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INTRODUCTION

- Stock management is the practice of ordering, storing, tracking and controlling inventory.
- Stock management applies to every item a business to produce its product or services-from raw materials to finished goods.
- In other words, stock management covers every aspect of a business inventory.

The projects contain following modules:

- 1. **PRODUCT MANAGEMENT**: This module is used to add, update, and delete the products.
- 2. <u>PURCHASE MANAGEMENT</u>: This module is used to manage the purchase system.
- 3. **SALES MANAGEMENT**: This module is used to manage the sale od the product.
- 4. USER MANAGEMENT: This module is used to add/delete the user/staff.
- 5. <u>DATABASE SETUP</u>: This module is used to setup the database in the system for the first time.

OBJECTIVE

- 1. To develop an application that deals with the day to day requirement of any production organization.
- 2. To develop the easy management of the inventory.
- 3. To handle the inventory details like sale detail, purchase detail and balance details.

4. To provide competitive advantages to the organization.

SCOPE & FEASIBILTY

stock management system is targeted to the small or medium organization which does not have many warehouse only to those organization that has single power of authority. Some of the scope are:

- 1. Only one person is responsible in assigning the details or search.
- 2. It is security driven.
- 3. Store house can be added as per requirement.

NEED OF STOCK MANAGEMENT SYSTEM

- Keeps track of your inventory and offers a centralized view of stock.
- Controls your costs by making stock report for analysis of your inventory.
- Improves your delivery by managing stock-outs and meeting customer expectations.
- Manages planning and forecasting by analysing data trends.

SYSTEM REQUIREMENTS

• Hardware Requirements

- **Display**: 1920x1080 resolution Monitor.
- Processor: Intel Core i5 or higher.
- <u>Network</u>: Internet connectivity or Wi-Fi.
- Storage: At least 256GB SSD.
- **RAM**: 8GB or higher.

Software Requirements

- Visual Studio Code.
- Git
- My SQL
- XAMPP

TOOLS AND TECHNOLOGY

Graphical User Interface will be the preferred front-end interface to information display, since
easy to use even for inexperienced users, it is attractive, provide shortcuts, and allows room
for multitasking.

• <u>HTML</u>

Hyper Text Mark-up Language is used for developing front-end Graphical user interface. It is standard language used for web pages.

• <u>CSS</u>

Cascading style sheets are a style sheet language used to show a document or content written in mark-up language.

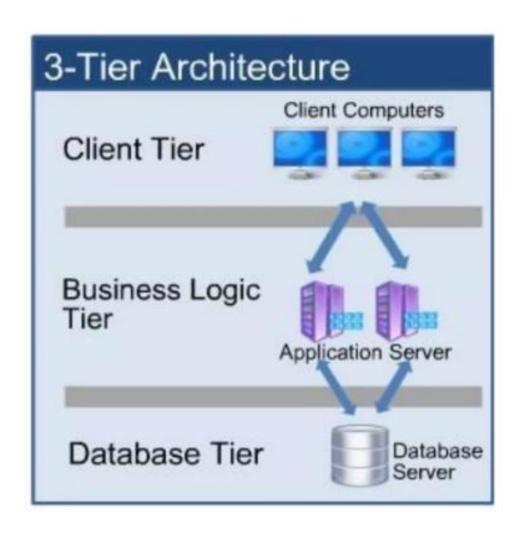
• SPRING BOOT

Spring Boot is a Java framework that makes it easier to create and run Java applications. It simplifies the configuration and setup process, allowing developers to focus more on writing code for their applications.

