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## Warehouse Stock Management

### 1) Introduction

#### 1.1 Purpose

Document outlines software requirements for warehouse stock management. Its purpose is to define functionalities for warehouse stock efficiently.

#### 1.2 Scope

Document covers all aspects of warehouse management from inventory tracking, taking orders & supplying stocks, transport etc.

### 2) General Description

Warehouse stock management is designed to handle operations like stock intake, storage, dispatch & receiving.  
\* Monitoring stock levels, Categorize stock based on type & location.

System increases efficiency & reduces human error

### 3) Functional Requirements

3.1 Inventory Management: Track stock levels of each type.

3.2 Receive Order: System allows customers to place orders

3.3 Check availability: Check whether the specified stock is present in inventory

3.4 Restocking alerts: When stock levels fall below predefined threshold, automated alerts to restock it.

### 4) Interface Requirements:

4.1 User Interface: System should have a graphical interface for staff to view stock levels.

4.2 API Integration: Integrate external API for supplier database to automate restocking processes.



4.3) Notification :- Integrated email or SMS alerts for low stock.

### 5) Performance Requirements

- 5.1) System should handle upto 500 users at the same time
- 5.2) Stock update and order processing should happen within 1 min
- 5.3) System should be able to handle warehouse upto 100,000 sq. ft.

### 6) Design Constraints

- 6.1. System should be compatible with existing warehouse hardware (barcode scanners, handheld devices)
- 6.2 It should follow security protocols to prevent unauthorised access to warehouse.
- 6.3 Integration with external suppliers must adhere to industry standard APIs.

### 7) Non-functional Req

- 7.1) Security : System should keep customer and order details private.
- 7.2) Reliability: Ensure 99.9% uptime to avoid disruption in warehouse operations.
- 7.3) Data Integrity: Ensures that stock levels and order information remains consistent & accurate.

### 8) Preliminary Schedule & Budget

Project is expected to take 3 months with a budget of \$2000.