

SRS Document for

1) Hotel Management system

1. Introduction

1.1 purpose: The purpose of this document is to provide a detailed description of the hotel management system, which will handle the operation of the hotel, including room booking, guest management, billing and reporting.

1.2 Scope: The system will automate the daily tasks of the hotel management, such as guest registration, room booking, check-in/check-out, billing and reporting. It will be used by hotel staff, including receptionists, managers and house keepers.

1.3. Definitions Overview:

This document The Hotel Management system is a comprehensive software application designed for small to large hotels. It automates hotel operations and provides integrated solution for room reservation.

2. General Description.

2.1. Objectives of User.

- Hotel Managers: ability to view real-time reports, manage room availability, overseas billing and ensure the overall smooth operation of hotel.
- Receptionists: Facilitate guest check-ins & check-outs, manage room bookings, handle billing.
- Housekeeping staff: Manage room statuses and coordinate with staff.

2.2 User Characteristics.

Manager: Experience with hotel operations

Receptionists: Customer-service oriented, with basic knowledge of hotel systems.

Housekeeping staff: Familiar with hotel operations and room management.

Functional Requirements:

- Guest Registration & authentication: Allow guest to register with their details.
- User accounts will be created with authentication for secure access.
- Room Reservation.
- Checkin and Check out.
- Billing and payments.
- & Generate reports.

4. Interface Requirements

Software interface: system uses RESTful APIs for communication with external systems such as payment gateways and email address.

User Interface:

A web interface for receptionists & hotel managers to manage booking, payments and reports.

Communication interfaces:

SMS / Email Integration for booking confirmations and reminders to guests.

5) Performance Requirements.

1. Response Time: The system should provide real time updates for room availability.

- Response time for booking confirmation & checkin & check out should not exceed 2 seconds.

6 Design constraints.

- Software constraints: system use MySQL for databases.
- The frontend will be developed using React

Hardware constraints: The system will be deployed on a cloud based server to ensure scalability & reliability

NON-Functional Attributes

- security
- portability.
- Reliability
- scalability

8) Preliminary schedule & budget.

ph schedule:

phase 1: requirement gathering (2 weeks)

phase 2: system design & architecture (4 weeks)

phase 3: Development & implementation (8 weeks)

phase 4: Testing & quality assurance (4 weeks)

phase 5: Deployment & training (2 weeks)

Budget:

Development: 50,000

Hardware/software: 10,000

Testing & deployment: 5,000