

Florida International University



Students: Aday Devora Delgado, Daniel Jesus Gamon, Joshua Michael
Doucette, Natan Farhy, Robens Duverny

Instructor/Faculty: *Dr. Masoud Sadjadi, PhD*, Florida International University

E-Commerce Database System

Abstract:

Building from the ground up, our team has developed a comprehensive e-commerce database and website, streamlining product information management and enabling seamless customer experiences through a robust and scalable online platform.

While E-commerce solutions may struggle with inefficient product catalog management, slow page loads, and clunky checkout processes, our platform is designed to excel in key areas such as product information management, order fulfillment, and mobile responsiveness.

By focusing on customer-centric design and best-in-class technology, we aim to deliver a seamless and intuitive online shopping experience, featuring easy product discovery, streamlined navigation, and secure payment processing.

Current System:

- The current system has limitations in managing product inventory, customer data, orders, and transactions. Issues include inefficiencies, data security vulnerabilities, and challenges in handling large data volumes and integrating various system components.

Purpose of New System

- The new system aims to address the shortcomings of the current system by enhancing data security, improving efficiency in managing large data volumes, and integrating seamlessly with other components. The goal is to provide a robust and scalable solution for product inventory management, customer data handling, order processing, and transaction management.

Requirements:

Functional: Handle orders, products, shipments, customer data, integrate with payments systems.

Non-Functional: Scalable, reliable, secure, and user-friendly.

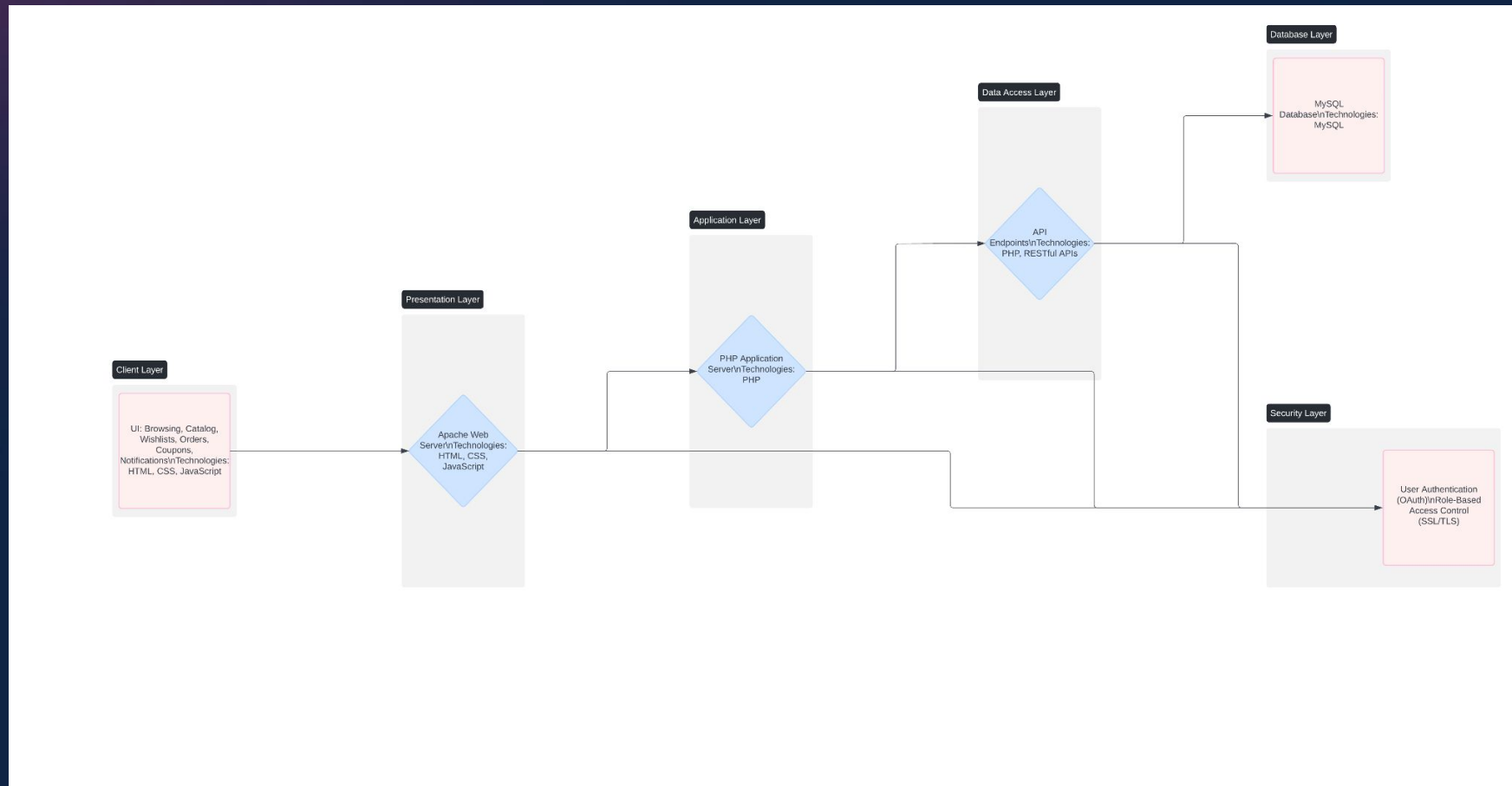
Implementation:



