LAB-1

SRS document for Hotel Management System

Introduction

The purpose of the document is to outline the requirements for Hotel Management System. It serves as a guide for developers, stakeholders and users to ensure a common understanding of the system's capabilities, features and constraints.

Scope of the document

This document provides a comprehensive overview of HMS detailing the functionalities it offers to streamline hotel operations.

Overview

The HMS is designed to manage hotel operations such as reservations, check-in, check outs, billing and reporting. It aims to provide a user-friendly interface to both hotel staff and guests.

General description

The HMS will allow hotel staff to manage bookings, maintain payments and maintain room availability. User characters include front desk staff, managers and maintenance personnel. The System's features includes:

i) Good Reservation System
ii) Room assignment
iii) Billing and invoice
iv) Reporting and analytics

Functional Requirement
i) User Registration : Users can create and manage
ii) Room booking : Users can check available rooms and make reservations
iii) Check in / Check out : Staff can check guest in and out the system
iv) Billing : The system calculate charges based on stay duration and services
v) Reporting : Generate occupancy and revenue report

Interface Requirements
The Items will interface with:
i) User interface : Web based frontend for users
ii) Database : SQL database
iii) Payment Gateway : API integration for processing payment

Performance Requirements
The System should:
i) Handle upto 100 simultaneous users
ii) Complete the payment transaction within 3 second
iii) Data retrieval from database within 2 second

Design Constraint
i) Must be developed using Java framework
ii) Compatible with MySQL database

iii) must operate on Windows and Linux environment

Non-functional attribute
Security Implement SSL and data encryption
Reliability 99.9% guarantee
Scalability must support expansion to multiple
                    locations

Preliminary schedule and budget
Initial budget $100,000
Project duration 6 months
Requirements Gathering 1 month
Development 3 months
Testing one month