(2) Stock maintenance system

1. Introduction

1.1 Purpose of this Document:

This document is designed to outline the requirements for the construction of a system for the maintenance of stocks.

1.2 Scope of this document

This document is designed to give a proper understanding about the requirements agreed upon by the client and the organizer -on. It will help the client to understand that their requirements are met and add more if they feel like it. It will help the developers understand what they should work towards.

1.3 Overview

The stock maintenance system will automate the tasks of inventory management, including stock updates, low stock alerts, and reorder processing. It is designed to be user friendly ensuring that users with minimal technical knowledge can manage stocks efficiently. The system will benefit businesses by maintaining accurate stock records, optimizing inventory levels, and enhancing decision-making.

2. General Description

The stock maintenance system aims to provide businesses with an automated platform for tracking stock levels, managing suppliers and generating reports on stock activities. Users will be able to input new stock, update current stock

levels and track stock movements. Key features include automated stock replenishment notifications and support for multiple warehouse locations. This system will benefit companies that rely on accurate stock tracking for daily operations.

3. Functional Requirements

* Users can add new stock items, update existing stock and remove obsolete items.
* Stock level alerts: The system will automatically notify the user when stock level drops below the defined threshold.
* The system will store supplier details and link them to corresponding stock items for easy re-ordering.
* Users can generate stock reports, including stock history, stock levels and valuation reports.

4. Interface Requirements

* User Interface: The system will have a web-based graphical user interface for easy navigation and it will support multiple devices.
* Data interfaces: The system will communicate with external systems such as accounting software via API or CSV import and exports.

5. Performance Requirements

* Response Time: The system will update stock information in real-time, with a response time of no more than 2 seconds for standard operations.

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* Uptime: The system will maintain nearly 100% uptime to support critical business operations.

6. Design Constraints

* The system must use a relational database for storing stock data (eg. MySQL or PostgreSQL).
* The system should be compatible with barcode readers for faster input.
* The system must be accessible on both desktop and mobile devices

7. Non-functional Attributes

* The system will use a role-based access control and secure login.
* The system must ensure that stock data is accurate and consistently available for business operations.
* The system will be designed to scale with the increasing stock items and users.

8. Preliminary Schedule and Budget

* Development duration: The system is estimated to take 6 months to develop.
* Budget: The estimated budget for development is ₹ 10,00,000.

SRS → ₹ 1,30,000
Development → ₹ 4,70,000
Testing → ₹ 2,00,000
maintenance → ₹ 2,00,000

Classes

* Users → staff, foreman, owner
* Interface
* Organization, storehouses, etc.