(2) Stock maintenance.

(1) Introduction:-

1.1) purpose :- Its purpose is to define functionality for warehouse stock efficiently

1.2) scope :- warehouse management from inventory ~~tracking~~ tracking, taking orders & supplying stocks, transport etc.

(2) General description :- monitoring stock levels, categories stock based on type & 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 stock is present in inventory.

3.4) Restocking alerts :- when stock levels fall before 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.

4.3) 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 & order processing should happen within 3 sec.

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

(6) Design constraints :-

6.1) System should be compatible with existing warehouse.

6.2) It should follow security protocols to prevent unauthorized access to warehouse.

6.3) Integration with external supplier 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 disruptions in warehouse operations.

7.3) Data Integrity :- Ensures that levels & order information remain consistent & accurate.

(8) preliminary schedule & Budget.

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

1/10/24