# ONLINE GROCERIES ORDERING SYSTEM.

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Abstract: This project focuses on developing a robust and user-friendly online grocery shopping system. The system aims to provide customers with a convenient platform to browse a wide variety of grocery items, place orders online, and choose from various payment options for a hassle-free shopping experience. Key features include an intuitive user interface for online browsing, a secure order placement process, and potential integration of personalized product recommendations to enhance the customer experience. The system is designed to be scalable and efficient, allowing for seamless management of inventory, order fulfilment, and delivery logistics. Ultimately, this online grocery system seeks to revolutionize the grocery shopping experience by offering an accessible and convenient alternative to traditional brick-and-mortar stores

Keywords: Online Grocery Shopping, E-commerce, User-friendly, Scalable, Inventory Management, Payment Processing, Personalized Recommendations.

## INTRODUCTION

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web sites providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace. The objective of this project is to develop a general-purpose e-commerce store where Grocery product can be bought from the comfort of home through the Internet. However, for implementation purposes, this paper will deal with an online shopping for Grocery. An Online Grocery Store is a virtual store on the Internet where customers can browse the catalog and select products of interest. The selected items may be collected in a shopping cart.Therefore, it allows administrator to track the order of the customer so that they can prepare for it and deliver if needed. Furthermore, in this study, the developer shall create the system that is fully computerized, user-friendly, time effective and well-organized.

## LITERATURE SURVEY

1. **“Smart Grocery Management System Using IoT”**
• Authors: K. Sharma, R. Singh, M. Verma
• Published in: International Journal of Computer Applications, 2021
• Summary: This paper proposes an IoT-based grocery management system that automatically tracks inventory levels and alerts users for replenishment. It integrates RFID tags and cloud storage for real-time monitoring. The research focuses on reducing food waste and enhancing user convenience.

2. **"Design and Implementation of a Grocery Inventory Management System"**
• Authors: A. Mohammed, S. A. Khan
• Published in: International Journal of Engineering Research & Technology (IJERT), 2020
• Summary: The authors present a software-based inventory system for grocery stores that maintains real-time stock updates. The system features a user-friendly interface, automatic billing, and low-stock alerts. It uses a MySQL database and Java front-end.

3. "**A Mobile-Based Grocery List and Inventory System"**
• Authors: L. Santos, J. De Guzman
• Published in: International Journal of Mobile Computing and Application, 2019
• Summary: This study introduces a mobile application that allows users to create and manage grocery lists, track item expiry, and suggest recipes based on available inventory. It emphasizes user experience and uses Firebase for data storage. 6 4. "An Intelligent Grocery Management System using

4. **"An Intelligent Grocery Management System using Machine Learning"**
• Authors: R. Patel, M. Chauhan
• Published in: IEEE Conference on Smart Computing, 2022
• Summary: The system integrates machine learning to predict purchasing patterns and optimize inventory management. It also provides personalized recommendations based on user preferences and seasonal trends.

**5. "Digital Transformation in Grocery Retail: A Case Study"**
• Authors: B. Nair, D. Thomas
• Published in: Journal of Retail and Consumer Services, 2021
• Summary: This paper provides a case study on how grocery retail chains are leveraging digital tools for supply chain and stock management. It highlights the importance of analytics, mobile apps, and customer data for improving grocery operations.

**6. "Consumer Acceptance of Online Grocery Shopping"**
• Authors: Sanjeev Jha, Pratima Sheorey
• Publication in: International Journal of Business and Management Invention, 2022
• Summary: This paper reviews factors influencing consumers' acceptance of online grocery shopping, including convenience, trust, and perceived risk. It also discusses technology adoption models like TAM and UTAUT.

## Proposed System

In the proposed system user need not go to the shop for buying the grocery items. He can order the grocery item the wishes to buy through the application in his website. The shop owner will be admin of the system. Shop owner can appoint moderators who will help owner in managing the users and grocery item orders. The system also recommends a home delivery system for the purchased grocery items.