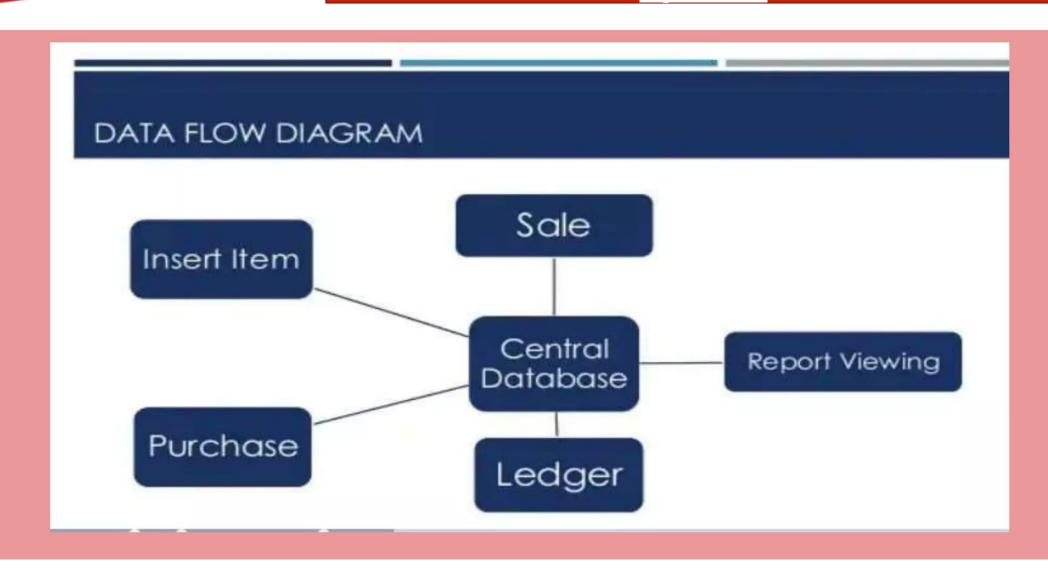
ARCHITECTURAL REVIEW

- The 3-tier includes the three hierarchy of the flow of programming logic from user interface to database and again database to user interface with the desired information requested by the clients. In between there involves the logic layer for effectively and correctly manipulating the request. The 3-tier includes the following:
- <u>Client Tier:</u> The main function of this tier is to display information to the user upon user's request generated by user's inputs such as firing button events.
- <u>Business Tier:-</u> The middle tier, business logic, is called by the client to make database queries. It provides core function of the system as well as connectivity to the data tier, which simplify tasks that were done by the clients tier.
- <u>Data Tier:-</u> Data layer is also the class which gets the data from the business tier and sends it to the database or gets the data from the database and sends it to business tier. This is the actual DBMS access layer or object layer also called the business object. The database backend stores information which can be retrieved by using the SQL SERVER database Connectivity.

TIER ARCHITECTURE



Data Flow For Stock Management System



OVERVIEW OF STOCK MANAGEMENT

- A Stock Management System is a software solution designed to efficiently track, manage, and control stock levels within a business.
- It ensures that inventory is accurately recorded, prevents overstocking or stock shortages, and optimizes the supply chain process.

Key Aspects of the System:

- To automate and streamline stock tracking.
- To improve inventory accuracy and reduce human errors.
- To provide real-time data for decision-making.

FEATURES

Stock Entry & Update: Adding new stock and updating quantities.

• Inventory Tracking: Monitoring stock levels in real time.

• Alerts & Notifications: Low stock alerts, expiry reminders.

 Reporting & Analytics: Generate daily, weekly, and monthly reports.

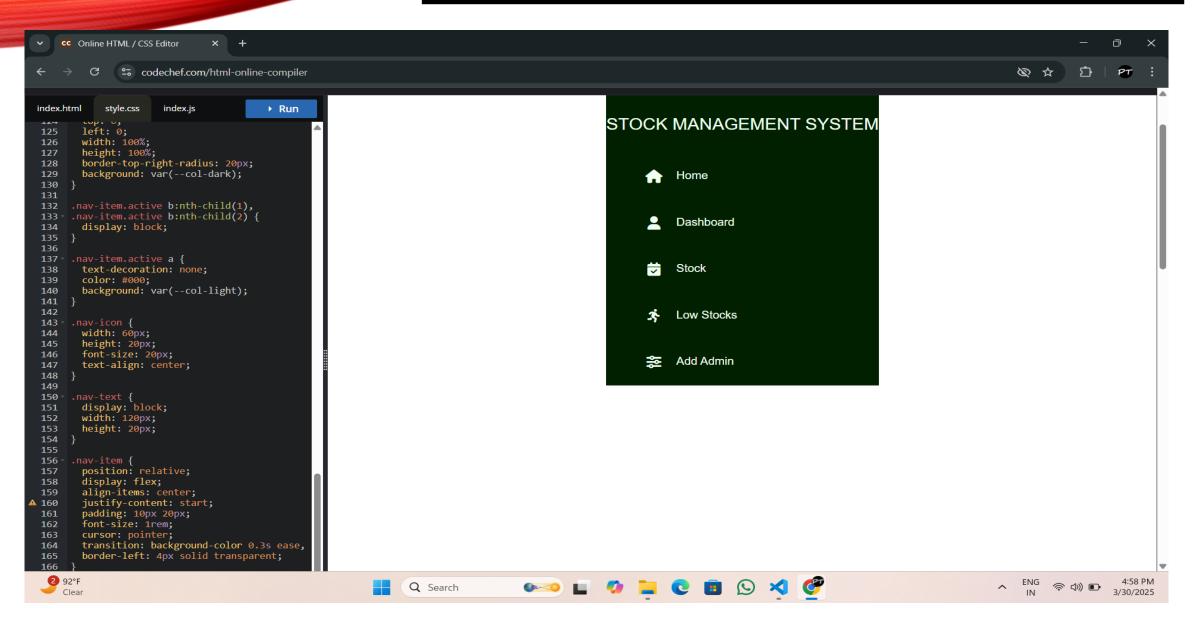
BENEFITS

Reduces errors and saves time.

