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Software Requirement Specification (SRS)

Hotel Management System

Problem Statement:

The current manual system for managing hotel operations is time-consuming and prone to errors. There is a need for a more efficient automated system to streamline these processes and improve overall hotel management.

1. Introduction

1.1 Purpose of This Document

The purpose of this document is to provide a detailed description of the requirements for the hotel management system. It outlines the goal and objective of the system.

1.2 Scope of this document

This document defines the requirements for the development of a Hotel management system. It includes a description of the system's functionality, user characteristics, features and benefits.

1.3 Overview

The hotel management software is designed to streamline various operations within a hotel such as reservations, check-ins, check-outs, billing and

Inventory management. It aims to enhance efficiency, improve guest satisfaction and inventory management.

2. General Description

The hotel management software will cater to the needs of hotel staff managers and guests. It will feature user-friendly interfaces, real-time data updates and robust security measures. Key features include:

- Reservation management
- Check-in / Check-out management
- Billing and Invoicing
- Room Inventory management
- Guest Profile management
- Reporting and analytics

3) Functional Requirements Reservation management

- Ability to create, modify and cancel reservations
- Real-time availability updates
- Guest preferences and special requests management
- Check-in / check-out management
- Efficient check-in and check-out process
- Room assignment and key management
- Billing and Invoicing
- Generation of accurate bills and invoices
- Integration with payment gateways for online payments

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- Room inventory management
 - Tracking of room availability and occupancy
 - Room status updates
 - Guest profile management
 - Storage and retrieval of guest information
 - History of past stays and preferences
 - Reporting and Analysis
 - Generation of various reports
 - Data analysis for decision making

iv) Interface Requirements

- The hotel management Software will interact with users through
- Graphical User Interface (GUI) for hotel staff
 - Web-based interface for online reservations
 - Mobile application for guests

v) Performance Requirements

- Response time for user actions ≤ 2 seconds
- System uptime 99.9%
- Concurrent user support: Maximum 50 users
- Data processing speed: Real time updates for book availability and number transactions

vi) Design constraints

- Integration with existing library systems and databases for data migration
- Compatibility with different operating systems and web browsers
- Compliance with library standards and protocols for cataloging and circulation

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7) Non-Functional Attributes

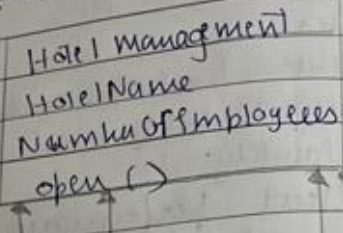
- Security: Encryption of sensitive data, role-based access control for staff and members.
- Portability: Accessibility across different devices and platform.
- Reliability: Minimal downtime, data backup and recovery mechanisms.
- Scalability: Ability to accommodate growing library collections and user base.

8) Preliminary Schedule and Budget

The development of library management system is estimated to take 6 months with a budget of \$80,000. This includes analysis, design, development, testing and deployment phases.

Class diagram

Hotel management



Employees
Employee id
Employee Name
Employee Salary
Employee details()

Customers
Customer id
Customer Name
Bill id
Order id
Payment id
Customer - details ()
Ordered - items ()
Payment - status

Menu
Item id
Item Name
Amount
Items()

Servant
Servant id
Order id
Chef
Chef id
Order id

Order
Order id
Item id
Item Name
Quantity
Customer id
Servant id
Order - items()

Table
Table number
Occupied status
Servant id
Customer id
Table details()
Availability status()

Payment
Payment id
Bill - id
is paid()

Bill
Bill - id
Order id
Total Bill
Calculate

Cash Card

