→ SRS for stock Maintainance.

1. Introduction:

1.1 Purpose: This document outlines the requirements for the stock maintainance system to assist stakeholders in understanding its objectives and functionalities.

1.2 Scope: The SMS will facilitate the management of stock levels, tracking inventory, and generating to reports. It includes preliminary estimates of development costs and timelines.

1.3 Overview: The stock maintainu system will automate the inventory management, for efficient trackins of stock level, reorder notifications, and reporting on stock movements.

2. General description:

The SMS will serve multiple user roles, including invetory managers and administrators. Key

1) Inventory Tracking: Monitoring stock levels in real-time
2) Reorder Alerts: Notifications for low stock items.
3) Supplier management: Keeping records of supplier information.
4) Reporting: generating reports on stock levels, movements, and trends.

The SRS will essential for bussinesses to maintain optimal stock levels and prevent shortages or overstock situations

3. Functional requirements:

The SRS will include:

1) User Registration and login
2) Adding and deleting Inventory items
3) Stock level monitoring and Alerts
4) Supplier Information management
5) Generation of stock movement Reports
6) Search functionality for Inventory items

4. Interface Requirements:

1) User Interface: A web-based interface for end-users
2) API interface: RESTful APIs for integration with other systems.
3) Database Interface: SQL interface for the data management and interval.

5. Performance Requirements:

The SMS will communicate through:

1) User interface: the SMS should meet the following performance criteria:

1) Response time: the system should respond to user actions within 2 seconds
2) Concurrent users: support up to 100 concurrent users without performance degradation
3) Data storage: Ability to handle up to 10000 inventory items and 1000 suppliers
4) Error Rate: Maximum allowable error rate of 1% for transactions.

6. Design Constraints:

1) Use of specific database management system
2) Compliance with relevant data protection regulations
3) Compatibility with existing business system

7. Non-functional attributes:

1) Security: Implementation of user authentication and data encryption.
2) Portability: The system should be accesible from various devices
3) Reliability: 99.9% of up time and regular backup procedures.
4) Scalability: ability to accomodate more users & inventory items as the business grows

8. Preliminary Schedule & Budget

The estimated project duration is 4 seconds, with a budget of approximately $ 40,000.

Budget

1) Development costs: $ 25000
2) Testing: $ 8000
3) Deployment: $ 4000
4) Training & support: $ 3000

Schedule:

- Requirement analysis & Design: 2 weeks
- Development: 6 weeks
- Testing & quality assurance: 2 weeks
- Deployment & user training: 1 week