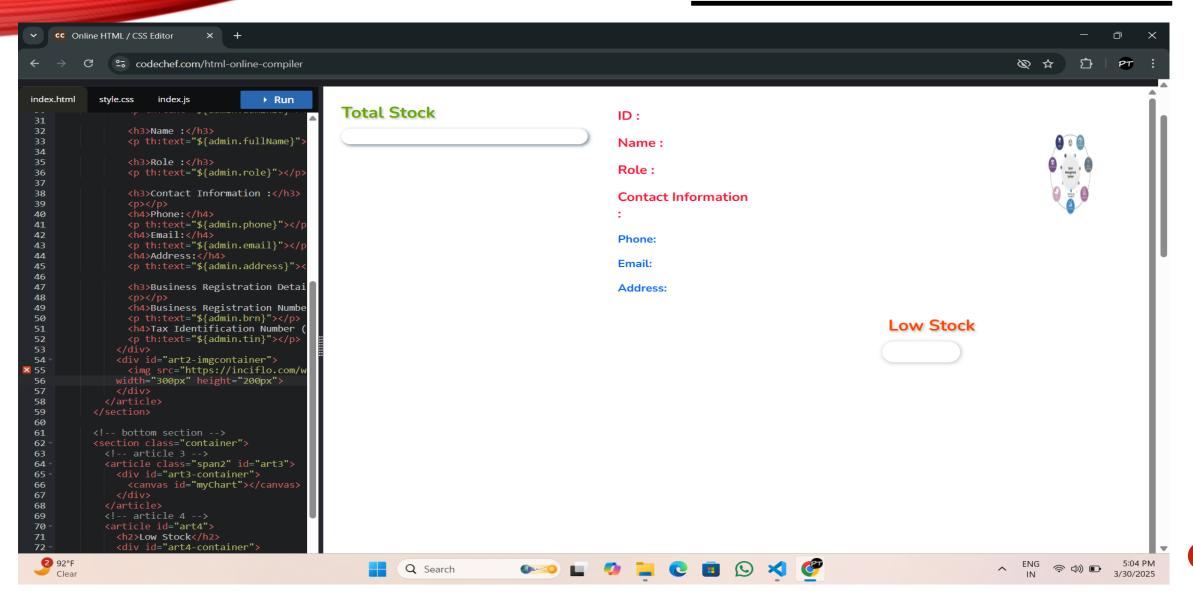
Improves efficiency in stock handling.

Helps businesses make data-driven decisions.

