Hotel Management System

# Introduction

* 1. **Purpose**

This document will provide a detailed description of the requirements for the Hotel Management System. This SRS will allow for a complete understanding of what is to be expected of the HMS to be constructed.

This document is intended for the software engineers constructing the HMS and the Hotel users.

* 1. **Scope**

HMS will automate the major hotel operations. Reservation and booking system to keep track of room availability, tracking charges of the current room, and general management services are automated by HMS. There will be two end users – customers and hotel staff.

* 1. **Overview**

The SRS is organized into 3 main sections.

* Section 2 contains general descriptions which includes requirements of the HMS from a general high level perspective.
* Section 3 contains all specific requirements such as functional and non-functional.
  1. **Definitions and Abbreviations**
* HMS: Hotel Management System
* SRS: Software Requirement Specification
* Database: An organized collection of data
* Reservation: To reserve or block something so it is not available for others.

# General Description

* 1. **Product Perspective**
* HMS is an independent stand-alone system. It is totally self-contained.
* All databases for the HMs will be configured using MYSQL. These include room and customer information.
* Room database will include type of room and the occupancy status.
* Customer database will include all the information of the customer.
  1. **Product Functions**
     1. Reservation and booking system
* Allows customer to type in information.
* Tentative room rates are displayed upon successful booking.
* The databases will be updated.
* Customer has ability to modify a reservation.
  + 1. Tracking food and room services
* Charges the current room as necessary.
* Tracks all meals and services availed.
  + 1. General Management Services
* Creation of users and assigning passwords.
* Modification on room rates, menu items and prices, and user profiles.
  1. **User characteristics**

No high educational knowledge required to operate HMS. Staff and customers with basic technical expertise will be able to use HMS.

# Specific Requirements

* 1. **Functional Requirements**
     1. *Make Reservations*
* Input: Customer details, Check-in date, check-out date, number of nights, room type
* Processing: Validate the given details and record the information in to the database.
* Output: Database update message.
  + 1. *Search Rooms*
* Input: Period, check-in, check-out
* Processing: Check for available rooms for the given time period.
* Output: Display a message and rooms available.
  + 1. *Order Food*
* Input: Item specifications, amount, room number
* Processing: Order is given to the hotel canteen.
* Output: Generate a bill.
  + 1. *Avail room service*
* Input: Type, room number
* Processing: Hotel support staff will be informed.
* Output: Service is provided.
  + 1. *Issue bill*
* Input: Billing number, taxes, services, food bills, room rates
* Processing: All the bills are aggregated and taxes are included.
* Output: Printable bill
  1. **Non Functional Requirements**
     1. *Reliability*

This software is reliable as all data is backed up weekly.

* + 1. *Security*

Staff and customers have unique logins to access this system functions.

* + 1. *Maintainability*

This system is developed in C++.

* + 1. *Usability*

This system will be usable by anyone with basic technical knowledge.

* + 1. *Availability*

The system shall be available during normal hotel operating hours.

* 1. **External Interface**
     1. *User Interface*

A graphical User Interface is employed for each section of the system.

* + 1. *Software Interface*

The system shall interface with an Oracle or MySQL database. It requires minimum RAM of 256MB and memory space of 1GB to run.

* + 1. *Hardware Interface*

The system shall run on Microsoft Windows based system.

* + 1. *Communicational Interface*

No restrictions to a specific protocol.