# **Software Requirement Specification(SRS)**

# **Introduction**:

## **Purpose of this Document:** The purpose of this Software Requirement Specification (SRS) document is to provide a detailed description of the requirements for the development of a Stock Maintenance System. This document aims to describe the objectives, scope, and constraints of the project.

## **Scope of this document** – The Stock Maintenance System is designed to provide a solution for managing the stock inventory of a retail store. The system will allow the store managers to monitor stock levels, track stock movements, and generate reports. The system will also enable the store staff to place orders for new stock when required.

## **Overview** – The Stock Maintenance System will be a web-based application that will be accessible from any device with an internet connection. The system will be user-friendly and easy to navigate. The system will be designed to provide real-time updates on stock levels and movements.

# **General description:**

# The Stock Maintenance System will have the following features:

# User objectives: The primary objective of the system is to manage the stock inventory of a retail store.

# User characteristics: The system will be designed for use by store managers and store staff.

# Features: The system will provide real-time updates on stock levels, enable stock movements to be tracked, and allow orders for new stock to be placed.

# Benefits: The system will enable the store managers to make informed decisions about stock inventory and ordering.

# User community: The system will be used by the staff of a retail store.

# In this, general functions of the product which includes the objective of the user, a user characteristic, features, benefits, about why its importance is mentioned. It also describes features of user community.

# **Functional Requirements:**

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# The system should be able to track the stock levels of each product in the inventory.

# The system should be able to track the movements of stock in and out of the store.

# The system should be able to generate reports on stock levels and movements.

# The system should be able to place orders for new stock when required.

# The system should be able to notify store managers when stock levels fall below a specified threshold.

# **Interface Requirements:**

# The system should have a user-friendly interface.

# The system should be accessible from any device with an internet connection.

# The system should be able to communicate with external systems for ordering stock.

# **Performance Requirements:**

# The system should be able to handle a large number of stock movements simultaneously.

# The system should be able to generate reports quickly.

# The system should be able to handle a large number of users simultaneously.

# **Design Constraints:**

# The system should be designed to be compatible with the hardware and software of the retail store.

# The system should use a secure algorithm for communication between the server and client.

# The system should be designed to be scalable and extensible.

# **Non-Functional Attributes:**

# Security: The system should have security features to prevent unauthorized access.

# Portability: The system should be designed to be compatible with different operating systems and devices.

# Reliability: The system should be reliable and provide accurate information.

# Reusability: The system should be designed to be reusable in other retail stores.

# Application compatibility: The system should be compatible with other software applications used by the retail store.

# Data integrity: The system should be designed to ensure the integrity of the stock data.

# Scalability capacity: The system should be designed to handle a large number of users and stock movements.

# **Preliminary Schedule and Budget:**

# The development of the Stock Maintenance System is expected to take six months with a budget of ₹50,000. The schedule and budget are subject to change based on the requirements and constraints of the project.