

Stock Maintenance System

1. Introduction

1.1. Purpose of this document: This document is being used to define the requirements of a stock maintenance system

1.2. Scope of this document: This document defines the overall maintenance of stock system that includes managing inventory levels, tracking stock movement and generating reports

1.3. Overview: This system will provide real time stock updates, order generation and detailed report of stock movement and availability.

2. General Description

The stock maintenance system will provide real time stock update, alert users when stock falls below defined threshold and generate purchase orders automatically.

3. Functional Requirements

Stock Management: System will track incoming and outgoing stock and update inventory in real time.

Stock Alerts: automatic alerts will be sent if stock falls below a certain threshold

Purchase order: automated purchase orders will be generated

Reporting: daily, weekly and monthly reports will be generated on stock levels, sales and inventory

4. Interface Requirements

User Interface: web-based user interface to allow access using web browser

System Interface: centralised database to store stock data and purchase orders.

5. Performance Requirements

- system should process stock updates in 5 seconds
- system should support 100 concurrent users
- system should generate stock report within 15 seconds

6. Design Constraints

- system will use MySQL for database
- should be compatible with web browsers such as Firefox, Safari and Chrome
- should follow security protocols to protect sensitive data.

7. Non-Functional Attributes

Security: role-based access control to ensure only authorised users can modify stock data

Scalability: should be able to accommodate more users and higher transaction as business grows

Portability: system should be portable across different operating systems.