

# Problem Statement

The old manual system was suffering from a series of drawbacks. Since the whole of the system was to be maintained with hands the process of keeping, maintaining and retrieving the information was very tedious and lengthy. The records were never used to be a systematic order; there used to be lots of difficulties in associating any particular transaction with a particular context. If any information was to be found it was required to go through the different registers, documents there would never exit anything like report generation. There would always be unnecessary consumption of time while entering records and retrieving records. Once the records were entered it was very difficult to update these records

## Software Requirement Specification(SRS) for Hotel Management

### 1 Introduction:

- 1.1 **Purpose of this Document:** The purpose of hotel booking system is to automate the existing manual system by the help of computerized equipments and full fledged computer software, fulfilling their requirement, so that their valuable or information can be stored for a longer period with easy accessing and manipulating of the same . The required software and hardware are easily available and easy to work with.
- 1.2 **Scope of this document** – The Hotel Management System is designed to serve the needs of hotels of all sizes, from small boutique hotels to large international chains. The system will be web-based and accessible through desktop and mobile devices.
- 1.3 **Overview** – Hotel Management System is a system that provides us to reserving rooms, checking whether the rooms are vacant are or not etc by using online browsing. This system is very useful to all especially for business people.

- 2 **General description:** Hotel Management System is a hotel reservation site script where site users will be able to search rooms availability with an online booking reservations system. Site users can also browse hotels, view room inventory, check availability, and book reservations in real-time. Site users enter check in date and check out date then search for availability and rates. After choosing the right room in the wanted hotel – all booking and reservation process is done on the site and an SMS is sent to confirm the booking.

Advantage :

- 1.The advantages of booking a hotel online add up long before your arrival.
2. Read reviews and compare prices for Online Hotel Booking.

3 **Functional Requirements:**The following are the functional requirements of the Hotel Management System :

- 1.Online Room Reservation: Guests can search for and book available rooms online, and receive confirmation of their booking.
2. Check-In and Check-Out: Guests can check-in and check-out of their rooms using a self-service or through the front desk.
- 3.Room Management: Hotel staff can manage room availability, allocate rooms, and track room occupancy through the system.
- 4.Housekeeping: Housekeeping staff can view room cleaning schedules and mark rooms as cleaned.
- 5.Maintenance: Maintenance staff can log and track maintenance issues, assign tasks, and mark issues as resolved.
- 6.Billing and Payment: The system will generate accurate bills and allow guests to pay for their stay online or at the front desk.
- 7.Reporting and Analysis: The system will provide accurate and real-time reporting and analysis of hotel operations, such as occupancy rates, revenue, and guest reviews.

4 **Interface Requirements:**

User Interface : User Interface must be compatible for all type web browser such as Google chrome , Safari Browser , Internet Explorer etc.

Software Interfaces :

Web server - Apache

Database server - MongoDB

Development end -Java , HTML , JavaScript,.CSS.

- 5 **Performance Requirements:** The collection of internal electronic circuits and external physical devices used in building a computer is called the Hardware. The minimum hardware requirement specifications for developing this project are as follows:  
Processor :

Standard processor with a speed of 1.6 GHz

RAM : 256 MB RAM or more

Hard Disk : 20 GB or more

Monitor : Standard color monitor.

- 6 **Design Constraints:** The following are the constraints of the Hotel Management System:

The system must comply with local laws and regulations regarding data privacy and security.

The system must integrate with the hotel's existing hardware and software systems, such as the property management system and accounting software.

- 7 **Non-Functional Attributes:**

- Security: The system will use secure encryption and data protection methods to ensure guest and hotel data is kept confidential and safe.
- Scalability: The system will be able to handle high traffic and scale up or down depending on demand.
- Usability: The system will be user-friendly and intuitive, with clear instructions and minimal training required for hotel staff and guests.
- Performance: The system will be fast and responsive, with minimal downtime or lag time.
- Compatibility: The system will be compatible with major web browsers and mobile devices.

## 8 **Preliminary Schedule and Budget:**

### **Preliminary Schedule:**

Requirements gathering and analysis: 1-2 weeks

System design and architecture: 2-4 weeks

Development and testing: 10-16 weeks

Integration and deployment: 2-4 weeks

Training and user acceptance testing: 2-4 weeks

Total: 17-30 weeks (approximately 4-7 months)

### **Preliminary Budget:**

Requirements gathering and analysis: \$5,000 - \$10,000

System design and architecture: \$10,000 - \$20,000

Development and testing: \$50,000 - \$100,000

Integration and deployment: \$10,000 - \$20,000

Training and user acceptance testing: \$5,000 - \$10,000

Total: \$80,000 - \$160,000 (approximately)