

# 4] SRS for Stock Maintenance System

## 1. Introduction

### 1.1) Purpose:

The purpose of this document is to outline the requirements for a Stock Maintenance System that helps businesses manage inventory levels, track stock movement and generate restocking alerts.

### 1.2) Scope:

The system will be used by store managers and warehouse personnel to ensure efficient inventory tracking and timely restocking. It will also generate reports to optimize SM.



### 1.3) Overview:

The Stock Maintenance System will have modules for inventory tracking, restock alerts, vendor management and reporting.

## 2 General Description

### 2.1) Product perspective:

The system will integrate with existing warehouse management systems to keep track of stock levels in real-time.

### 2.2) User characteristics:

Users will include warehouse staff, store managers and suppliers. The interface will be easy to use for Non-technical staff.

### 2.3) System constraints:

The system should be operational 24/7 and handle inventory across multiple locations.

## 3 Functional Requirements

- Inventory tracking by item, ~~store~~ and location.
- Restocking notifications when inventory falls below threshold levels.
- Stock movement logging.
- Vendor management for ordering and supply tracking.
- Reporting on stock levels, turnover, etc.

## 4 Interface Requirements

- Web-based interface for store managers.
- Integration for with barcode scanners for stock movement.
- API for integration with third-party warehouse.



## 5. Performance Requirements

- Must handle 10000 entries
- Must process stock movement transactions in under 2 seconds.

## 6. Design Constraints

- Must comply with the company's hardware infrastructure.
- Designed for easy integration with third party systems.

## 7. Non Functional Attributes

- Security: Ensure data security and restricted access to inventory data.
- Scalability: Capable of managing inventories for multi-location warehouses.
- Reliability: must be reliable to ensure consistent stock updates.

## 8. Preliminary Schedule and Budget

Overall time required: 7 months

Overall cost required: ₹1,50,000