

## IV Stock Maintenance System.

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**Problem statement:** A Stock Maintenance System manages inventory operations, including stock tracking, ordering, replenishment, and reporting. It optimises stock levels, reduces wastages, improves supply chain efficiency, and supports data-driven decision-making for inventory management.

### 1. Introduction

1.1. Purpose of the document: To describe the requirements involved in developing stock maintenance system.

1.2. Scope of the document:

Describes the overall working and objectives of the SMS. This system will allow admin to manage and update stocks. Outlines the values provided to users and stakeholders, management of stock inventory.

1.3. Overview:

- \* The system is designed to facilitate the management of stock inventory for business.
- \* It provides functionalities for stock entry, stock tracking, stock movement, reporting, ensuring timely management of stock levels.

### 2. General description:

- \* The system facilitates the following functions like stock entry, tracking, reporting and movement and reporting.

### 3. Functional Requirements.

- \* Internet oriented, using an online server, it shall save product details, purchases details customer and supplier details.

### 4. Interface Requirements

- \* System interfaces: Barcode scanners, Stock entry and tracking compatibility with existing systems.

### 5. Performance Requirements

- \* Response time: Quick response for stock related queries (within 5 seconds), optimized downtime (within 9 seconds).
- \* Scalability to handle large volume of stock items to do transactions.

### 6. Design constraints

- \* platform compatibility with versions of different OS, web browsers compliance with industry standards for storage security.

### 7. Non-functional Attributes

- \* Security: Access control and encryption.
- \* Reliability: Reliable backup, recovery.
- \* performance: Handles concurrent users and large datasets.

### 8. Preliminary Budget:

- \* Estimated time for development: 4 months
- \* Estimated Budget: ₹4,00,000/-