Software Requirement Specification (SRS)

1> Hotel Management System

1. Introduction

1.1 Purpose of this Document

This document outlines the software requirements for the Hotel Management System. It serves to prov stakeholders with a clear understanding of the functionalities, design constraints, and overall goals of the software. The purpose is to ensure all parties are aligned on expectations and requirements, facilitating a smoother developme process.

1.2. Scope of this Document

The SRS details the objectives, features and user requirements for system. It will also addres estimated development costs & timelines. The Hotel Management systems aims to streamline operations with the hospitality industry, while the focusing efficient handling.

1.3. Overview :-

The Hotel Management System will provide a comprehensive solution for managing reservation check-in, billing and customer services.

2. General Description

- User Objectives: Simplify reservation management, enhance customer experience, and streamline check-in/check-out processes.

- User Characteristics: Front desk staff, hotel manage customer.

- Features: Room booking, payment processing, customer management, reporting tools.

- Benefits: Increased operational efficiency, improved customer satisfaction, and reduced manual errors.

- Importance :- Essential for modern hotels to remain competitive and efficient in service delivery.

Functional Requirement :-

Room Booking :- Allow users to search for available rooms and book online.

Check-in/Check-out :- Facilitate easy check-in and check-out processes

Payment Processing :- Handle payments via various methods (credit card, cash, etc).

Customer Management :- Store and manage customer profiles and preferences.

Reporting :- Generate reports on occupancy, revenue and customer satisfaction.

Interface Requirements

User Interface : Web-based dashboards for staff and mobile interface for customers.

API Interface : Integration with third-party services (Payment gateways, etc).

Data Streams: Real time updates on room availability and bookings.

Performance Requirements

Response Time : The system should respond to user request within 2 seconds.

Availability: 99.9% uptime to ensure the reliability.

Scalability: less than 0.01% of transactions should results in errors.

Design Constraints

i) Must be compatible with existing hotel management system.

ii) Should comply with data protection regulations (eg. GDPR).

7. Non-functional Requirements/Attributes

- security : user data must be protected against unauthor-
  access.

- usability : Interface must be intuitive for non-
  technical staff.

- scalability :- System should support growth in
  user Base and features

8. Preliminary Schedule & Budget

- Estimated development time : 6 months
- Estimated Budget : $ 150,000.

Lab = 03

class Diagrams

1. Hotel Management System

Hotel managment System
- HotelName : string
- No. of employee : string
- Hotel address : string
- open()

Works for
- Salary
- Job Tittle

taber
- order id
- order name

Employees
- EId
- E_name
- E_Salary
- E_details()

1...|* | has | 1 | has 1 | 1 has | 1 | takes | 0..*

Customer
- C_name
- Bill id
- order_id
- payment_id
- C_detail()
- Orderitems()
- paymnt Status()

Menu
- itemid
- itemName
- Amount
- item()

Order
- Order_id
- item_id
- item_name
- quantity
- C_id
- serveer_id
- Orderitems()

Server
- S_id
- Order id

chef
- ch_id
- orderid

serves

Table
- Table Number
- Occupied Status
- Server id
- C_id
- table_detail()
- aveil_status()

payment
- payment_id
- Bill_id
- itspaid()

Mode of Paymnt
- Cash
- Card

Bill
- Bill_id
- order_id
- Total Bill
- Cal_Bill()

Pays
- order id
- Bill id
- Ord_Amt

Pays

1...*

Serves

1...*

(chooses) 1...*
1