

## D. Stock Maintenance System

### 1. Introduction

#### 1.1 Purpose of Document.

Provide automation and streamline inventory management processes. Track stock levels in real-time and provide confidence levels for stock replenishment.

#### 1.2 Scope

The system will manage inventory for a business includes adding, deleting, tracking stock items, generating stock alerts and produce reports. It helps manages sales teams, finance team by providing accurate and real-time data.

#### 1.3 Overview.

Application that can be integrated with existing software to provide interactive interface for semi-skilled personnel.

### 2. General Description:

The stock maintenance system is a centralized solution accessible by multiple departments.

It tracks stock levels, supports inventory disposal techniques (FIFO) and provides accurate order quantity to minimize wastage. System also alarms managers on reorder level taking into account the buffer required for restock.

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### 3. Functional Requirements :-

- System must allow authorized users to add, edit, delete stock items with attributes like SKU name, ID, category etc.
- System must maintain and generate monthly reports on stock movements, including purchase, sales and profits.
- System must generate and alert managers when stock levels reach reorder threshold and estimate demand required to place orders.

### 4. Interface Requirements :-

System provides web-based application with easy-to-use UI accessible to proprietary software. Dashboard views to display inventory levels, upcoming orders, edit details, tables, visual techniques to get inferences from data.

System will connect to barcode scanners and printers to generate labels and manage stock entries.

System must integrate with existing sales and finance systems using RESTful API's for seamless data sharing and bring all components under one umbrella.

### 5. Performance Requirements:

System must support up to 5000 SKU's without limit to SKU's parameters or attributes.

Average response time for stock queries must be less than 3 seconds.

System must update stock details on same day.

## 6. Design Constraints :

System must be supporting different access levels to ensure data integrity and security. This system must comply with policies and fundamental rules.

## 7. Non-Functional Requirements :

## - Scalability.

System must be able to accommodate multiple warehouses and future expansion of users.

## - Usability

It must have intuitive user interface, along with navigation aids and also help with documentation.

## 8. Preliminary Schedule and Budget.

Total duration: 20 weeks

## Budget

Software development: \$ 30,000

Hardware: \$ 15,000

licenses

\$ 8,000

Testing

\$ 10,000

management

\$ 5,000

Documentation

\$ 5,000

Total

\$ 70,000

#### 4. Stock Maintenance system

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