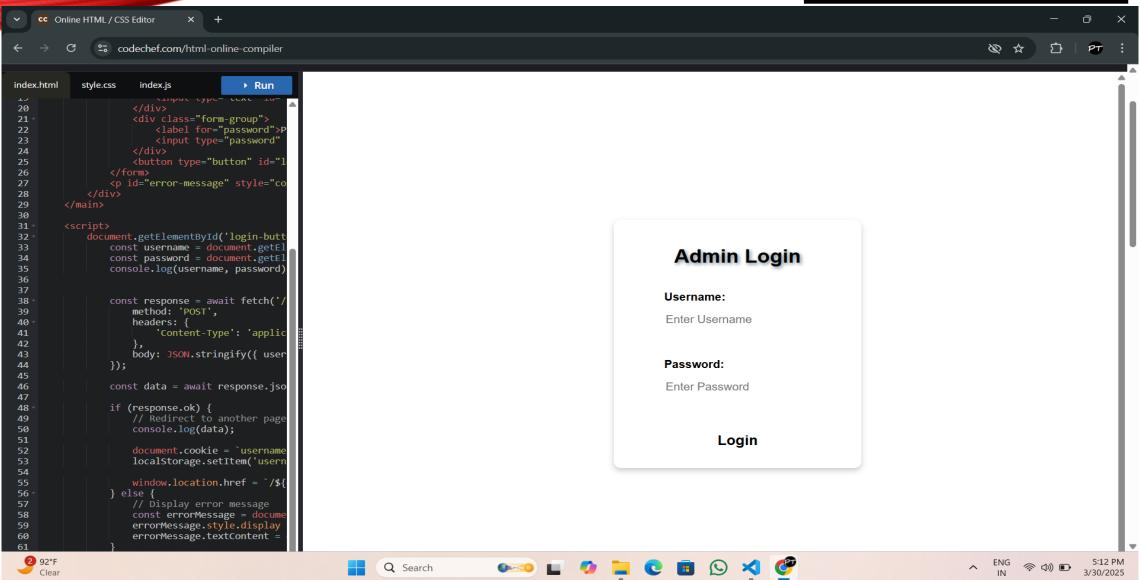
STOCK MANAGEMENT SYSTEM



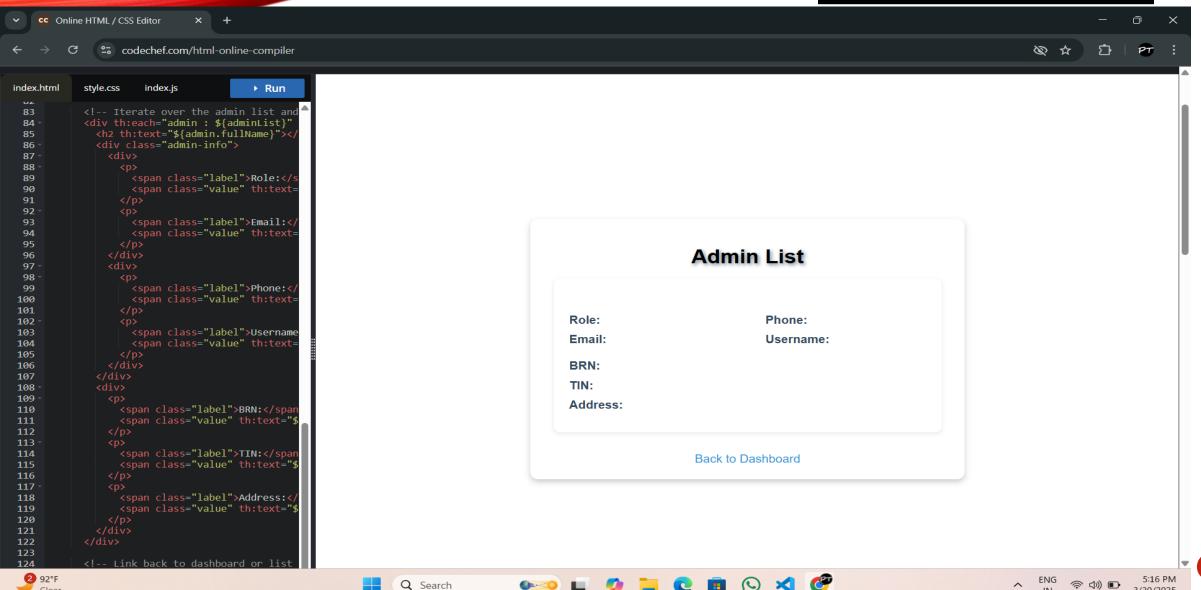
DASHBOARD PAGE



LOGIN PAGE