**Advantages:**

• Save time. A 28-mile round trip, plus whatever time it takes to shop can easily burn up an hour or more of my day.
• Save on transportation costs. Back when I was working away from home, simply scheduled my time to swing by the grocery store on the way home from work.
• Fast, efficient, and accurate information on grocery products
• Simple and quick checkouts.

• Shorter delivery period / 24 hours delivery of fresh produce.
• Variety of delivery options.
• Exciting deals and freebies on orders.
• Multiple payment choices.
• Click & collect the delivery method to pick up goods from a physical store, to save delivery costs.
• Better customer service by giving real-time order updates.
• MRP of the product align with the item weight.
• Delivery information and return policy
• Review and Rating section

**Applications:**

1. Convenience: Customers can shop for groceries from anywhere, at any time, without having to physically visit a store.
2. Time-Saving: Customers can save time and effort by avoiding long queues and crowded stores.
3. Personalized Experience: Customers can receive personalized product recommendations based on their shopping history and preferences.
4. Easy Comparison: Customers can easily compare prices and products from different retailers.
5. 24/7 Availability: The online platform is available 24/7, allowing customers to shop at their convenience.
6. Increased Reach: Retailers can reach a wider customer base and increase their sales potential.
7. Inventory Management: Retailers can manage inventory levels more efficiently, reducing waste and optimizing stock replenishment.
8. Data Analysis: Retailers can gain valuable insights into customer behavior, shopping patterns, and market trends.
9. Competitive Advantage: Retailers can differentiate themselves from competitors and establish a strong online presence.
10. Cost Savings: Retailers can reduce costs associated with maintaining physical stores, such as rent and

