Stock Maintenance System

Problem Statement

Traditional stock management methods are manual and prone to errors, leading to inefficiencies. The Stock Maintenance System automates stock entry, tracking, updating, ensuring accuracy and improved efficiency for business

1. Introduction

1.1 Purpose of this Document

Outlines the specifications for developing a Stock Maintenance System, serving as a guide for the development team

1.2 Scope

Aims to efficiently manage stock inventory, track stock levels, and eliminate stock related issues

1.3 Overview

- Includes functionalities for stock entry, tracking, movement and updating, ensuring accurate and timely stock management.

2 Record Requirements

- Allows users to add, edit and delete stock items from the inventory database, capturing essential details such as item name, quantity, price etc

- The system should provide real-time monitoring of stock levels, including available quantity, location and value with alerts for low stock levels or stock shortage.
- The system should track stock movement within the organization, including transfers between warehouses etc.

3. Functional Requirements:
   3.1 Stock Entry: Add, edit and delete stock items with essential details.
   3.2 Stock Tracking - Monitor real-time stock levels and receive alerts for low stock levels.
   3.3 Stock Movement - Track stock movement within the organization.
   3.4 Reports - Generate reports on stock valuation, turnover

4. Interface Requirements
   - User Interface
     The system interface for easy navigation and data entry.
   - System Interfaces: Integration with barcode scanners and external systems for data exchange.

5. Performance Requirements
   Response time
   Quick response time for stock related queries and transactions.
   Scalability
   Ability to handle large volumes of stock items and transactions.

Design Constraints

Platform Compatibility: Compatibility with various platforms and web browsers

Optimization for desktop and mobile devices

7. Non-Functional Attributes

Security: Implementation of secure coding and encryption mechanisms

Reliability - Reliable backup and recovery mechanisms

Performance - Efficient algorithms to handle concurrent users and large datasets

8. Resources, Schedule & Budget

- Will take 6 months with a budget of $50,000