

Stock Maintenance System

1. Introduction

1.1 Problem Statement

The stock maintenance system is an essential software that automates the management of inventory operations, including tracking stock availability, purchase orders and sales orders. This can be resolved by developing a software system that can automate the processes and improve overall efficiency.

1.2 Scope:

This document outlines the requirements for the development of a desktop based Stock Maintenance System to automate stock tracking, purchase orders and sales orders.

1.3 Overview:

The Stock maintenance system will be designed to be user friendly, fast and scalable. It will be developed using Java with an RDBMS and will ensure security through encryption.

2. General Description

The Stock maintenance system will be designed to be user friendly, fast and a desktop-based application accessible to inventory management staff with a valid login. The system will provide features such as stock tracking, purchase orders, sales orders.

3) Functional Requirements:

The following functional requirements will be present:

- i) Stock Tracking: The system should allow inventory management staff to track stock availability, including location, quantity and status.
- ii) Buying and Selling Orders - The system should allow staff to generate purchase and sales orders including tracking the order's status and delivery.
- iii) User Management - It should allow staff to manage user accounts.

iv) Interface Requirements:

The system should have a user-friendly interface for the inventory management staff. The interface should allow staff to manage stock, generate orders and track availability. It should also allow staff to manage user accounts.

5) Performance Requirements

The system should be fast, responsive and scalable to accommodate a large number of stock items. The system should be secure with user authentication and authorization with data encryption.

6) Design Constraints

It should be developed on a desktop based platform using Java with a relational database management system.

7) Non-Functional Attributes

The system should be user friendly, reliable and ensure the security of the data.

8) Preliminary Schedule and Budget

The development of the system is expected to take approximately 4 months with a budget of 30,000.