## OUTPUT SCREENS

**Output Screen 1**

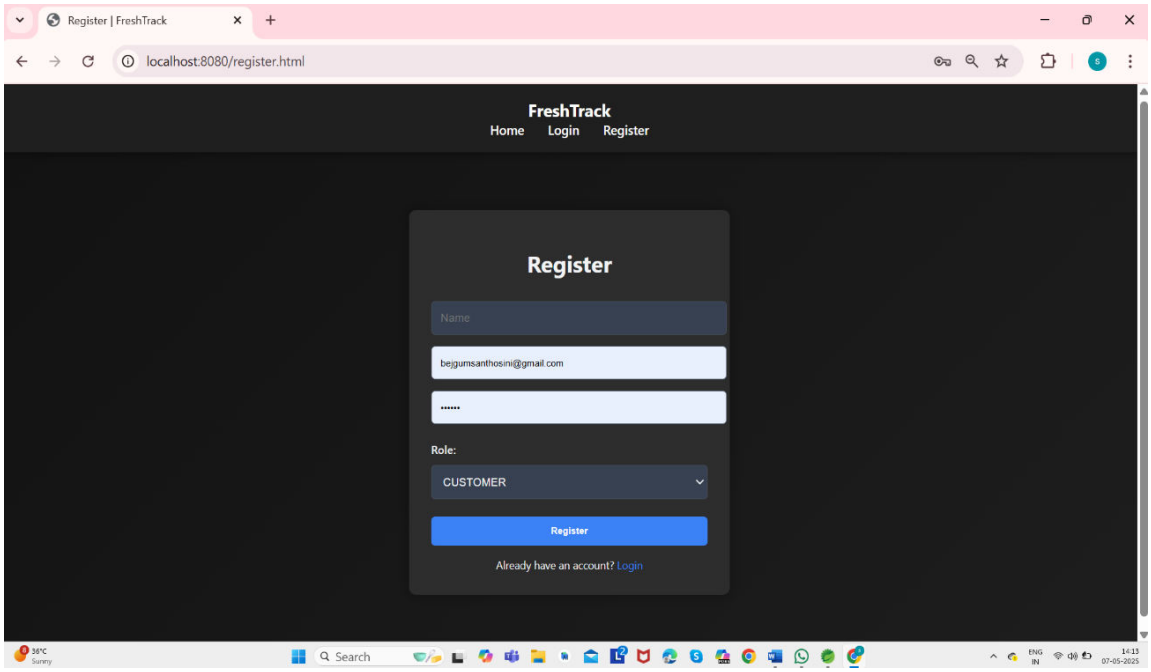


*Fig 1: User Registration page for Register*

**Output Screen 2**

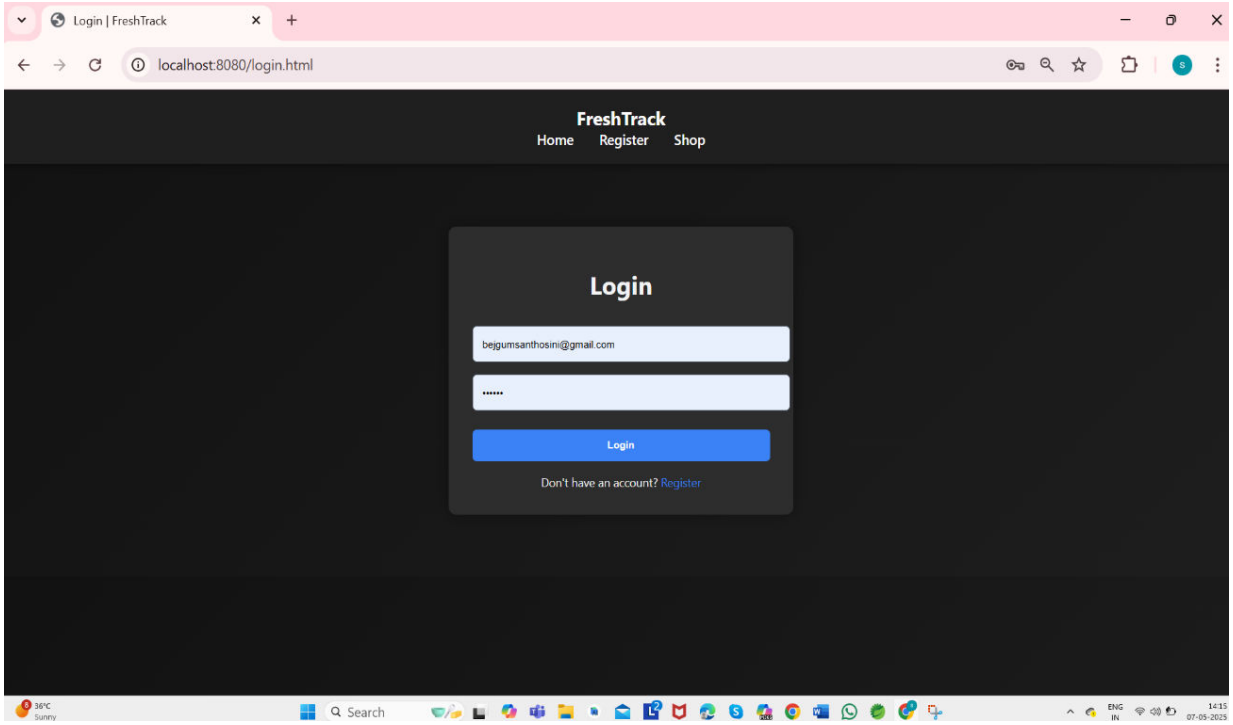


*Fig 2: User/Admin Login Page To Login Into Account*

**Output Screen 3**

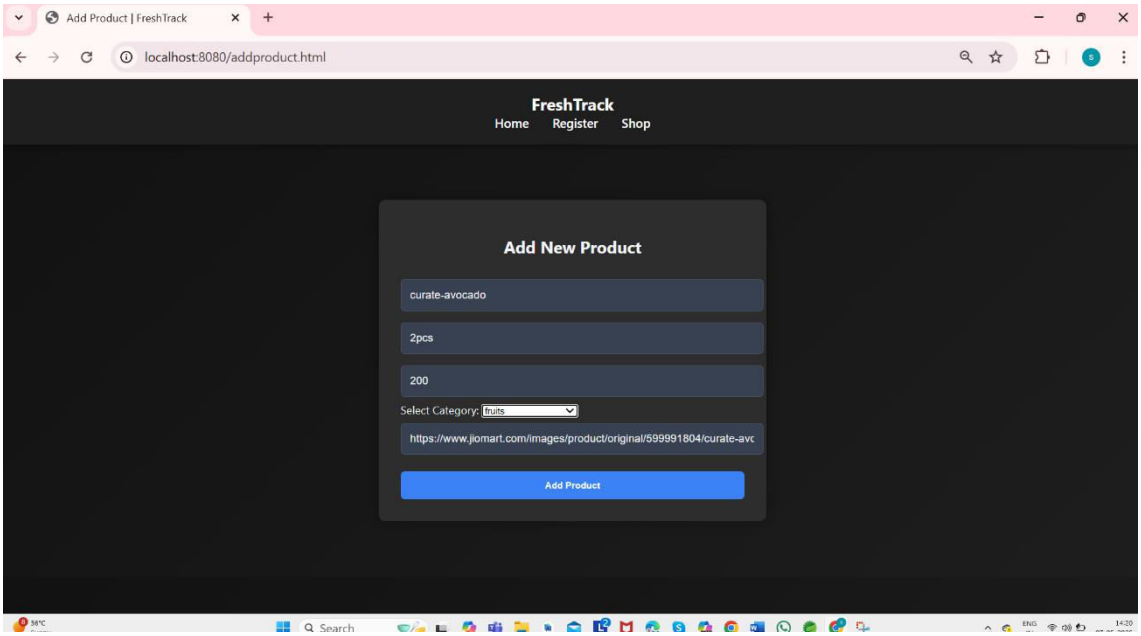


*Fig 3: Admin Home Page*

**Output Screen 4**

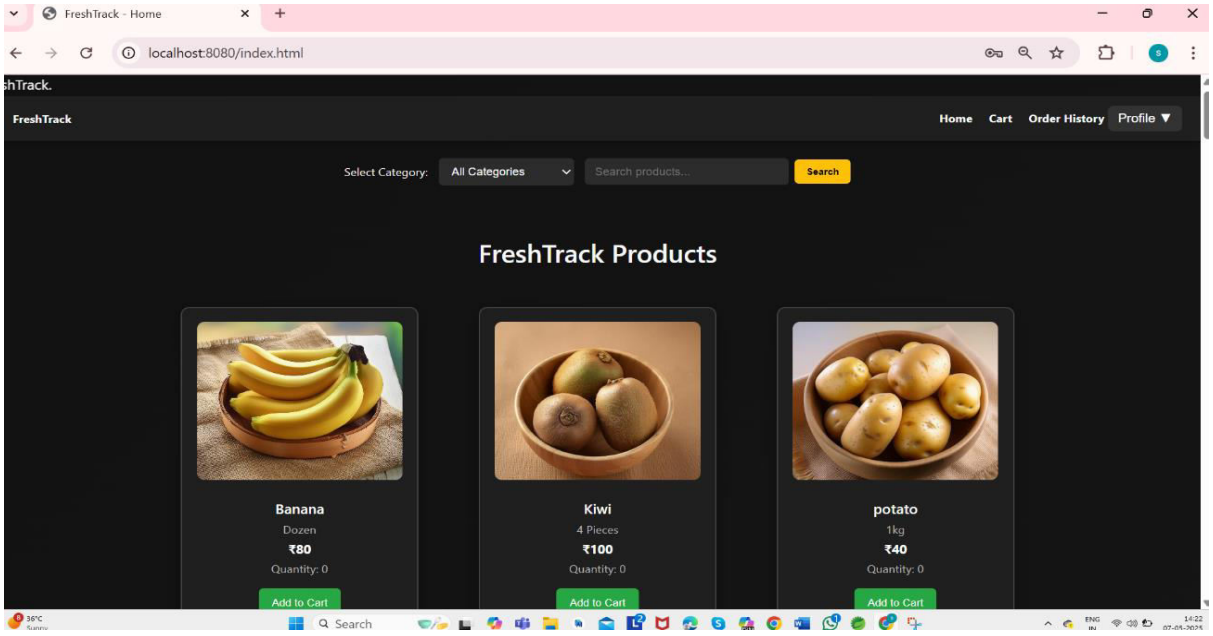


*Fig 4: User Home Page To Select The Items*

**Output Screen 5**

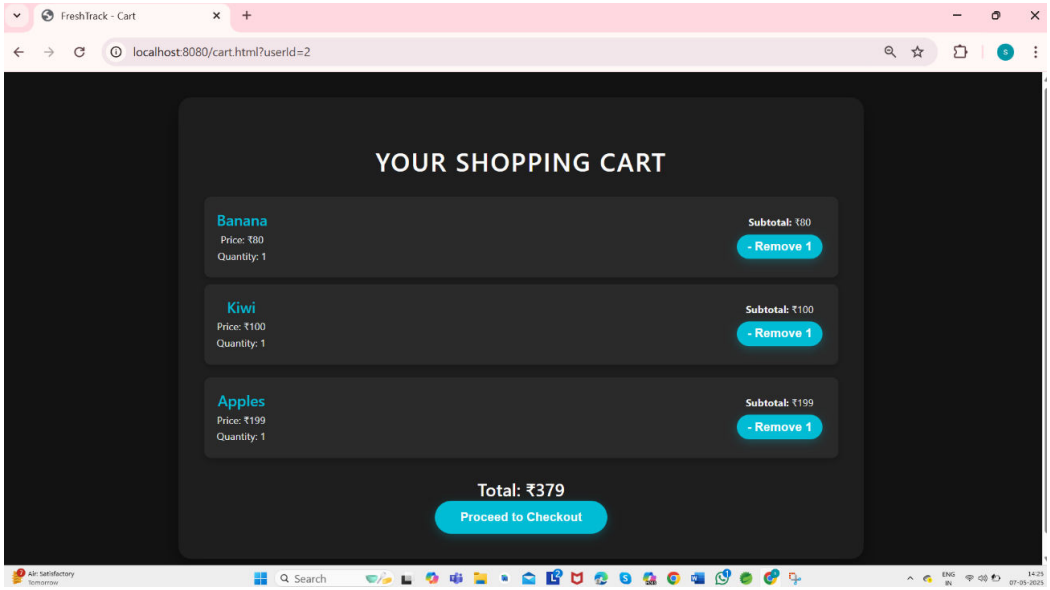


