5/4/24

# Lab - 1

* Hotel management sim reaches upgrades to enhance operating guest satisfaction and meet industry standards.

## ① Hotel management sim (HMS) Software requirements specification (SRS)

### 1) Introduction :-

-1.1 Purpose of this Document :** To provide a comprehensive understanding of the requirements and functionalities of the HMS.

-1.2 Scope of this Doc :** Describes the intended users, features and benefits of the HMS, along with development cost and time estimates.

-1.3 Overview :** Gives a brief summary of the HMS, outlining its primary functions such as room booking, check-in/out, and billing.

### 2) General Description :

→ Goal : make hotel operations smoother, improving both efficiency and guest satisfaction.

→ User : Front desk staff, housekeeping and guests.

→ Features :
- Room Booking : Guests can book online or at the front desk.
- ~~Room~~ Check in/out : makes checking in and out easier for guests.
- Inventory management : keeps track of available rooms, housekeeping staff, & amenities.
- Billing : Handles invoices, payments, and accounts.

→ Significance : Boost guest happiness, revenue, & reputation

→ Users : Hotel staff and guests, each with different access levels.

3) Functional Requirements :-

-> Room booking : users find and book rooms.

-> Check-in/out : Staff check-in guests, to handle check-out and pay bills

-> Inventory management : Sim updates room availability and tracks supplies.

-> Billing : Generates invoices and integrates with payment gateways.

4) Interface Requirements :

-> User Interface : Easy to use interfaces for staff and guests on web browsers or mobile apps.

-> Payment Integration : Links with payment gateways like Paypal or Stripe for secure online payments.

-> Communication :

Sends email notifications for booking confirmations, reminders, and feedback requests.

5) Performance Requirements :

-> Response Time :

quick sim response with minimal delays.

-> Availability :

24/7 availability, with maintenance communicated before hand.

-> Scalability :

Can handle peak loads during busy times

6)

-> Hardware / Software :
Compatible with existing s/m and supports multiple platforms.

-> Regulatory compliance : meets data protection and industry standards.

7) Non - Functional Attributes :

-> Encryption : Protects sensitive data.

-> Access control : Limits unauthorised access.

-> Reliability : Reliable s/m with fail over mechanisms

-> Usability : Easy to use interfaces

-> Scalability : Can grow to accomodate more users.

8) Preliminary schedule and Budget :

-> Schedule : Timeline for development ; testing , and deployment :

-> Budget : Estimated costs for development ; licences and infrastructures

This can range from $ 20,000 : to $ 1000000 more advance s/ms . with extensive features.