

(2) Stock Maintenance System

(1) Introduction

1.1 Purpose

The purpose of this SRS document is to define the functional and non-functional requirements for stock maintenance system.

1.2 Scope

The Stock maintenance System will serve as a centralized platform to manage the stock life cycle - from receiving goods into inventory to dispatching them for sales or production use.

1.3 Overview

This SRS document provides description of Stock maintenance system, detailing its functional and non-functional requirements.

(2) General Description

It will be a web-based application designed to manage inventory, orders and supplier relationship.

The system will integrate with existing point of sales system.

(3) Functional Requirements

(a) User Authentication

- Implement role based access control for inventory managers, sales and admin users.

(b) Inventory Management

- Manage stock levels for multiple

warehouse.

Add on update stock/records.

(3) Order management

- Create new purchase order with order date, delivery date and items.

(4) Interface requirement - stock adjustment

- Update inventory upon successful receipt of goods.

(5) Reporting - generate inventory, order, and supplier performance report.

(4) Interface Requirements

- The system should have clean, responsive interface.
- Interface with external systems like accounting software.

The system should communicate using secure protocols like https, TLS 1.3, and SSL 3.0.

(5) Performance Requirements

- The system should be able to handle 1,000 concurrent users.

Average response time should not exceed 1.5s.

Stock updates should reflect across the system.

6) Design constraint

- The system must use a relational database to ensure data integrity.

Implement data validation and error handling to prevent inconsistencies.

7) Non functional Requirements

- Security - use role-based access control to restrict unauthorized operation.

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scalability - optimise database queries to handle large dataset efficiently

Maintainability - use a modular code structure for easy maintenance.

usability - The system should be intuitive, with clear navigation.

8) Preliminary Schedule and Budget

Budget estimate:

Development: \$ 80,000

Testing: \$ 16,000

Hardware & Software: \$ 25,000

Miscellaneous: \$ 5,000

Total estimated budget: \$ 126,000