Stock Management System

1. Introduction

Purpose: ~~Making stock market for available for~~

To develop a system that manages and monitors stock level.

Scope - Aimed at minimizing over-stocking and shortage. This will handle stock inventory.

Overview: This provides a centralized view of stock and generate a table of purchases automatically.

2. General description

2.1 Function: System will manage inventory and manage stock usage, support supplier communication.

2.2 Features:

- Real time tracking of stock with notification
- Graphical reporting of stock level.
- Supplier management.

2.3 Benefit:

- No manually storing stock details
- Quicker report and efficient reordering process.
- Improved accuracy in managing.

3 Functional Requirement:

3.1 Stock monotoring : Recording every stock movement.

3.2 Automatid Reordering:

3.3 Supplier Management

3.4 Reporting : Monthly / weekly generating reports.

4 Interface Requirement :-

4.1 User-interface : Dashboard showing current inventory status, supplier list.

4.2 API Integration: Integration with 3rd party accounting for financial tracking.

4.3 Database Interface: NoSQL database for high-speed querying.

5 Performance Requirement :

5.1 Update Frequency : Updates in inventory should reflect within 1 sec.

5.2 Capacity : Able to support upto 2000 product items.

5.3 Error Handling: Minimal error rate with self recovery.

6 Design constraints :

6.1 Cloud Support : Should be deployable on AWS.

6.2 Integration Limits : Integrn should be limited to well documented.

7 Non Functional Attributes:

7.1 Scalability: System should support the addition of multiple warehouse location.

7.2 Security : Ensure data integrity.

7.3 Reliability: Synchronization between devices and platforms.

8 Preliminary Schedule and Budget.

8.1 Time : 6 months of completion including testing

8.2 Budget : Development : ₹10,000
Personnel cost : ₹10,000
Miscellaneous cost : ₹4,000
Total cost : ₹25,000