3. Stock Maintenance System

Problem Statement

To design a simple stock maintenance system that minimizes the interaction between the user and a physical ledger to maintain stocks. This system aims at moving the entire system online for more robust and easier use of the system.

Software Requirement Specification Purpose

The purpose of this document is to describe the requirements to develop the Stock Maintenance System. It contains description of the features required to address the process of stock maintenance. It is also a description of other requirements and factors needed to provide a convenient system.

Scope

This system will be a web-based system that will cater to the needs of a stock maintenance process. This system promises to make the process as convenient as possible. The benefit of this system is that it looks forward to providing better efficiency than most other similar systems.

Requirements

1. Functional Requirements

    a) It should be able to track products.
    b) It should be able to update stock details.
    c) It should be able to generate stock reports.

2. Non-functional Requirements

    a) The database storing the details must be backed-up and secure.
    b) The system should be easy to handle.
    c) The system should be very fast.

3. User Requirements

    a) Stock details must be displayed.

b) Product details must be displayed.
c) Vendor details must be displayed.

Class Model Details:

Person Class: This generalized class contains the details of the person.

Manager Class: This class models a manager and has operations such as adding, updating and removing vendors.

Vendor Class: This class models a vendor.

Product Class: This class models a product and contains product details.

Report Class: This class contains the report details such as the number of items available, vendor names, quantity sold, the status of the products which is generated by the manager. It has operations to generate a report.

Customer Class: This class contains the customer details like the order placed, quantity ordered, etc.

Stock Class: This class models a stock.

Order Class: This is an association class between Customer and Product classes.