

4. Stock Maintenance System

1. Introduction

1.1 Purpose

The stock maintenance System (SMS) maintain inventory details and streamline stock tracking.

1.2 Document Convention

This document adheres to standard SRS structure.

1.3 Intended Audience

The System is for warehouse managers, sales staff, and developers.

1.4 Project Scope

The System reduces manual handling, prevents shortages and ensures timely updates of inventory.

1.5 References.

Inventory management best practices, IEEE SRS guidelines.

2 Overall Description.

2.1 The system provides real-time stock management integrated with a central database.

2.2 Product Functions.

Stock entry, update, reorder alerts, and report generations.

2.3 User classes.

Admin, staff, and auditors.

2.4 Operating environment.

Desktop / web application with database backend.

2.5 Constraints

System must handle concurrent access.

2.6 Documentation.

User manuals and installation guides will be delivered.

2.7 Assumptions and dependencies.

System assumes proper barcode scanning hardware and stable power supply.

3. Specific requirements.

3.1 Functional requirements

* add and update stock items.

* Track stock levels with alerts.

* Generate purchase orders when below threshold.

* Produce sales and inventory reports.

3.2 External Interface Requirements.

- * Barcode scanner support
- * Database and reporting modules.

3.3 System Features

- * Real time stock tracking
- * Low-stock notifications.

3.4 Non-functional requirements

- * 24/7 availability.
- * Secure data storage
- * Accuracy tolerance $< 1\%$

4. Appendices.

4.1 Glossary.

SMS - Stock Maintenance System
SKU - Stock Keeping Unit.

4.2 Future enhancements.

Mobile app and AI-based demand forecasting