(4) STOCK MAINTENANCE SYSTEM:

1. Introduction

1.1 Purpose - This outlines requirements for Stock Maintenance System (SMS). Its primary purpose is to provide comprehensive understanding of the functionalities constraints and expectations associated within System

1.2 Scope - It encompasses overall functionality of stock maintenance system detailing its objective, features and value. It aims for streamline inventory, minimize stock discrepancies and enhance reporting capabilities.

1.3 Overview - This system will support functionalities such as stock tracking, automated reordering and detailed reporting.

2. General Description
primary users will have basic computer skills and a foundational understanding of inventory management.

3. Functional Requirements:

1. Inventory Tracking - allow users to add, update & delete.
2. Reordering - system will automatically generate purchase orders when there is less stock.
3. Reporting - system shall provide customizable reports on stock levels, usage trends and reorder history.
4. User Management - system shall enable creation of user accounts
5. Barcode Scanning - system shall support barcode scanning.

4. Interface Requirements:

1. User Interface - web-based interface that is intuitive & user friendly.
2. Data Interface - existing accounting and ERP systems to synchronize stock data
3. communication protocols

5. Performance Requirements:-

1. Response time : system shall respond to user within 2 sec.
2. Data processing : system shall be capable of processing upto 1000 stock
3. Memory Usage & error Rate

6. Design Constraints:-

1. Database - utilize PostgreSQL
2. hardware limitations

(7) Non-Functional Attributes :

(1) Security - Secure authentication & data encryption

(2) Reliability - ensure 99.9% uptime during hours

(3) Scalability - handled increase in data Volume.

(4) portability - accessible to all devices.

(8) preliminary Schedule and Budget :

Total estimated Duration : 16 weeks

Total estimated Cost : ₹67,000