

Stock Maintenance System

1. Introduction

1.1 Purpose of this document

The purpose of this document is to describe the requirements and specifications of the stock management system.

1.2 Scope of this document

This document defines the working of a stock management system that will track, manage and update stock levels in warehouses or shops. It will help reduce material errors.

1.3 Overview

The stock management system is designed to manage inventory in real-time. It will allow staff to add new stock, update quantities.

2. General Description

The system will be useful for shopkeepers, warehouse managers, and business owners. It will replace manual stock registers.

with an automated database, improving accuracy and saving time.

3. Functional Requirements

3.1 Stock Entry & update

> add new item with details.

> update stock quantities after Sales or purchase

3.2 Stock monitoring

> Show current stock levels

> generate alerts when stock goes below the minimum threshold

3.3 Sales and purchase records

> Records sales transactions & update stock

> Maintain purchase history from suppliers.

3.4 Reports

> generate daily/weekly/monthly stock reports

> provide sales v/s Purchase Analysis

3.5 User management

> diff access rights for admin, staff and managers

4. Interface Requirements

4.1 User Interface

- > easy-to-use dashboard for stock overview
- > support for both desktop & mobile

4.2 Integration Interface

- > barcode scanners for fast entry
- > Point of Sale Systems

5. Performance Requirements

- > system should update stock records within 2-sec
- > handle atleast 1000 stock items and 500 users at a time.

6. Design Constraints

- > Should run on standard PCs, barcode scanners
- > Database should be relational.

7. Non-functional Requirements

- > Security - user authentication to avoid unauthorized access
- > Reliability - system should not lose data even if power failure occurs.
- > Scalability - capable of expanding to multiple branch

> data integrity - maintain consistency of stock data across all models.

8. Preliminary Schedule & Budget

The development of this system is estimated to take 6 months with a budget of \$90,000 to \$110,000. This includes planning, development, testing and deployment.