

LAB 4 : SRS Document for Stock Maintenance System

1. Introduction

1.1 Purpose of this Document

The purpose of this document is to outline the requirements for a Stock Maintenance System, which will automate inventory tracking and stock control for organisations.

1.2 Scope

The system will manage product information, track stock levels, generate alerts for low stock, and provide detailed inventory reports.

1.3 Overview

The Stock Maintenance System will streamline stock-related operations such as purchases, sales and warehouse tracking.

2 General Description

The system will serve as a centralised solution for managing inventory data, stock levels, supplier information and order processing.

3. Functional Requirements

3.1 Inventory Management

- Add, update and delete stock items
- Track stock quantity in real-time

3.2 Supplier Management

- Maintain supplier details
- Link suppliers with products for easy ordering

3.3 Alerts and Notifications

- Generate alerts for low stock levels
- Notify managers about expiry dates and reorder needs

3.4 Reporting

- Generate sales, purchase and stock reports

4. Interface Requirements

- User friendly interface for managers and staff
- Accessible via desktops and mobile phones
- Integration with barcode scanners and POS systems

5. Performance Requirements

- Handle 10,000 stock items with quick search and update
- Support 200 concurrent users
- Maintain high accuracy of stock data

6 Design Constraints

- Must work with standard business hardware
- Database: MySQL or Oracle
- Should comply with accounting software integration if needed

7 Non-functional Attributes

- Security: Protect sensitive inventory and sales data
- Reliability: Ensure zero data loss during transactions
- Scalability: Handle growth in product lines and sales volume
- Compatibility: Support integration with ERP systems.

8 Preliminary Schedule and Budget

Development is estimated to take 5 months with a budget of \$80,000 covering design, coding and development.