STOCK MAINTENANCE SYSTEM 1. Introduction 101 Purpose" This document outlines the requirements for the SMS to assist so stakeholders in understanding its objectives and functionalities Scope: The SMS will foilitate the management of stack levels, tracking inventory and generating reposts. It includes preliminary estimates of development cost and timelines Overview: The Stock mointainance system will outomate maintain inventory management, allowing for efficient tracking of Stock levels, rearder. notifications and seposting on stock movements. 2. General description Inventory Practing: Manitoring stock levels in real time Reorder Alests: Notifications for low stock items . Supplier Management: Keeping necords of Supplier information · Reporting: Granewating reports on stock cevels, movements and trends. 3. Functional Requirements 1. User registoration & Login 2. Adding and Deleting inventory items 3. Stack lovel Monitoring and Alaxts Supplier Information Management Generation of Stock Movement reports Search Functionaling for Inventory stems 4. Interface Requirements User Interface: A web-based interface for end users

| Date | |
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· API interfoces: REST ful API'S for integration with

other systems · Databose Enterface: Sol interface for Data management and retrained.

5. Performance requirements · Response Peme: The system should respond to user

actions within 2 seconds · Concurrent Users: Support up to 100 concurrent

users without performance degradation · Pata Storage: Ability to handle up to 10,000 inventory

items and 1000 suppliers · Edder Late: Warinan apprope erasor Late 10/4

6. Design constraints

• Use of sperific DBMS (eg Mys QL or PostgresQL)
• Compliance with relevant data protection regulations

(or GDPR) (eg GDPR)

compatibility with existing buisness systems.

7. Non- Functional Attribute.

8. Preliminary Schedulo & Budget

· Security: Implementation of user authentication and data encryption. . Apostobility: The sysom Should be accesible from

various devices e Peliability: 99% uptimo & regular backup

· Scalability: Ability to accompate more user tems

The estimated duration is 4 months, budget is 840k.

Oappron: Development costs: \$25k · Training 8

Bl. Testing: \$ &k · Deployment: \$.4k, Support: \$3k

Support: \$ 3k