(B4) Stock maintaining system

Problem Statement: Design and implement an SRS document for a stock maintenance System.

1. Introduction

1.1 Purpose of Document

This document specify the requirements for the stock management system(SMS) feature, and constraints to help organize stocks, manage, and update inventory levels efficiently.

1.2 Scope of Document:

The SMS will automate stock records, real time updates of quantities, generation of records attend, and reporting of stock usage. It will allow present stocks and ensure transparency in stock controls.

1.3 Overview:

The system will

- record stock records.
- track available quantities of each item.
- Generate alerts for low stock levels
- provides sales and consumption reports.
- support use roles.

2) General Description

The SMS functions as a centralised inventory system it enables to keep accurate stocks records.

use includes

- Admin: full control over system, use management
- Stock Manager: Add/Update stock, set record level & reports
- Staff: view stock, request items, update usage.

3) Functional Requirements.

- Add, Edit, delete stock records
- Update stock levels upon purchase, sales on consumptions.
- Generate ~~supplies~~ automatic stock for low / reorder, stocks.
- Maintain supplies info
- promote daily, weekly and mo... stock.

4) Interface Requirements:

- User Interface: Web dashboard with lyric and role based
- Extend interface: Barcode / scanner, POS System Integration.
- API integration: REST APIs for integ... accounting.

5) performance Requirement :

* Handle 500 concurrent users.
* Support upto 1 million stock records
* Average response time < 3 seconds for queries and updates.

6) Design Constraints :

* Database must be relational
* must run on standard window / linux secure
* should comply accounting / inventory.

7) Non functional attributes.

* ~~Security~~
* Reliability
* usability
* maintainability

8) Preliminary Schedule and Budget

Schedule

Requirement Analysis : 1 week
System design : 2 weeks
Development : 6 weeks
Testing : 1 week
Deployment / testing - 1 week

Total ~ 12 weeks

Estimated Budget :

- 24 - 25 Lakh