Hotel Booking App

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# **1.** **Introduction**

## **1.1** **Purpose**

The purpose of this document is to define the requirements for the development of a Hotel Booking App to facilitate hotel reservations and management.

## **1.2** **Objective**

● To deal with Hotel Management System in an easy and an efficient manner.

● Create strong and secrete database that allow for any connection in a secret way, to prevent any outside or inside attacks.

## **1.3** **Scope of the Project**

Certainly:

- **Accommodation Management System**: Designed for managing accommodations such as hotels, resorts, and lodges.

- P**redefined Criteria for Reservations:** hotels have predefined criteria for making reservations. This includes factors like room availability, pricing, room type preferences, and any special requests from guests.

- **Checking Attested Application Forms**: In this context, it involves verifying and processing reservation requests or bookings received from guests. This may include checking for accuracy, confirming payment information, and ensuring any special requests or requirements are noted and accommodated.

## **1.4** **Overview of Project**

The Hotel Management System is a comprehensive software solution designed to streamline all aspects of hotel operations. It facilitates reservation management, guest check-ins/check-outs, billing, and inventory management. Additionally, it provides analytics for informed decision-making and enhances guest satisfaction through efficient service delivery.

# **2.** **Overall Description**

## **2.1** **System Requirement**

The Web Application has two main parts:

1) Hotel Administrators

2) Customers

Guests can choose from available hotels , and hotel administrators can assign room numbers within the chosen hotel based on availability. This ensures efficient accommodation allocation and utilization of hotel resources.

# **3.** **User Requirements Definition**

The user requirement for this system is to make the system fast, flexible, less prone to error, reduce expenses and save the time.

1. Less human error

2. Strength and strain of manual labor can be reduced

3. High security

4. Data redundancy can be avoided to some extent

5. Data consistency

6. Easy to handle

7. Easy data updating

8. Easy record keeping

9. Backup data can be easily generated.

# **4.** **System Requirement Specification**

## **4.1** **Functional System Requirement**

This section gives a functional requirement that applicable to the HMS. These are sub modules in this phase.

● Administrator module.

● User Module

● Application Module

#### **The functionality of each module is as follows:**

### **●** **Administrator module:**

The Administrator can :

1. Allot different students to the different Hotels.

2. Vacate the students from the Hotels.

3. Edit the details of the students & modify the student records.

### **●** **User module:**

1. Can submit the application form

2. Can view the notice board

3. Can submit the vacating form.

### **●** **Application module:**

This section provides a form to the students which can be filled by them, and a copy of the filled page can be taken in the printed form. This is later submitted to the Hotel authorities can be verified by them before allotting them to the respective Hotels Rooms.

## **4.2** **Non-Functional System Requirements:**

### **4.2.1** **Performance Requirements**

Some Performance requirements identified is listed below:

1. The database shall be able to accommodate around thousand records to store.

2. The software shall support use of multiple users at a time.

### **4.2.2** **Safety Requirements**

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database Backup.

### **4.2.3** **Security Requirements**

Some of the factors that are identified to protect the software from accidental or malicious access, use, modification, destruction, or disclosure are described below. Keep specific log or history data sets

1. Assign certain functions to different modules

2. Restrict communications between some areas of the program

3. Check data integrity for critical variables

4. Later version of the software will incorporate encryption

5. techniques in the user/license authentication process.

# **5.** **Hardware Requirements**

● Processor: Pentium or greater

● RAM: 512MB

● Hard Disk: Depends on how much data is stored in DATABASE (min 1GB)

● Keyboard

● Monitor

# **6.** **Software Requirements**

● OS: Linux

● Database: SQL