Stock Maintenance System

Problem Statement

The Stock Maintenance System is a software application designed to manage inventory and streamline the process of tracking stock items for a business. The system will provide an easy-to-use interface for managing inventory, tracking sales, and analyzing stock levels. The primary goal of the system is to improve the efficiency of stock management by automating manual tasks such as inventory tracking, sales reporting, and purchase order management. The system will also provide real-time data access to the user, enabling them to monitor stock levels, track sales, and make informed decisions. Additionally, the system will be scalable, secure, and easy to use for users with varying levels of technical proficiency. The system will be able to integrate with other software applications such as accounting and billing systems. Overall, the Stock Maintenance System aims to optimize stock management processes, reduce costs, and improve profitability for the business.

Software Requirement Specification(SRS)

1.Introduction:

The software application that we will develop is a stock maintenance system designed to automate and manage inventory and stock levels effectively. The system will be developed using a programming language of the client's choice and deployed on a local server. The system will have a user-friendly interface and will be accessible through desktops or mobile devices.

2.General Description:

The stock maintenance system will be designed to enable inventory managers to manage inventory efficiently, such as tracking stock levels, managing purchase orders, and generating reports. The system will allow managers to track stock levels in

real-time, automate reordering, and manage the flow of goods into and out of the warehouse.

3.Functional Requirements:

3.1 Inventory Management:

- The system should allow inventory managers to add, edit, and delete inventory items.
- The system should provide the ability to manage inventory information, such as item name, description, stock level, and price.

3.2 Purchase Order Management:

- The system should allow inventory managers to create and manage purchase orders.
- The system should provide automated reordering functionality, which will notify the manager when stock levels fall below a set threshold.

3.3 Warehouse Management:

- The system should provide the ability to track the flow of goods into and out of the warehouse.
- The system should allow inventory managers to track stock levels in real-time and generate reports on inventory movements.

3.4 Reporting:

- The system should allow inventory managers to generate reports on inventory levels, reorder quantities, and warehouse movements.

4.Interface Requirements:

- The user interface should be designed to be intuitive and user-friendly.
- The interface should have different sections for different functionalities, such as inventory management, purchase order management, and warehouse management.

5.Performance Requirements:

- The system should be able to handle multiple transactions simultaneously.
- The system response time should be less than 2 seconds.

6.Design Constraints:

- The system will be developed using a programming language of the client's choice.
- The system will be deployed on a local server, and the front-end will be developed using HTML, CSS, and JavaScript.
- The system will use a MySQL or PostgreSQL database to store data.

7.Non-Functional Attributes:

7.1. Security:

- The system should have user authentication and authorization to ensure that only authorized users can access the system.

7.2. Usability:

- The system should provide an easy-to-use interface that allows for efficient inventory management.
- The system should provide online help and documentation to assist users.

7.3. Reliability:

- The system should have backup and restore capabilities to ensure data availability in case of system failure or data loss.

8.Preliminary Schedule and Budget:

- The development of the stock maintenance system is expected to take approximately 4 months.
- The estimated budget for the project is Rs.50,000, including development costs, hardware, and software.