

## Q. SRS document for Stock Maintenance System (SMS):-

### ① Introduction:

1.1 Purpose: This document describes the requirements for the Stock Maintenance System (SMS), a software solution for tracking inventory, managing orders, and monitoring stock levels in warehouse or retail outlets.

1.2 Scope: The SMS will automate inventory management, including stock entry, updates, order tracking, and low stock alerts. It will improve efficiency and reduce manual errors, catering to businesses of all sizes.

1.3 Overview: The system will enable users to manage stock efficiently through features like real-time stock updates, supplier management, order tracking & report generation.

### ② General Description:

The SMS is designed to provide real-time information on stock levels, orders and suppliers. It allows users to manage stock efficiently by providing a user-friendly interface to input, update and monitor stock data. Users can also generate reports to analyze stock trends and make informed decisions on ordering more products or managing supplier relations.

### ③ Functional Requirements:

#### 3.1 Stock Management:

- Add and update stock with product details.
- Track stock availability and generate low stock alerts.



### 3.2 Order & Supplier Management:

- Place, track and manage orders.
- Manage supplier information and track delivery performance.

### 3.3 Report Generation:

- Generate reports on stock usage, levels and supplier efficiency.

## 4. Interface Requirements:

### 4.1 User Interfaces:

- Login: Authentication for users.
- Stock Management: Manage stock details and availability.
- Order and Supplier Management: Track orders & manage suppliers.

## 5. Performance Requirements:

- The system should handle upto 10,000 transactions.
- Low stock alerts and updates must occur in real time.

## 6. Design Constraints:

- The system will use a relational database and be compatible with mobile devices.
- Secure communication protocols (eg. HTTPS) will ensure data protection.

## 7. Non-Functional Attributes:

- Security: Access control for authorized users.
- Scalability: Supports increased stock levels and users.
- Reliability: 99.9% uptime and fast response time for transactions.

## 8. Preliminary Schedule & Budget:

- Development Time: Estimated at 6 months.
- Budget: 6000000 approx for design, development & deployment.