

# SRS document for Stock Maintenance

## 1. INTRODUCTION

### 1.1 Purpose of this document:

To specify the software requirements for a Stock Maintenance System, which helps manage and track inventory, levels, orders, sales and deliveries.

### 1.2 Scope of this document:

Users can add, update, and remove stock items, track stock levels, generate reports and manage suppliers. The system supports notifications for low stock levels and facilitates order management.

### 1.3 Overview:

This document provides detailed information about the requirements & general procedures for stock management.

## 2. General Description

### 2.1 Product Perspective:

#### → Staff Perspective:

- \* View details of stock items, including quantities, descriptions, prices and suppliers

- \* Generate and view reports on stock levels, sales, and orders.

#### → Management Perspective:

- \* Access analytical dashboards for inventory trends, low stock alerts and financial summaries.

- \* Manage supplier details & performance.

## 2.2 Product Functions:

- \* Add, update and delete stock items
- \* Track stock levels and manage reordering
- \* Generate reports (sales, inventory status, supplier performance)
- \* Manage suppliers & purchase orders
- \* Receive notifications for low stock levels

## 2.3 User characteristics:

- \* Users include inventory staff, managers and suppliers.
- \* Staff must have basic computer skills to operate the system.

## 2.4 General Constraints:

- \* Users must have appropriate permissions to add or modify stock.
- \* The system must operate within the organization's existing IT infrastructure.
- \* Stock updates should occur in real time to ensure data accuracy.

## 2.5 Assumptions and Dependencies:

- \* Users will input accurate stock information.
- \* The system will rely on existing database infrastructure for data storage.
- \* Users will have internet access for online features, if applicable.

### 3. Functional Requirements:

#### 1. Stock Management System:

- Users can add new stock items, including SKUs, descriptions, and quantities.
- Users can update existing stock details and remove stock items as necessary.

#### 2. Reporting System:

- Generate reports on inventory levels, sales data, and supplier information.

#### 3. Notification System:

- Automated alerts for low stock levels & reorder reminders.

#### 4. Supplier Management:

- Add and manage supplier details, including contact information & pricing.

### 4. Interface Requirements:

\* User Interface (UI): Be intuitive & easy to navigate.

\* API Interface: enables external systems to interact with stock maintenance system.

\* Database Interface: Responsible for interacting with the underlying database to manage stock & related data.

### 5. Performance Requirement:

\* Response Time: System should return stock results within 2 seconds.

\* Availability: The system should be available 99.99% of the time, excluding scheduled maintenance.

\* Error Handling: The system should provide user friendly error messages & recovery options.

\* Security: All sensitive data should be encrypted in storage & during transmission.



## 6. Design Constraints:

### 1. Database Structure:

The database must be relational DBMS to maintain structured inventory data.

### 2. Microservices Architecture:

The system should be developed using microservices for modular functionality and scalability.

### 3. Integration with existing systems:

The stock maintenance system must integrate with existing ERP or accounting systems.

### 4. Hardware Limitations:

The system must operate on standard server hardware specified by the organization.

## I Non Functional Requirements:

→ Performance: The system should process stock updates within 2 seconds.

→ Scalability: Capable of handling inventory data for atleast 10,000 stock items.

→ Security: Ensure confidentiality of sensitive supplier and stock information.

→ Usability: Intuitive UI that requires minimal training for new users.

## B. Preliminary Schedule & Budget:

The stock maintenance system project is estimated to take approx 5 months to complete. This includes hiring staff & engineers, planning & designing the software architecture, developing the system, conducting tests etc.

A budget of 3 lakhs is required to cover personnel costs, database costs etc.