

Warehouse Stock Maintenance

1) Introduction

1.1) Problem statement : It's purpose is to define functionalities for warehouse stock efficiently

1.2) Scope : warehouse management from inventory taking tracking, taking orders and supplying stocks, transport etc

2) General description : Monitoring stock levels, categories stock based on type and location

3) Functional requirements

3.1) Inventory management : Track stock levels of each type

3.2) Receive orders : System allows customers to place orders

3.3) Check availability : check whether the specified stocks is present in inventory

3.4) Restocking alerts : When stock level falls below predefined threshold, automated alerts to restock of

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

- 4.2) Notification: triggered email or sms alerts for low stock.

5) Performance Requirement

- 5.1) System should handle up to 500 users at the same time
- 5.2) Stock update and order processing should happen within 3 sec.
- 5.3) System should be able to handle warehouse up to 10 000 items.

6) Design Constraints

- 6.1) System should be compatible with existing warehouse
- 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 Requirements

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

8) Preliminary Schedule and Budget

Project is expected to take 3 months with a budget of \$10,000