4) Stock Maintenance System

Problem Statement:

create a stock maintenance system for a retail business that effectively manages inventory. The system should track stock levels, handle product information, process 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-function, attributes of stock maintenance system

1.3 Overview

The stock maintenance system will efficiently manage inventory & track stock levels, analytics & 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 a large volume of inventory transaction.
   - Data Integrity : Ensuring accuracy of inventory data

6. Design Constraints
   - System should be compitable with existing & various software & hardware
   → Robust security measures to protect inventory data from unauthorized acces & data breaches.

7. Non - functional Attributes
   - Security
   - Portability
   - Scalability
   - Reliability

8. Preliminary Schedule & Budget
   - Estimated time : 10 months
   - Estimated budget : ₹ 8,00,000