

## IV Stock Maintenance System

**Problem statement:** A stock maintenance system manages inventory operations, including stock tracking, ordering, replenishment, and reporting. It optimizes stock levels, reduces wastage, 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 systems.

#### 1.2: Scope of the domain:

Describes the overall working and objectives of the SMS. This system will allow admin to manage and update stock outlines the values provided to users and stakeholders, management of stock ~~main~~ 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, trading, tracking, ~~§~~ movements 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 trading compatibility with existing systems.

### 5. Performance requirements:

- \* Quick response time for queries and minimal downtime.
- \* Scalability to handle large volumes of stocks 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
- \* Reliable backup and recovery.
- \* Performance: handles concurrent users and large datasets.

### 8. Preliminary Budget:

- \* Estimated time: 4 months
- \* Estimated budget: ₹ 4,00,000/-