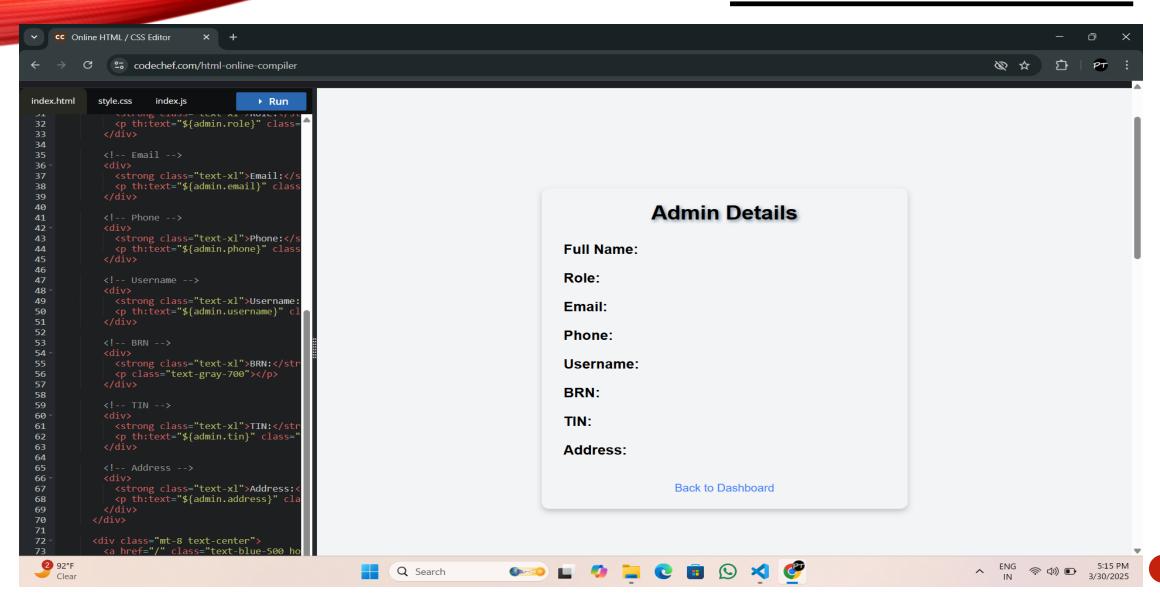


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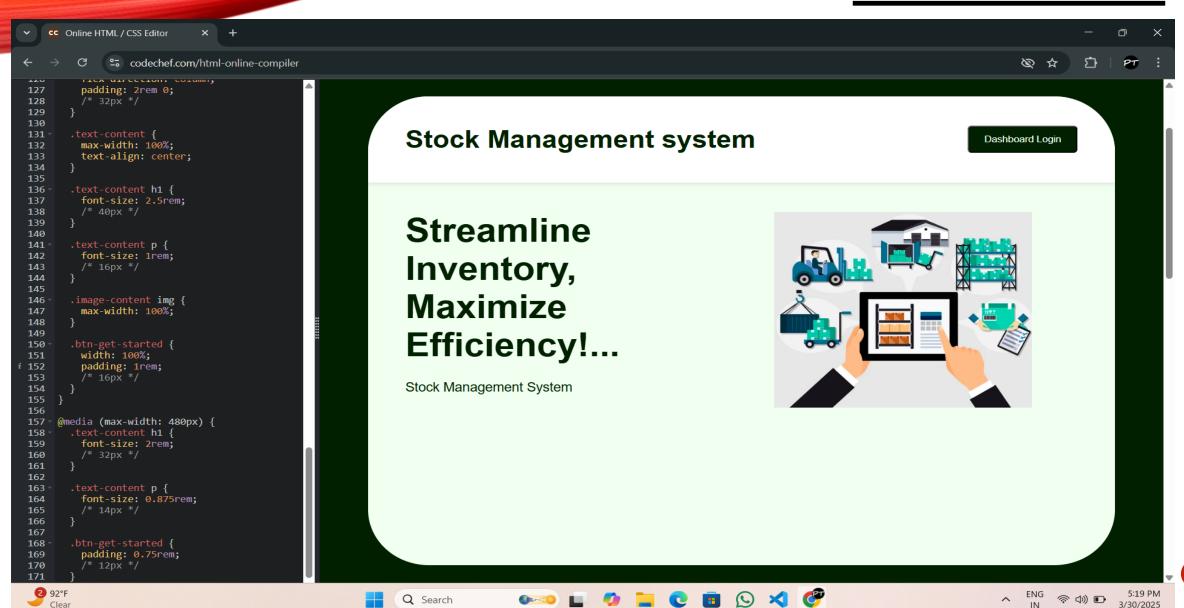


