**Experiment-2**

Prepare an SRS document in line with the IEEE recommended standards for the specified Case Study. (Non-Functional Requirements).

1. **Introduction**

This Software Requirements Specification (SRS) document describes the functional requirements for a salon management system web application. The application will allow salon owners and managers to manage their business operations more efficiently, including appointment scheduling, customer management, inventory management, and financial reporting.

**2. Objectives**

The objectives of the salon management system web application are to:

* Improve the efficiency of salon operations by automating manual tasks
* Reduce the time and effort required to manage appointments, customers, inventory, and finances
* Provide salon owners and managers with real-time insights into their business performance
* Help salon owners and managers to improve their customer service

**3. Non-Functional Requirements**

The following are the non-functional requirements for the salon management system web application:

Security :-

* The application must implement industry-standard security measures to protect user data, including encryption and access control.
* All user passwords must be encrypted and stored securely.
* Only authorized users should be able to access the application and its data.
* The application must be able to withstand common security threats, such as SQL injection and cross-site scripting attacks.

Scalability :-

* The application must be able to scale to meet the needs of salons of all sizes.
* The application must be able to handle a large number of concurrent users without performance degradation.
* The application must be able to scale up or down as needed to meet changing demand.
* The application must be able to be deployed on a variety of hardware and software platforms.

Availability

* The application must be available 24/7/365 with minimal downtime.
* The application must have a disaster recovery plan in place to ensure that data is not lost in the event of a disaster.
* The application must be able to recover from failures quickly and efficiently.
* The application must be able to handle unexpected spikes in traffic without performance degradation.

Performance

* The application must respond to user requests in a timely manner.
* The application must be able to generate reports and perform other complex tasks without impacting performance.
* The application must be able to efficiently load and display data.

Maintainability

* The application must be well-documented and easy to understand.
* The application must be modular and reusable, to facilitate future development and maintenance.
* The application must use standard programming languages and frameworks, to make it easier to find qualified developers to maintain the application in the future.

Usability

* The application must be easy to use and navigate, even for users with limited technical experience.
* The application must have a clear and concise user interface.
* The application must provide helpful error messages and feedback to users.

**IEEE Recommended Standards**

The following IEEE recommended standards have been used in the preparation of this SRS document:

* IEEE Std 830-1998: IEEE Recommended Practice for Software Requirements Specifications
* IEEE Std 829-2008: IEEE Recommended Practice for Software Test Documentation

**Conclusion**

This SRS document has described the non-functional requirements for the salon management system web application. The application must be secure, scalable, available, performant, maintainable, and usable. These non-functional requirements are essential to ensuring that the application meets the needs of its users and is a success.