

④ Stock Management System - SRS Document

1. Introduction

1.1 Purpose

To automate the process of tracking, managing & controlling inventory across warehouses, shops or businesses & ensures real-time stock updates.

1.2 Scope

The SMS will handle inventory tracking, stock entry/exit, supplier details, order management, & reporting. It can be used in retail stores, warehouses or manufacturing industries.

1.3 Overview

The system handles stocks & provides real time stock updates.

2. General Description

The system maintains a centralized inventory database to record all stock movements. It supports multi-user access with role-based privileges.

3. Functional Requirements

3.1 Product management

3.2 Stock Tracking

3.3 Supplier Management

3.4 Alerts & Notifications

4. Interface Requirements

- 4.1 UI: Dashboards with graphs
- 4.2 Hardware Interface: Barcode / RFID scanners
- 4.3 Software Interface: Accounting software

5. Performance Requirements

- 5.1 Must support at least 1000 concurrent transactions
- 5.2 Stock updates should reflect in real time

6. Design Requirements

- 6.1 Modular Architecture
- 6.2 Relational Database with normalized schema
- 6.3 Role-based Access.

7. Non-functional Attributes

- 7.1 Security
- 7.2 Reliability
- 7.3 Usability
- 7.4 Scalability

8. Preliminary Schedule & Budget

Phase	Duration	Estimated Cost
Requirement Analysis	2 weeks	\$2,000
System Design	3 weeks	\$3,000
Development	10 weeks	\$8,000
Testing	4 weeks	\$5,000
Deployment	2 weeks	\$1,000
Total	21 weeks	\$19,000