

LAB-1

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1) Hotel Management System

Problem Statement :

A hotel management system should be made streamline and automate various processes involved in managing a hotel, including reservations, check-ins, billing etc.

The system should provide an efficient & user friendly interface for both hotel staff & guests, while ensuring data security, accuracy & reliability.

SRS :

1. Introduction

1.1 Purpose of this document :

The purpose of this document is to outline the requirements & specifications for the development of a Hotel Management Software.

1.2 Scope of this document :

This document outlines the overall functionality, interface, requirements, performance expectations, design constraints, & non-functional attributes of the hotel management software.

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 & optimize hotel operations.

2. General Description

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

- Reservation Management
- Check in / Check out
- Billing & Invoicing
- Room inventory
- Guest profile
- Reporting & Analytics.

3. Functional Requirements

- Ability to create, modify & cancel requirements
- Realtime availability updates
- Room assignment & key management
- Generation of accurate bills
- Room inventory management
- Guest Profile Management
- Data analysis for decision-making.

4. Interface Requirements

The Hotel Management software will interact with users through:

- Graphical user Interface
- web-based interface for online reservations
- Mobile application for guests.

5. Performance Requirements

- Response time for user actions: < 2 seconds
- System uptime: 99.9%
- Concurrent user support: Minimum 100 users
- Data processing speed: Real-time updates.

6. Design Constraints

- use of secure protocols for data transmission
- compatibility with existing hardware & software infrastructure
- compliance with industry standards & regulations.

7. Non-functional Attributes

- Security: Encryption of sensitive data, role-based access control
- Portability: Compatibility with multiple devices & platforms
- Reliability: Minimal downtime, data backup & recovery mechanisms
- Reusability: Modular design for future enhancements
- Application compatibility: Integration with third party services

8. Preliminary Schedule & Budget

The development of the hotel management software is estimated to take 6 months with a budget of \$100,000. This includes analysis, design, development, testing & deployment phases.