

Software Requirement Specification (SRS)

* Hotel Management System

1. Problem Statement.

- Traditional hotel management often rely on manual methods, leading to inefficiencies, errors and delays. To address these challenges, there is a need for a comprehensive hotel management system (HMS) that automates various tasks including reservation man., guest services, billing, inventory control, reporting etc.

2. Introduction.

2.1 Purpose of this document.

- The main aim of this document is to specify all the requirements for hotel manag. system.

2.2 Scope of this document

- The objective of the hotel management system is to simplify the day to day processes of system. This system will be able to handle many services to take care of customer in a quick and efficient manner.

2.3 Overview

- Gives a brief summary of the HMS, outlining its primary functions such as room booking, check-in/out, billing etc.

3. General description

The online HMS is a new self contained software product which will be produced by the developers in order to overcome the problems that have occurred

due to the current manual system. This proposed system will provide an easy access to the system & it will also user friendly functions with attractive interface. The system will give better options for the problem of handling large scale of physical file system, error occurring in calculations & other task that has been specified by the users. The final outcome of this project will increase the efficiency of almost all task done at hotel in much convenient way.

4. Functional Requirements.

- check in & checkout.
- Facilitate the check-in & check-out process for users, including verifying identity & payment information.
- Room amenities
- Allows user to view and select the room amenities.
- Billing and payment.
- Provides clear and transparent billing info & enable users to pay through various methods.
- Loyalty programs
- Allow users to enroll in loyalty programs & receive rewards for repeat business.
- Feedback and reviews.
- Provides user with an opportunity to give feedback & leave reviews of stay.

5. Interface Requirements.

Web development languages like HTML, CSS, Javascript & PHP will be used in order to develop this website. Bootstrap has also been used for

the responsive design of frontend so that it is customizable to devices having different dimensions. The backend runs on MySQL provided by XAMPP.

6. Performance Requirements.

- Response Time

System should respond promptly to user requests, with minimal latency.

- Availability

System should be available 24/7, with scheduled maintenance windows communicated in advance.

- Scalability

Ability to handle peak loads during high-demand periods (eg: holidays, events).

7. Design constraints.

- Hardware / Software limitations

compatibility with existing hardware & software infrastructure.

- compatibility with different OS & web browsers.

- compliance with library standards & protocols for cataloging & circulation.

8. Non-functional attributes

- Security - Encryption of sensitive data, role-based access control for staff and members.

- Portability - Accessibility across different devices & platforms.

- Reliability: Minimal downtime, data backup & recovery management.

9. Preliminary Schedule and Budget.

The development of library management system is estimated to take 6 months with a budget of \$ 80,000. This includes analysis, design, development, testing and development phases.