

STOCK MANAGEMENT SYSTEM

Stock Maintenance System

1. Introduction:

1.1. Purpose of this document:

This document outlines the requirements for the development of stock maintenance system. This will help companies to maintain stocks and budget.

1.2. Scope of the document:

The stock management system will allow business to monitor and control stock quantities, track items movements and generate reports. This system reduces manual error and enhances the visibility of inventory levels.

1.3. Overview:

The system is designed to handle inventory operations, including adding, updating and deleting stock items. It will maintain a real-time view of stock levels, manage orders, and provide through reports.

2. General Description:

The Stock Management System provides functionality for tracking items in stock managing, supplier details, and recording transactions such as stock purchases and sales.

3. Functional Requirements:

- **Inventory Tracking:** Track the real-time quantity of stock items, including available, reserved and damaged stock.
- **Stock update:** Add, modify or remove items from inventory.
- **Supplier Management:** Manage supplier details and orders, ensuring proper tracking of incoming stock.
- **Generate** Track orders placed with suppliers and update stock upon receipt of goods.

4. Interface Requirement:

- User Interface: A web-based interface for warehouse and store managers to view, add and manage stock.
- Database Interface: A connection to the database to store and retrieve stock data, supplier information and transaction history.

5. Performance Requirement:

- The system should be able to update stock levels in real time with a maximum delay of 1 sec.
- It should handle up to 10 000 stock transactions daily without performance degradation.

6. Design Constraints:

- The system will be developed using SQL based database.
- Must be compatible with modern web browser.

7. Non-functional Requirements:

- Security: Implement role-based access control to restrict unauthorized users from modifying stock levels or orders.
- Reliability: It should be reliable with minimal downtime for maintenance.

Schedule and Budget:

- The entire project may take about 6 to 8 months.

Budget:

The total estimated budget is around \$55 000

- Requirement specification: \$8 000
- Design phase: \$20 000
- Development phase: \$12 000
- Deployment and maintenance: \$5 000
- Testing: \$10 000

STOCK MAINTENEANCE SYSTEM - CLASS DIAGRAM

