**2 SYSTEM REQUIREMENT SPECIFICATION**

**2.1 Introduction**

Software requirement specification describes completely an external behavior of the proposed software. The software requirement specification is a document that completely describes what the proposed software should do without describing how the software will do it. It lays out functional and non-functional requirements.The basic purpose of SRS is to bridge the communication gap between the user and developer. Another important purpose is if developing the SRS is helping the clients to understand their own needs. Boundaries of software products are defined set of requirements. The software developer team designing, implements, tests, and delivers these requirements to client. This software requirement specification document will be the basic for final system. A high-quality software specification is a pre-requisite to high quality software and to reduce development cost.

**2.2 Overall Description**

**2.2.1 Product Perspective**

**2.2.1.1 System Interface**

This application runs in the latest version of Chrome or Firefox browser on windows, Linux, and mac.

* + - 1. **User Interface**
* **GUI (Graphical user interface)** is used to interact between user and system through different components.
* Each part of the user interface is designed to be as user-friendly.
  + - 1. **Hardware Interface**
* **Processor:** 1.9 gigahertz (GHz) x86- or x64-bit dual core processor. Recommended- 3.3 gigahertz (GHz) or faster 64-bit dual core processor.
* **RAM:** Minimum 4GB,8GB is recommended.
* **Storage:** Minimum 64GB is needed.
  + - 1. **Software Interface**
* Windows Xp and higher version and any compatible browser like chrome, Edge, Internet explorer.
* Xampp and MySQL

**2.2.1.5 Communication Interface**

Stable internet connection and browser.

**2.2.1.6 Interface with Server**

This application allows to interface with SQL Server, Xampp.

**2.2.2 Product Function**

**Admin:** Admin can add, remove, update the price, item and dealer.

**Dealer:** Dealer can view the customer details and he can generate bill.

**Customer:** He/she can order the products and view the bill.

**2.2.3 User Characteristics**

**Admin:** He/she should have the knowledge of manipulating web applications.

**Dealer:** Basic knowledge of using computer and smartphone.

**Customer:** He/she should know how to use the browser and computer.

**2.2.4 General Constraints**

**Not Applicable**

* + 1. **Assumption and Dependencies**
* For windows 11 1 gigahertz (GHz) or faster with 2 or more cores on a compatible 64-bit processor or System on a Chip (SoC). 4 gigabytes (GB). 64 GB or larger storage device.
* The system is dependent on the availability of an Apache Tomcat Server to run.

**2.3 Special requirements**

**Not Applicable**

**2.4 Functional requirements**

**2.4.1 Admin module**

**2.4.1.1 Product management**

**2.4.1.1.1 Add**

**Input:** Enter the product details-name and price.

**Process:** It validates the products.

**Output:** The products will be added to the database

**2.4.1.1.2 Update**

**Input:** Enter the product id, name, price.

**Process:** Changes made are updated in database.

**Output:** The product details are updated in database otherwise the error message displayed.

**2.4.1.1.3 Delete**

**Input:** Enter the product id, name.

**Process:** Removes the data from database.

**Output:** Display the successful message else the error message will be displayed.

**2.4.1.2 Region management**

**2.4.1.2.1 Add**

**Input**: Enter Region Details.

**Process:** Verify the Region details.

**Output:** Region details is added to database.

**2.4.1.2.2 Delete**

**Input:** Enter Region details.

**Process:** Verify the Region details.

**Output:** Region details is deleted in database.

**2.4.1.3 Dealer allotment**

**Input:** Click on dealer allotment button or hyperlink.

**Process:** Retrieving the order details from the database

**Output:** Dealer will be allotted to the orders.

**2.4.1.4 Feedback and report**

**Input:** EnterFeedback Id, Feedback.

**Process:** Feedback fill be verified.

**Output:** Feedback will be stored and reviewed.

**2.4.1.5 Dealer Authorization**

**Input:** Select a dealer based on customer address.

**Process:** Processing the dealer address to customeraddress.

**Output:** Dealer allotted to customer

**2.4.2 Dealer**

**2.4.2.1 Bill Generation**

**Input:** Click the generate bill link

**Process:** The bill will be generated and converted to PDF format.

**Output:** The final bill will be generated based on order.

**2.4.2.2 View Order**

**Input:** Customer order details-name, address, contact information.

**Process:** Process the input.

**Output:** Shows the order details.

**2.4.2.3 View Status**

**Input:** Clicking on view status button.

**Process:** Loads the status information.

**Output:** Shows status whether dealer is selected or not.

**2.4.3 Customer**

**2.4.3.1 Registration**

**Input:** Enter username, password.

**Process:** It validate and check the person is authorized customer or not.

**Output:** It gives an access to customer for process.

**2.4.3.2 Order Placement**

**Input:** Select the items.

**Process:** Verifies and process the order.

**Output:** Notification will be sent to customer and bill will be generated.

**2.4.3.3 Feedback and Report**

**Input:** Enter the feedback or report and customer id.

**Process:** Process the id and feedback or report and stores it.

**Output:** Notification message will be shown regarding feedback or report.

**2.5 Design Constraints**

**2.5.1 Hardware Constraints**

**RAM:**4 GB or higher

**Storage:**64 GB or higher

**2.5.2 Software Constraints**

HTML, CSS, PHP, MySQL, Internet, Browser.

**2.5.3 Fault Tolerance**

At the time of verification and validation invalid information will be removed.

Only valid data will be stored in the database. Manual entries are avoided.

**2.5.4 Security**

Only authorized user can access the application by using their username and password.

**2.5.5 Standard Compliances**

**Not Applicable**

**2.6 System Attributes**

* **Availability**

Available for 24x7

* **Portability**

This application is machine independent and can be used in any systems.

* **Reliability**

This application is reliable and works efficiently. All input data will be verified and validated to avoid system failure.

* **Maintainability**

The application is maintained in a better way by providing updates. If any requirement needed it should be updated immediately.

* **Scalability**

The application’s functionalities can be changed as per the user’s demand. Software will remain stable and works constantly while making changes or updating or upgrading software.

**2.7 Other Requirements**

**Not Applicable**