

- SRS for stock Maintenance System 02/09/2023

1. Introduction:

1.1 Purpose:

To define the requirements of an automated stock/inventory management system.

1.2 Scope:

The system tracks goods in/out, monitors inventory levels, generates stock alerts, and maintains supplier records.

1.3 Overview:

SMS will streamline inventory management for warehouses, shops and enterprises.

2. General Description:

Supports store managers, staff, and suppliers by maintaining stock records, purchase orders, and consumption reports.

3. Functional Requirements:

- Stock Management: Add, update, and delete stock items.
- Supplier Management: Maintain supplier details and purchase history.
- Inventory Tracking: Track stock in/out with dates.
- Low-stock alerts: Notify users of critical stock levels.
- Reports: Generate purchase, consumption, and balance stock reports.

4. Interface Requirements:

- UI: Intuitive dashboard for stock visualization.
- Integration: Barcode scanner integration.

5. Performance Requirements:-

Handle 200 concurrent users, Response time ≤ 3 seconds, Real-time update of stock levels.

6. Design Constraints:-

Relational Database (MySQL), Backend can be Java / Spring Boot.

7. Non-Functional Requirements:-

- Security: Access control for managers and staff.
- Reliability: Backup and recovery system.
- Scalability: support for multi-warehouse operations.
- Usability: Easy to operate with minimal training.

8. Preliminary Schedule and Budget:-

Development duration: 5 months.

Estimated budget: \$75000.