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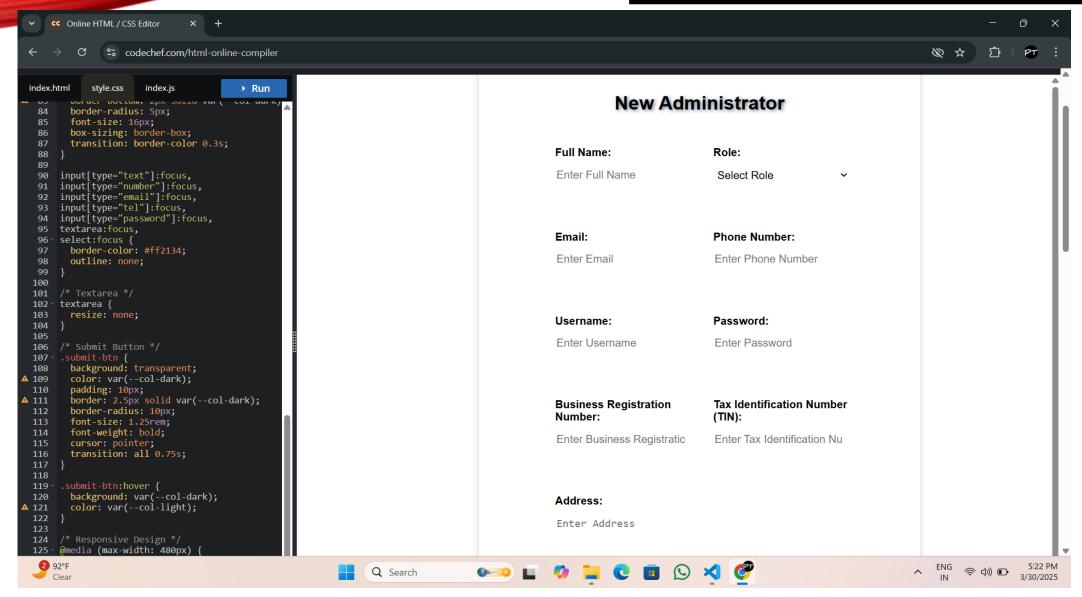
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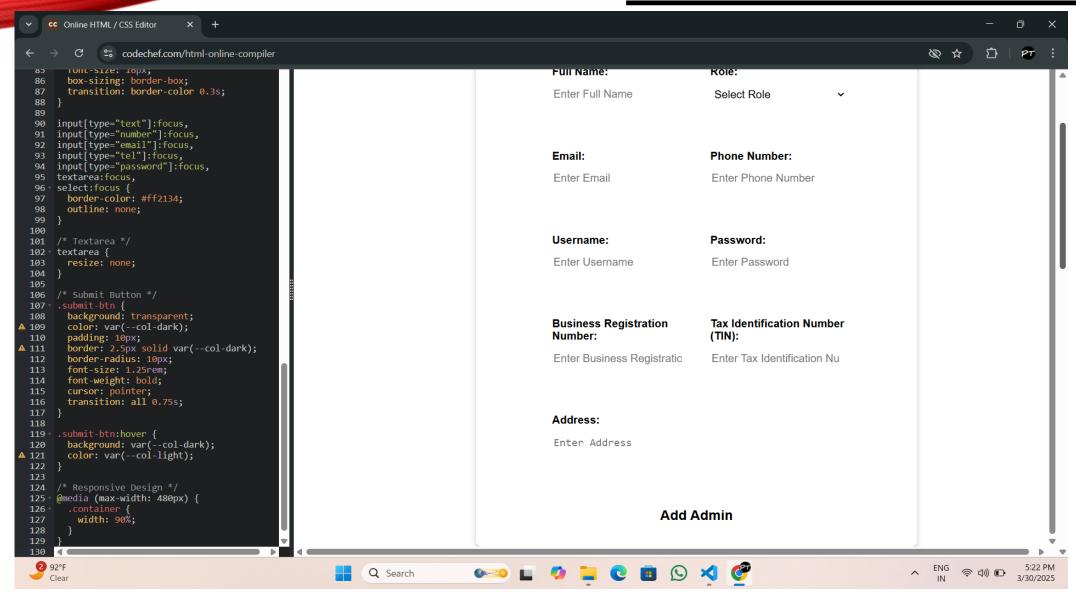
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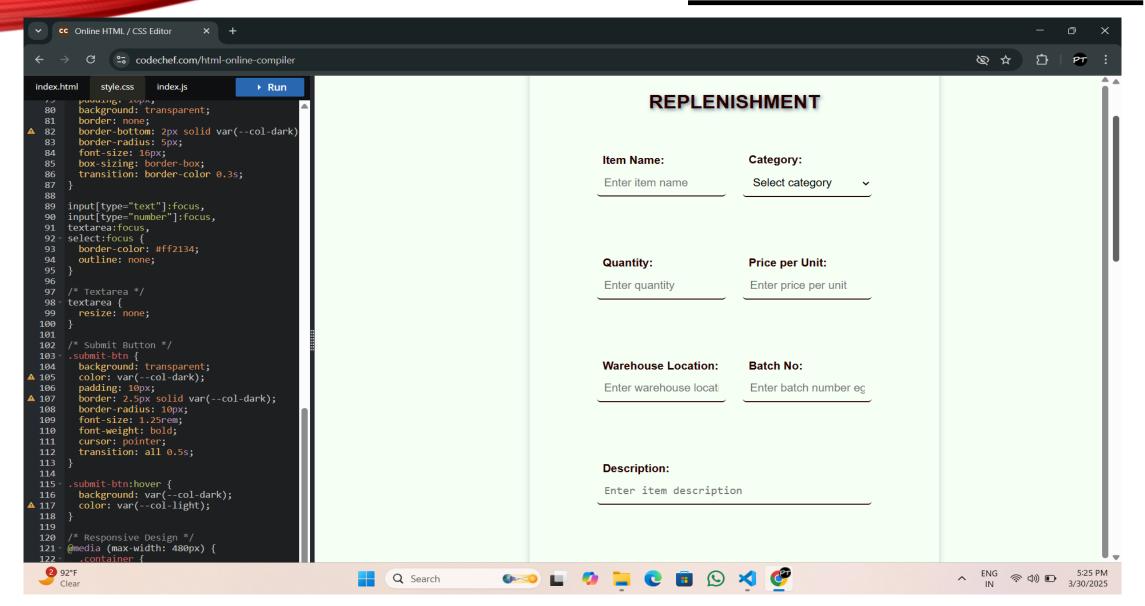
