Q Generate SRS document for Stock Maintenance System

1. Introduction

1.1 Purpose of this document

→ This document outlines software requirements for the system. It serves as a guide for developers, stakeholders and also end users, detailing the system's functionalities performance criteria and design constraints

1.2 Scope of this document

→ The document covers objectives, functionalities expected outcomes of stock maintenance system. It includes an estimation of developments cost and time required, providing valuable insights for customer

1.3 Overview

→ The system is designed to automate inventory tracking and managing stock levels and facilitates order processing. It ensures real time data accuracy, reduces manual efforts, supports stock efficient management practices

2. General Description

→ The system aims to assist users in

maintaing optimal stock levels, preventing over stocking or stock outs, users will benefit from automated alerts, detailed inventory reports and user friendly interface. The primary users include inventory managers, warehouse staff and procurement teams

3. Functional Requirements
→ Real time inventory tracking and updates
→ Automated reorder alerts when stock level fall below predefined threshold
→ Detailed reporting on stock levels, reorder history and stock movements
→ User authentication and role based aleat controls
→ Integration with existing ERP system for seamless data flow
→ Search and filter capabilities for quick access to stock information

4. Interface Requirements
→ A user friendly graphical interface for easy navigation and operation
→ APIs for integration with external systems
→ Data import / export capabilities in standard formats
→ Notification interfaces for email and SMS alerts

5. Performance Requirements
→ System should handle upto 10000 stock entries
→ Real time processing with response time within 2 seconds for user actions
→ Minimal memory usage to ensure efficient performance
→ Error rate should be very less.

6. Design Constraints
→ The system must be compatible with all devices
→ MySQL can be used for database
→ Compliance with industry standards for data security and privacy
→ Implementation of rest full app for external integration

7. Non Functional Attributes
→ Security should be provided for data login and storage
→ Should accessible via browsers and mobile
→ It should be reliable
→ Design must be modular for easy updates and changes
→ It should be scalable

8. Preliminary Schedule and Budget
→ Estimated schedule for the project is
- Requirements gathering - (2 weeks)
- System design - (3 weeks)
- Development - (8 weeks)

- Testing - (4 weeks)
- Deployment - (2 weeks)

Total estimated weeks - 19 weeks

→ Estimated budget for the project is
- Requirement documentation - ₹ 50000
- Design and tools - ₹ 150000
- Development - ₹ 400000
- Testing - ₹ 50000

Total estimated budget - ₹ 750000