



## b) SRS document for stock maintenance system

### 1. Introduction:

1.1 Purpose of the document: to specify the software requirements for a stock maintenance system, which helps manage and track inventory levels, orders, sales & deliveries.

1.2 Scope of the document: users can add, update, and remove stock items, track stock levels, generate reports & manage suppliers. The system supports notifications for low stock levels and facilitates order management.

1.3 Overview: this document provides detailed info about the requirements & general procedures for stock maintenance.

### 2. General description:

#### 2.1 Product perspective

- staff perspective: view details of stock items, including quantities, descriptions, prices & suppliers; generate & view reports on stock levels, sales and orders.

- management perspective: access analytical dashboards for inventory trends, low stock alerts and financial summaries; manage supplier details & performance.

#### 2.2 Product functions:

- add / update / delete stock items
- track stock levels & manage ordering
- generate reports
- manage suppliers & purchase orders
- receive notifications for low stock levels

#### 2.3 User characteristics:





- users include <sup>inventory</sup> staff, managers & suppliers
- staff must have basic computer skills to operate the system.

#### 2.4 General constraints:

- users must have appropriate permissions to add or modify stock.
- the system must operate within the organisation's existing IT infrastructure
- stock updates should occur in real-time to ensure data accuracy

#### 2.5 Assumptions & dependencies:

- users will input accurate stock information
- the system will rely on existing database infrastructure for data storage
- users will have internet access for online features if applicable.

### 3. Functional requirements:

- Stock management system: users can add new stock items including SKUs, descriptions & quantities; users can update existing stock details & remove stock items as necessary
- reporting system: generate reports on inventory levels, sales data & supplier info
- notification system: automated alerts for low stock levels & reorder reminders
- supplier management: add and manage supplier details, including contact info and pricing

### 4. Non functional requirements:

- Performance: the system should process stock

updates with 2 seconds

- scalability : capable of inventory details for at least 10,000 stock items
- Security
- Usability : intuitive UI

#### 5. Interface requirements:

- UI interface : be intuitive and easy to navigate
- API : enables external systems to interact with the stock maintenance system
- Database interface : responsible for interacting with underlying database to manage stock and related data.

#### 6. Performance requirements:

- response time should be within 2 seconds
- availability should be 99.9% of the time.
- should provide user-friendly error messages & recovery options
- all sensitive data needs to be encrypted in storage & transmission.

#### 7. Design constraints:

- database must be relational DBMS to maintain inventory data
- Should be build used microservices for modular functionality
- standard server hardware

#### 8. Preliminary schedule & budget: an estimate of 5 months is needed to complete the project





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which includes hiring staff / engineers , planning & designing the architecture , developing and testing the system . Also the required budget is 235 lakhs , ~~as~~