

HOTEL MANAGEMENT SYSTEM

LAB-1

23/9/24

Software Requirement Specification (SRS)

1. Introduction

1.1 Purpose of this document:

This document outlines the requirements for the development of hotel management system. The purpose is to define the system's functionality, behaviour, and performance to streamline hotel operations like room booking, billing and reporting.

1.2 Scope: It aims to automate the tasks related to hotel operations. It will serve hotel staff to manage bookings, room availability, customer details and financial transactions efficiently.

1.3 Overview: The HMS is an application designed for hotel operators and customers. It includes modules for room reservations, billing and customer information management. The system ensures security and flexibility while handling different types of rooms, amenities and pricing.

2. Description:

The hotel management system allows hotel staff to manage room reservations, track check-in and check-out processes and manage customer data. Features include room availability tracking, customer record management, billing and report generation.

3. Functional Requirements:

- Room Booking: Allow customers to book rooms based on availability, room type and price.
- Check-in and check-out: track customer check-ins and check-outs updating room status in real-time.
- Room-availability: show real-time room status and pricing.

4. Interface Requirements:

- The system will have a web-based interface available to customers and hotel staff.
- Integration with the database to store and retrieve customer, room and booking information.

5. Performance Requirements:

- The system should support concurrent users access without performance degradation.
- The system should handle up to 500 concurrent transactions during peak times.
- Memory usage should remain below 70% during normal operation.

Design Constraints:

- The system will be developed using Java and a MySQL database.
- The system should support both desktop and mobile devices.

Non-functional Requirements:

- System downtime should not exceed 1% annually.
- The system should be able to handle an increase in customer and room capacity.
- Ensure consistent data when multiple users access or modify records.

Budget and schedule:

- The entire project can take around 6 months for completion starting with requirement specification, design, develop, deploy and testing.
- Budget: Around \$150,000 could be estimated
 - 1) Requirement specification: \$15,000
 - 2) Design phase: \$25,000
 - 3) Development: \$80,000
 - 4) Deploy and testing: \$27,500
 - 5) Maintenance: \$2,500.

HOTEL MANAGEMENT SYSTEM - CLASS DIAGRAM

