
- Room Management
- Check-in / Check-out
- Inventory Mangement
- Staff scheduling
- Billing and Payment

2.4 Benefits :

- Increased efficiency
- Improved Guest satisfaction
- Reduces Manual tasks
- Saves time

3 Functional Requirements

- Reservation Management
    - Allow user to create, modify & cancel reservations
    - Validate Guests info & availability.

- Room Mangement
    - Main Database of different rooms
    - Track and update room status
    - Room Allotment

- Inventory Management
  - Track availability of items like linens toiletries &
  - Set reorder points & replenishment

- Staff Management
  - Create staff profiles with roles
  - Schedule shifts & tasks
  - Attendance

- Billing & payments
  - Calculate guest bills
  - process payment via all +methods
  - Generative invoices invoices

4. Interface Requirements :

  ○ User Interface:
    - Adhere to industry std. guidelines.
    - (provide clear messages)

  ○ Safety Requirement System Interface:
    - Integrate payment gateway.

5. Performance Requirements

  ○ Response time should be reduced.
  ° It should be scalable.
  • It should be secure.

6. Design Constraints

  ○ ~~standalone system~~
  → ○ It should be a stand alone system.
  • Preffered programming language Java and an Access or Oracle database.

- Standards Compliance.

7. Non Functional Attributes.

- Highly reliable & easy to use for everyone.
- Easy to maintain and must be secure.
- Portability should be kept in mind.

8. Preliminary Schedule And Budget

Schedule : - Requirement gathering and Analysis : (3-4 weeks)
- System Design : (2-3 weeks)
- Development : (10-12 weeks)
- Testing and validation : (4-6 weeks)
- Deployment & Training : (2-3 weeks)

- Estimated weeks : (21-25 weeks).

Budget :
- Requirement Documentation : (₹ 100000)
- Design & tools : (₹ 200000)
- Development : (₹ 500000)
- Testing : (₹ 200000)

Total estimated Budget : (₹ 1000000).