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## SRS for Stock Maintenance system.

### 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 & maintains supplier records.
- 1.3 Overview: SMS will streamline inventory management for warehouses, shops & enterprises.
2. General Description: Supports store managers staff and suppliers by maintaining stock records, purchase orders & consumption reports.

### 3. Functional Requirements:

- Stock Management: Add, update & delete stock items.
- Inventory Tracking: Track stock in/out with dates.
- Low stock alerts: Notify users of critical stock levels.
- Reports: Generate purchase, consumption & balance stock response.

### 4. Interface Requirements:

UI: Intuitive dashboard for stock visualization.

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Integration: Barcode Scanner integration

5. Performance Requirements:

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

6. Design Constraints: Relational Database, Backend can be Java / Spring Boot.

7. Non-Functional Requirements:

- Security: Access control for managers & staff.
- Reliability: Backup & recovery system
- Scalability: Support for multi-warehouse operations
- Usability: easy to operate with minimal training.

8. Preliminary schedule & Budget: Development duration is 5 months & Estimated Budget: \$15000