

6) Stock Maintenance system:

1. Introduction:

1.1 Purpose of the document

The purpose of this document is to specify the requirements of the stock Maintenance system.

1.2 Scope of the document: This document provides detailed description of the requirements of the stock maintenance system. It also includes estimated cost and ~~time~~ development time.

1.3 Overview: It provides efficient platform to manage inventory in real-time, allowing businesses to maintain optimum stock level.

2. General Description:

It is a web-based application to manage stock, providing an efficient way to track inventory levels, handle stock recording and prevent stockouts.

3. Functional Requirements

- **Stock Tracking:** Real-time tracking of stock levels across different locations.
- **Inventory update:** automatically update stock levels based on sales, purchases and stock adjustments.
- **Stock alert:** Send notifications when stock levels fall below a predefined schedule.

4. Interface Requirement:

- **User interface:** The system will offer a ~~box~~ web-based interface accessible by administrators and store managers.

- API Integration : The system should be able to integrate with existing enterprise resource planning (ERP)

5. Performance Requirements

- Website should ^{be able to} handle large number of users.
- Response time must be short.

6. Design Constraints

- Designed with html/css, Javascript
- ~~User~~ Website must support mysql or mongoDB for database storage.

7. Non-Functional Attributes

- Security : ensuring data integrity and confidentiality
- Reliability : time to time updation.
- Scalability : scale to support multiple warehouses and store locations.

8. Preliminary Schedule and Budget

- Time required : 6 months.
- Estimated Budget : \$100,000
 - Requirement analysis - \$20,000
 - Development and integration - \$30,000
 - Verification and validation - \$35,000
 - Evolution and maintenance - \$15,000

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