IV Stock Maintenance System

Problem statement:

Manual stock management often leads to errors, shortages & overstocking. An automated system is required to track update & maintain inventory accurately.

1) Introduction

1.1) purpose
To create stock Maintenance system that tracks inventory levels, manages, update & generate reports.

1.2) Scope

- Add / update / delete stock items
- Monitor stock levels & alerts
- Generate Sale & purchase reports
- Supplier & customers record management

1.3) Overview
The System provide real-time inventory details, ensuring smooth supply chain & reduced losses.

2) General Description

The system is a web-based application that helps businesses maintain product records, monitor stock availability, & prevent shortages or excess inventory

3) User classes & characteristics

- Admin: Full control over stock & users
- Staff: Manage daily stock operations
- Manager: Analyze reports & track performance

4) Functional Requirements

- Add / remove / update stock details
- Automatic alerts for low stock
- Sales & purchase tracking
- Supplier & customer record management
- Generate inventory reports

5) Interface Requirements

- Web based dashboard
- Mobile - friendly Access
- Role - based login system

6) Performance Requirement

- Quick response time (< 2 secs)
- Support 300+ users simultaneously
- Handle large database with thousands of products

7) Design Constraints

- Works on standard browsers
- Database : MySQL
- Language : Java / Python

8) Non-functional Requirement

- Security : User authentication & data encryption
- Usability : Easy-to-use interface for staff
- Reliability : 24/7 system availability
- Scalability : Support for multiple warehouses / branches

9) Schedule & Budget

- Schedule : 3-4 months
- Budget : 3-4 lakhs approx