

4) Stock Maintenance System

Problem Statement

Create a stock maintenance system for a small business that efficiently manages inventory. The system should track stock levels, handle purchase & sales transactions, generate reports, & manage users. Emphasize usability, scalability & adherence to software engineering principles.

1. Introduction:

1.1 Purpose

This document serves as a guide, requirements, and specification for the development of stock maintenance system.

1.2 Scope

The document defines overall working and functionality, performance, interface, requirements & non-functional attributes of stock maintenance system.

1.3 Overview

The stock maintenance system will efficiently manage inventory & track stock levels, analysis & reporting.

2. General Description

The stock maintenance system is a software solution designed to automate inventory management process for business.

3. Functional Requirements

- Stock Tracking
- Inventory Management
- Track Stock Levels
- Reporting & Analytics

4. Interface Requirements

- User interface
- Database interface
- Integration interface

5. Performance Requirements

- Response time should be minimum
- Real time updates
- Scalability: Ability to handle large volume of inventory transaction
- Data Integrity: Preserving accuracy of inventory data

6. Design Constraints

- System should be compatible with existing & various software & hardware
- Robust security measures to protect inventory data from unauthorized access & data breaches

7. Non-functional Attributes

- Security
- Reliability
- Scalability
- Maintainability

8. Preliminary Schedule & Budget

- Estimated time: 10 months
- Estimated budget: ₹8,00,000