**LAB 2 - STOCK MANAGEMENT SYSTEM**

**USN : 1BM20CS195**

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**AIM -** To write the Problem Statement and Software Requirements Specification (SRS) for Stock Management System.

# **Problem Statement:**

To design a more efficient and effective stock management system, there is a need to address the challenges faced by businesses in managing their inventory. These challenges include inaccurate inventory tracking, inefficient order processing, and difficulties in forecasting demand. A new system is required that can improve inventory accuracy, streamline order processing, and provide better visibility into inventory levels and trends.

**Software Requirement Specification(SRS)**

**Introduction:**

**1.1 Purpose of this Document:**

The purpose of this document is to outline the functional and non-functional requirements for a Stock Management System to be developed for ABC Corporation.

**1.2 Scope of this document:**

This document describes the overall functionality of the Stock Management System and its features. It also includes the development cost and time required to develop the system.

**1.3 Overview:**

The Stock Management System is a software application designed to manage and track inventory levels, sales, and purchases of products. It will provide users with a user-friendly interface to manage stocks and generate reports.

**2 General Description:**

The Stock Management System will enable users to track inventory levels, sales, and purchases of products. The system will be able to provide real-time information on the stock levels, making it easier for users to manage their inventory. The system will be designed for businesses of all sizes and will provide features to manage multiple warehouses and product categories.

**3 Functional Requirements:**

The following are the functional requirements of the Stock Management System:

* Inventory Management: The system should be able to manage the inventory levels of products and provide real-time information on stock levels. Users should be able to add new products, update product information, and manage product categories.
* Sales Management: The system should be able to manage sales of products and provide reports on sales. Users should be able to create sales invoices, generate reports on sales, and view customer history.
* Purchase Management: The system should be able to manage purchases of products and provide reports on purchases. Users should be able to create purchase orders, generate reports on purchases, and view vendor history.
* Warehouse Management: The system should be able to manage multiple warehouses and transfer products between warehouses.
* Reporting: The system should be able to generate reports on inventory levels, sales, purchases, and other relevant metrics.

**4 Interface Requirements:**

The interface requirements for the Stock Management System include:

* User-friendly interface design
* Navigation and accessibility
* Data input and output
* Integration with other software and systems

**5 Performance Requirements:**

The performance requirements for the Stock Management System are as follows:

* Ability to handle large amounts of data
* Real-time data access and reporting
* Quick report generation
* High availability and uptime

**6 Design Constraints:**

The design constraints for the Stock Management System are as follows:

* Scalability
* Security
* Ease of maintenance
* Use of industry-standard programming languages and frameworks

**7 Non-Functional Attributes:**

The non-functional attributes required by the Stock Management System are as follows:

* Security
* Portability
* Reliability
* Reusability
* Application compatibility
* Data integrity
* Scalability capacity

**8 Preliminary Schedule and Budget:**

This section outlines the initial version and budget of the project plan, including:

* Overall time duration required
* Overall cost required for development of the project.