② stock maintainance

① Introduction

1.1) Purpose: Its purpose it to define functionilities for warehouse stock efficiently

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

1.3 General description: monitering stock levels, catagories stocks based on type & location.

③ Functional Requirements:

3.1) Inventory Manggement:- Track stock levels of each type.

3.2) Recieve Orders: system allows customers to place orders.

3.3) Supplier Maragement: User can add, update, delete supplier information including contact details and order history.

- ~~Reporting~~

3.4) Restoring alerts :- When stock level fall before predefined threshold, automated alert 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 process.

4.3 Notification:- integrated email or SMS alerts for low stock

(5) Performance Requirements:-

(5.1) System should handle upto 500 uses at the same tim.

(5.2) Stock update & order processing should happen within 3 sec.

(5.3) system should be able to handle warehouse upto 100000 items.

(6) Design constaints:-

(6.1) System should be compatible with existing warhou

(6.2) It should follow security protocols to present unauthorised access to warhouse.

(6.3) Integration with external supplier must adhers to industry standard APIs.

(7) Non-functional Req:-

(7.1) Security:- system should keep customer and order details private

(7.2) Relibility :- Ensure 99.9% uptime to avoid distruption in warehouse operations.

(7.3) Data Integrity:- Ensures that level & order inter mate remains consitent & accurate.

(8) Preliminary schedule & Budget:-

project is expected to take 3 monts with a budget of $20000.