



ABES Engineering College, Ghaziabad, UP
Department of CSE-DS

INVENTORY MANAGEMENT SYSTEM

Project Domain: WEB DEVELOPMENT

Project Group No: **CSDS3-G40**

PROJECT GUIDE: MONIKA SHARMA

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Abstract

- Our Inventory Management System leverages cutting-edge technologies to address the challenges associated with manual processes, lack of real-time visibility, and inefficient order fulfillment. By embracing automation, real-time tracking, and advanced analytics, our system not only optimizes inventory levels but also enhances decision-making processes, ensuring businesses are well-equipped to respond to dynamic market demands.

Introduction

- Effective inventory management is a cornerstone of operational success for businesses in today's dynamic and competitive markets. The ability to maintain optimal stock levels, streamline processes, and respond rapidly to changing market demands is essential for sustaining growth and maximizing profitability.

Objectives

- **Enhance Operational Efficiency**
- **Real-time Visibility**
- **Optimize Inventory Levels**
- **Improve Order Accuracy**
- **Multi-location Management**
- **Integration with Business Systems**
- **Enhance Customer Satisfaction**
- **Cost Reduction**
- **Accurate Demand Forecasting**

Existing Work of Project

- A lot of work has been done in the field of Inventory management system as written below.
- https://www.researchgate.net/publication/372653862_Inventory_Management_Systems_IMS

Requirements of Project

- The Inventory Management System is developed using:-
- Frontend: html,css,ReactJS
- Backend: javascript
- Database: SQL

Methodology

- **Development:**
- **Coding:** Write the actual code for the inventory management system.
- **Implementation:**
- **Deployment:** Roll out the inventory management system to the production environment.
- **Monitoring and Evaluation:**
- **Performance Monitoring:** Continuously monitor the system's performance and address any issues.
- **User Feedback:** Collect feedback from users and make improvements as necessary.

References

- An Intelligent Stock Trading Decision Support System Using Fusion of Fundamental and Technical Analysis by C. Kathiravan, R. Dhanapal, and P. Sengottuvelan. (Published in the International Journal of Computer Applications).
- "Inventory management in a two-level supply chain with multiple retailers and multiple suppliers" by K. Kannan, P. K. Garg, and A. Noorul Haq. (Published in the International Journal of Production Economics).

Thank You !