

Reliability: 99.9% uptime  
Scalability: Expandable for large universities  
libraries

Portability: Accessible via web & mobile

8. Preliminary Schedule & Budget  
Development duration: 4 months  
Estimated budget: \$ 50,000

#### 4) SRS for Stock Maintenance System (sms)

##### 1. Introduction

1.1 Purpose: To define the requirements of an automated stock | inventory management system.

1.2 Scope: 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 input with dates.

Low-Stock Alerts: Notify users of critical stock levels.

Reports: Generate purchase, consumption and balance stock reports,

4. Interfacing Requirements  
UI: Intuitive dashboard for stock visualization.

Integration: Barcode scanner integration.

5. Performance Requirements: Handle 800 concurrent users. Response time < 3 seconds. Real-time update of stock levels.

6. Design Constraints: Relational DB (MySQL / PostgreSQL) | Java / Spring Boot or Node.js

##### 7. Non-Functional Requirements

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

8. Preliminary Schedule & Budget  
Development duration: 5 months  
Estimated budget: \$ 75,000