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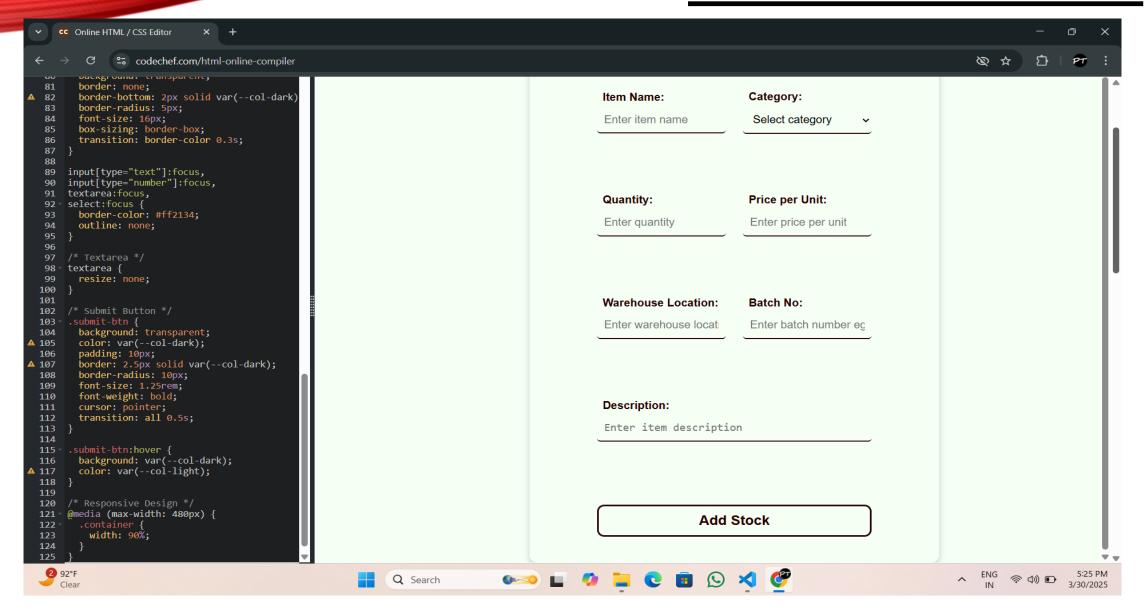
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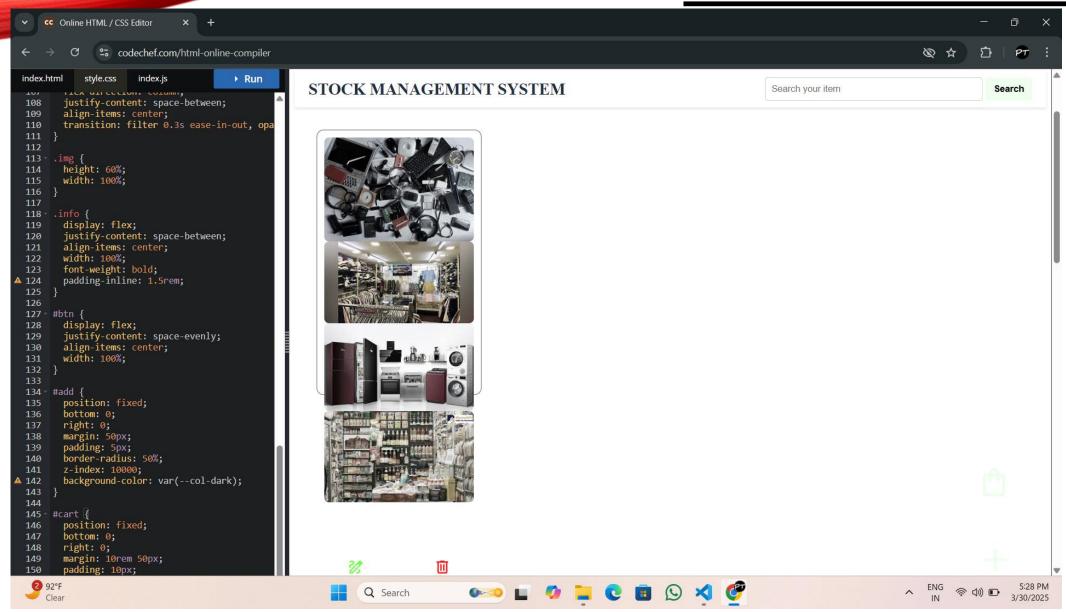
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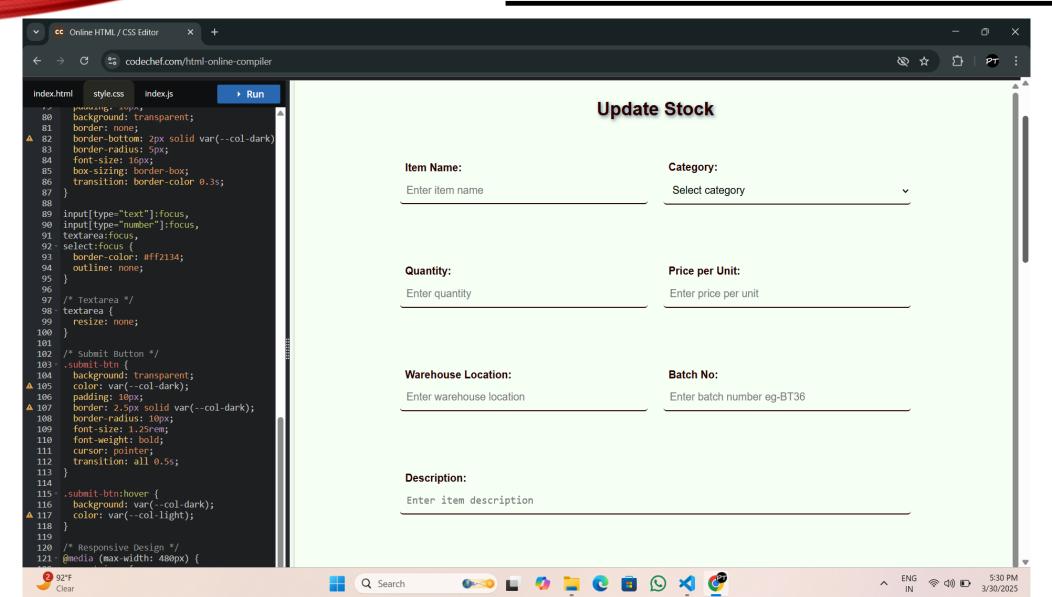
ADD STOCK PAGE



