Stock Maintance System

1. Introduction:

- **Purpose:** The stock maintenance System is automate the process of managing stock levels, tracking inventory and generating reports on stock movements.

- **Scope:** The stock maintance System will be used by warehouse, retail stores, manufactures and businesses that handle physical goods. It will track stock levels update quantities after purchases & sales.

- **Overview:** The stock maintenance system is designed to monitor the inventory of goods, manage stock replenishment, & track movement of stock b/w different locations. It will also support functions such as order management, supplier info tracking, & sales analysis.

2. General Description:

- Stock Management
- Inventory Tracking
- Reordering Alerts
- Supplier Management
- Reporting and Analysis
- Adult Trail.

3. Functional Requirement:

- Stock Management
- Inventory Tracking
- Reordering Alerts
- Supplier Management

- Reporting & Analysis
- Audit Trail.

4. Interface Requirements:

- User interface
- Hardware Interface
- Software interface

5. Performace Requirements:
- The system should handle inventory managment for upto 10000 unique items
- Response time for stock queries and updates should be less than 2 sec.
- The system must support atleast 50 concurrent user with minimal delays.

6. Design Constraints:

- Scalability
- Technology
- Platform
- Security.

7. Non-functional requirements:

- Usability
- Reliability
- Maintainability
- Data Integrity
- Security.

8. Preliminary Schedule:

- Requirements Gathering & Analysis (2 weeks)
- System Design (2-3 weeks)
- Database Setup & Development (2 weeks)
- User Interface Development (3 weeks)
- Integration & Testing (3 weeks)
- User Training & Development (2 weeks)
- Post-Deployment support & Maintance.

9. Preliminary Budget:

- Software Development: $20000
- Hardware: $4000
- Testing & Quality Assurance: $3000
- Training: $2500
- Maintenance: $3000
- Total: $32000