*Fig 5: Shopping Cart Page To Display Cart Items*

**Output Screen 6**

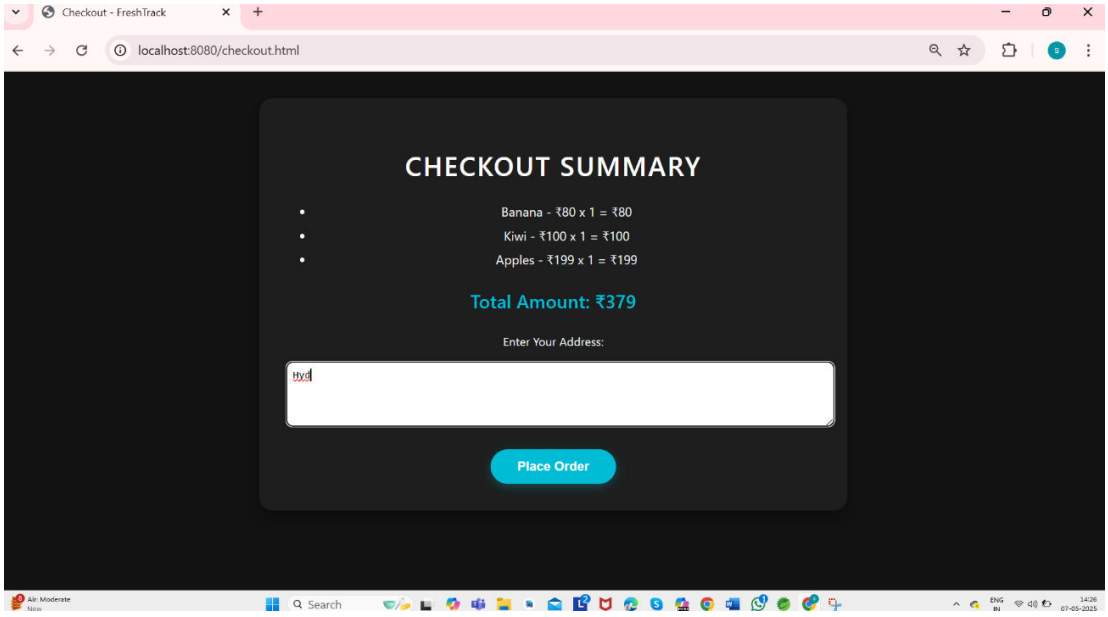


*Fig 6: Check Out Page To Place Order*

**Output Screen 7**

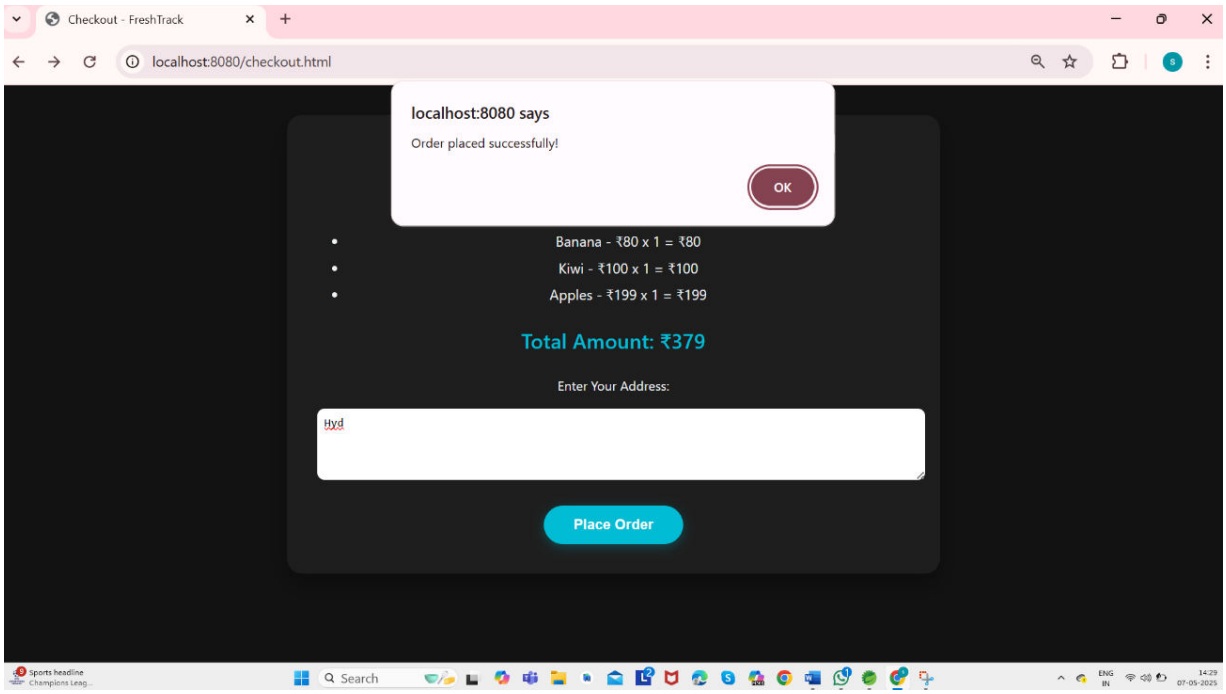


*Fig 7: Order Successful Display After Order*

***Output Screen 8***

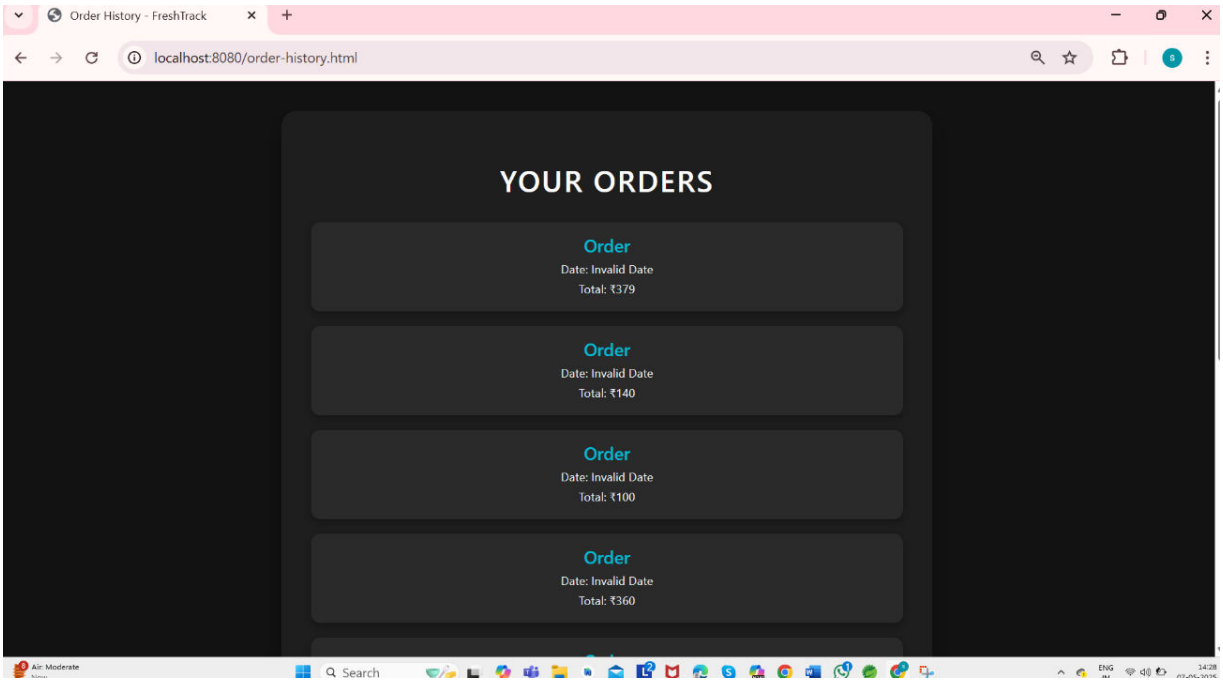


*Fig 8: Order History Page To Display Recent Order*

## Conclusion

Online shopping is becoming more popular day by day with the increase in the usage of World Wide Web, Understanding customer's need for online selling has become challenge for marketers. Specially understanding the consumer's attitudes towards online shopping, making improvement in the factors that influence consumers to shop online and working on factors that affect consumers to shop online will help marketers to gain the competitive edge over others. After having detail study on Online Shopping one can see a great change in the behavior of people in many manners like their attitude, buying pattern. In earlier times people use to do manual shopping but now as time changed people are becoming busy and due to which technology has brought a new revolution. From the results we have concluded that the most influencing and attractive factor among four factors particularly the security concerns are very important while shopping online. Last but not least after analyzing, we have found that low price, discount, product pricing, and quality of product and information are also considered to be important factors.

## FUTURE SCOPE

The Groceries Ordering System has strong potential for enhancement and expansion. The current version serves as a foundational prototype, but several improvements can be made to turn it into a production-ready, fully functional e-commerce platform. There is a scope for further development in our project to a great extend. A number of features can be added to this system in future like providing moderator more control over products so that each moderator can maintain their own products.

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