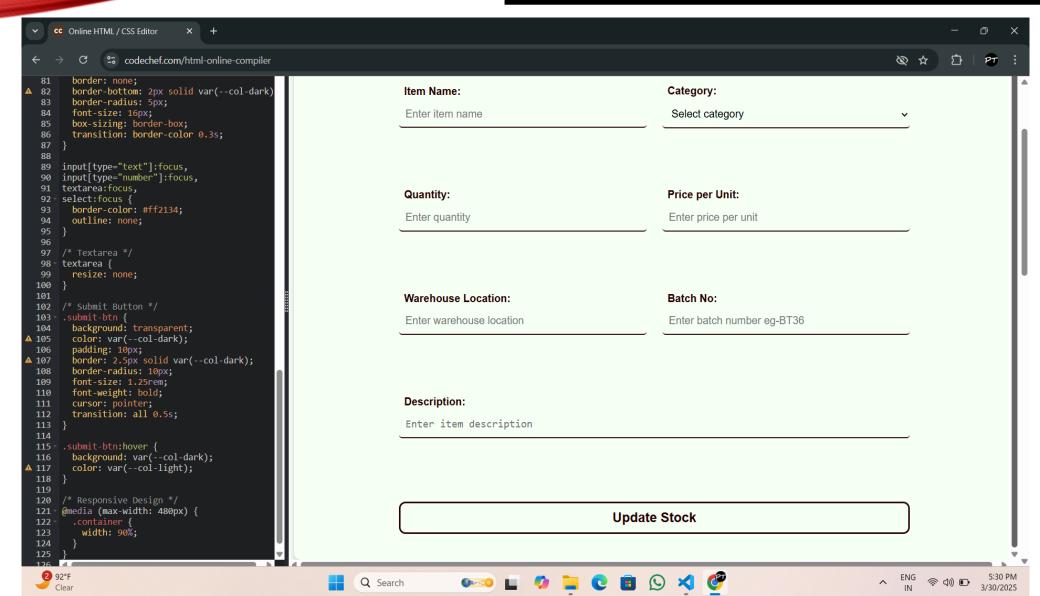
PRODUCT PAGE



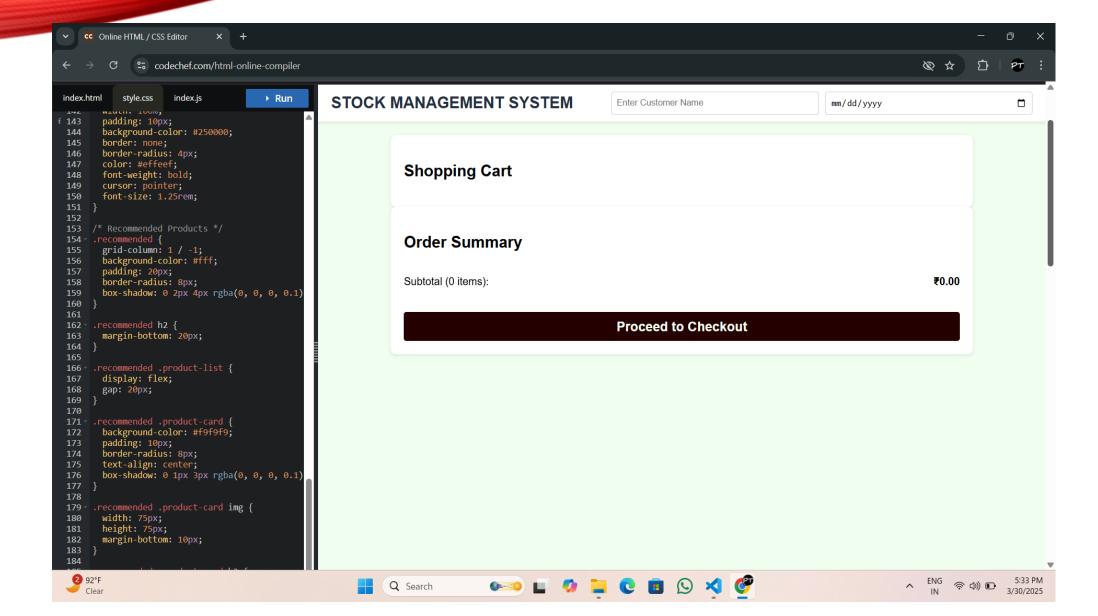
UPDATE PRODUCT PAGE



UPDATE PRODUCT PAGE



CART PAGE



FUTURE ENHANCEMENTS

Al-based Demand Prediction

Mobile App Integration

Barcode Scanner Integration

CONCLUSION

 The system is designed to reduce human labour and efficiently maintaining the stock.

 It provides flexible and powerful reports regarding item, purchase, sales and ledgers.

 We hope that it will help people to reduce both time and money.

