* Stock Maintainance system.

1. Problem Statement

The current stock maintainance system is manual and prone to errors, leading to inaccuracies in inventory tracking, stock shortages & operational inefficiencies. Implementing an automated stock main. system is important to streamline stock management processes, minimize errors, and improve overall operational effectiveness

2. Introduction

2.1 Purpose of the document

To define specifications & requirements for the development of stock main. system.

2.2 Scope of the document

To describe the overall objectives & scope of the stock. maintainance system.

2.3 Overview

Designed to facilitate the management of stocks for business.

3. General Description.

The stock main. system is a digital platform designed to automate & streamline the mana. of inventory. It facilitates accurate tracking of stock levels, timely replenishment & efficient allocation of resources. Through real-time monitoring & reporting capabilities, the system enhances inventory management processes, reduce oper. costs & improves overall business efficiency.

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4. functional Requirements
   • Stock entry
   ability to add, edit & delete stock items from
   the inventory database.
   • Stock tracking
   Realtime monitoring of stock levels, including
   available quantity, location & status.
   • stock movement
   Tracking of stock movement within the organi-
   zation, including transfer between warehouse
   sales transactions & returns.
   • Reporting.
   Generation of reports to provide insights into
   stock - related activities including stock levels
   by item, stock movement history, inventory
   valuation.

5. Interface Requirements
   • Intuitive & user-friendly interface for easy
   navigation & data-entry
   • clear display of stock info.
   • Integration with barcode scanners for
   efficient stock entry & tracking.
   • Compatibility with external systems for data
   exchange.

6. Performance Requirements
   • Quick response time for stock related quires.
   • Minimal down time for system maintainance.
   • Ability to handle large volume of stock item.
   • Scalable arch. to accomodate increasing
   data loads.

7. Design constraints.
   - compatibility with various OS & web browsers.
   - compliance with industry standards for data storage & security
   - Optimization for both desktop & mobile devices.

8. Non-functional attributes
   - security
   Implementation of access controls & encryption mechanism to protect sensitive stock data
   - Reliability
   Reliable backup & recovery mechanism to prevent data loss.
   - Performance
   Efficient performance to handle concurrent users & large datasets.

9. Preliminary schedule & budget
   The development of this system is estimated to take approx. 6 months with a budget of $40,000. This includes the analysis, design, development, testing etc.

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