**STOCK MAINTENANCE SYSTEM**

**Table of Contents:**

|  |  |
| --- | --- |
| **1.Introduction** |  |
| **2. General Description** |  |
| **3. Functional Requirements** |  |
| **4. Interface Requirements** |  |
| **5. Performance Requirements** |  |
| **6. Other non-functional attributes** |  |
| **7. Preliminary Use Case Models and Sequence Diagrams** |  |
| **8. Updated Schedule** |  |
| **9. Appendices** |  |

**1. Introduction**

1.1 Purpose of this Document

The purpose of this document is to outline the requirements and specifications for the development of a stock management system. It defines the system’s scope, objectives, and constraints.

1.2 Scope of this Document

This SRS covers the functional and non-functional requirements of the stock management system. It serves as a reference for developers, testers, and stakeholders.

1.3 Overview

The stock management system aims to track inventory, manage stock levels, and facilitate efficient stock replenishment. It will be used by warehouse staff, managers, and administrators.

1.4 Business Context

The system will be deployed in a retail organization with multiple warehouses and stores. It will integrate with existing inventory systems and provide real-time stock information.

**2. General Description**

2.1 Product Functions

Inventory Tracking: Monitor stock levels, item quantities, and locations.

Order Management: Process stock orders, including purchase orders and stock transfers.

Reporting: Generate stock reports, low-stock alerts, and historical usage data.

2.2 Similar System Information

The stock management system will be similar to existing inventory management software used in the industry.

2.3 User Characteristics

Users include warehouse staff, managers, and administrators. Basic computer literacy is assumed.

2.4 User Problem Statement

The current manual stock tracking process is time-consuming and error-prone. The organization needs an automated solution.

2.5 User Objectives

Efficiently manage stock levels.

Reduce stockouts and overstock situations.

Improve order fulfillment processes.

2.6 General Constraints

The system must be web-based.

Integration with existing ERP systems is required.

**3. Functional Requirements**

The system shall:

Allow users to add, update, and delete stock items.

Provide real-time stock availability information.

Support stock transfers between warehouses.

**4. Interface Requirements**

4.1 User Interfaces

Dashboard: Display stock levels, alerts, and order status.

Item Management: Add, edit, and delete stock items.

Reports: Generate stock reports.

4.2 Hardware Interfaces

The system will run on standard web browsers and require internet connectivity.

4.3 Software Interfaces

Database: Integrate with the existing inventory database.

ERP System: Exchange data with the organization’s ERP system.

**5. Performance Requirements**

Response time for stock queries: < 2 seconds.

Concurrent user support: 50 users.

**6. Other Non-functional Attributes**

6.1 Security

User authentication and authorization.

Data encryption for sensitive information.

6.2 Reliability

System uptime: 99.9%.

Backup and recovery mechanisms.

6.3 Maintainability

Modular code structure.

Version control.

6.4 Portability

Web-based system accessible from various devices.

6.5 Extensibility

Ability to add new features.

6.6 Reusability

Reusable components.

6.7 Application Affinity/Compatibility

Compatible with major web browsers.

**7. Preliminary Use Case Models and Sequence Diagrams**

7.1 Use Case Model

View Stock Levels

Add Stock Item

Process Stock Order

7.2 Sequence Diagrams

Sequence diagram for stock replenishment process.

**8. Updated Schedule**

The development timeline will be provided separately.

**9. Appendices**

9.1 Definitions, Acronyms, Abbreviations

ERP: Enterprise Resource Planning

SRS: Software Requirements Specification

9.2 References

[Organization’s internal documentation]

[Industry best practices]