

④ Software Requirement Specification for Stock maintenance System

1. Introduction

- Purpose: The purpose of this document is to outline the requirements for a stock maintenance system that helps businesses manage inventory levels, track item movement, and generate reordering.
- Slope: 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 stock management across multiple locations.
- Overview: The stock maintenance system will have modules for inventory tracking, restock alerts, vendor management, and reporting. It will be accessible through desktops.

2. General Descriptions

- Product perspective: The system will integrate with existing warehouse management systems to keep a record of stock levels and movements in real-time.
- User characteristics: Users will include warehouse staff, procurement, and

uphere. The interface will be easy to use for non-technical staff.

- System constraints: The system should be operational 24/7 and handle inventory across multiple locations.

3 Functional Requirements.

- Inventory tracking by items, SKU, and locations.
- Restocking notifications when inventory falls below threshold levels.
- Stock movement loggers.
- Vendor management for ordering and supply tracking.
- Reporting on stock levels, turnover, and shortages.

4. Interface Requirements.

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

5. Performance Requirements:

- must handle 10,000 SKU entries.
- must process stock movement

6. Design constraints.
- must comply with the company's hardware infrastructure.
 - designed for easy integration with third-party ERP Systems.

7. Non-functional attributes.

- Security: Ensure data security and restricted access to inventory data.
- Scalability: Capable of managing inventories for multi-locators warehouse.
- Reliability: 99.9% uptime to ensure consistent stock update.

8. Preliminary Schedule and Budget

- Development Timeline : 7 months
- Estimated Budget : \$150,000