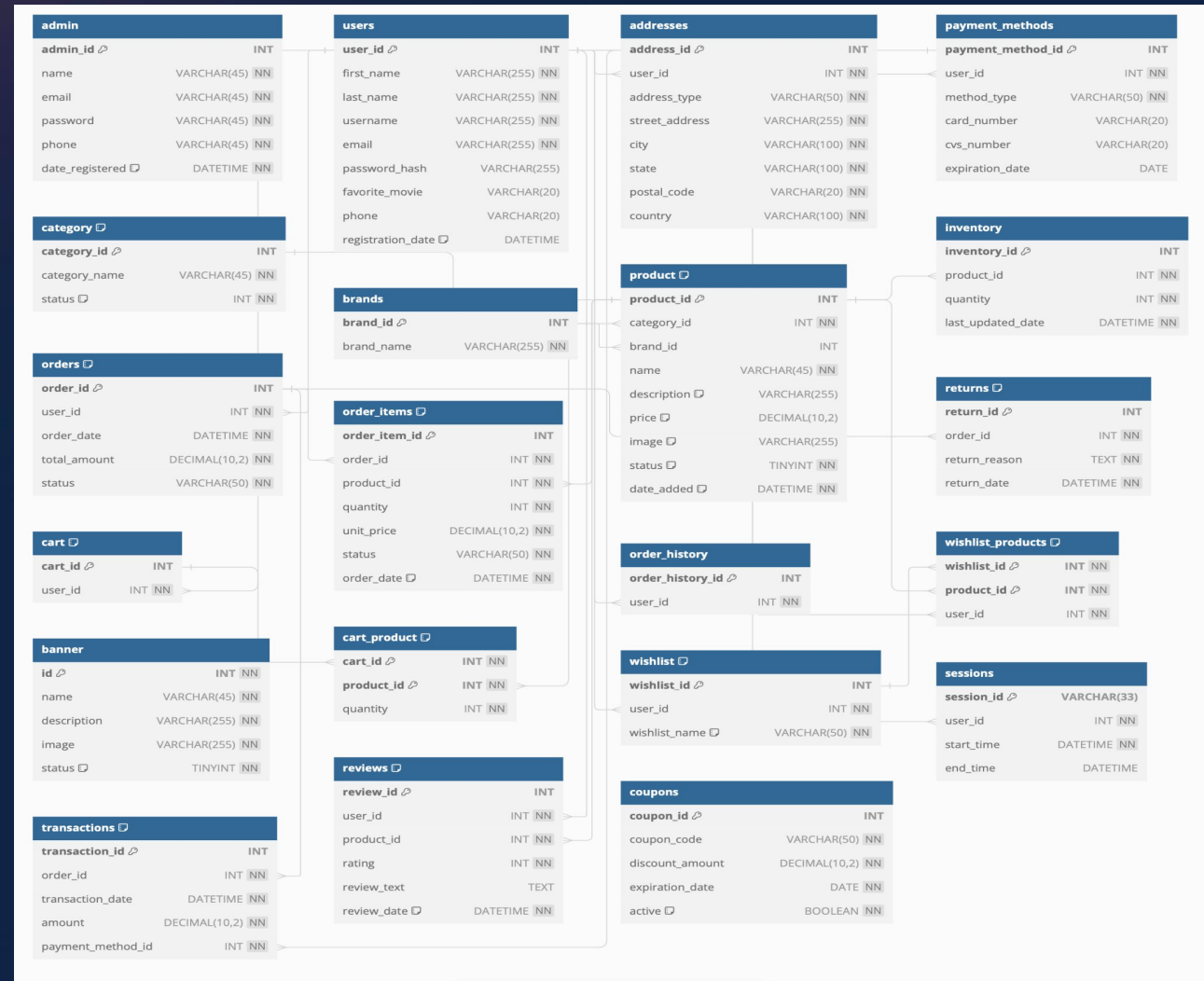
Use Cases:

- **Add and Update Product Information:** Admins can add new products and update existing product details, such as price, description, stock quantity, and images. This ensures accurate and up-to-date product information for customers.
- **Place and Track Orders:** Customers can place orders by adding products to their cart and proceeding through checkout. They can also track the status of their orders, from processing to shipping and delivery, ensuring a seamless shopping experience.
- **Customer Registration and Profile Management:** Customers can register and create accounts, update their personal information, manage addresses, and save payment methods. This enhances user experience by providing personalized services and streamlined account management.
- And more...

System Design

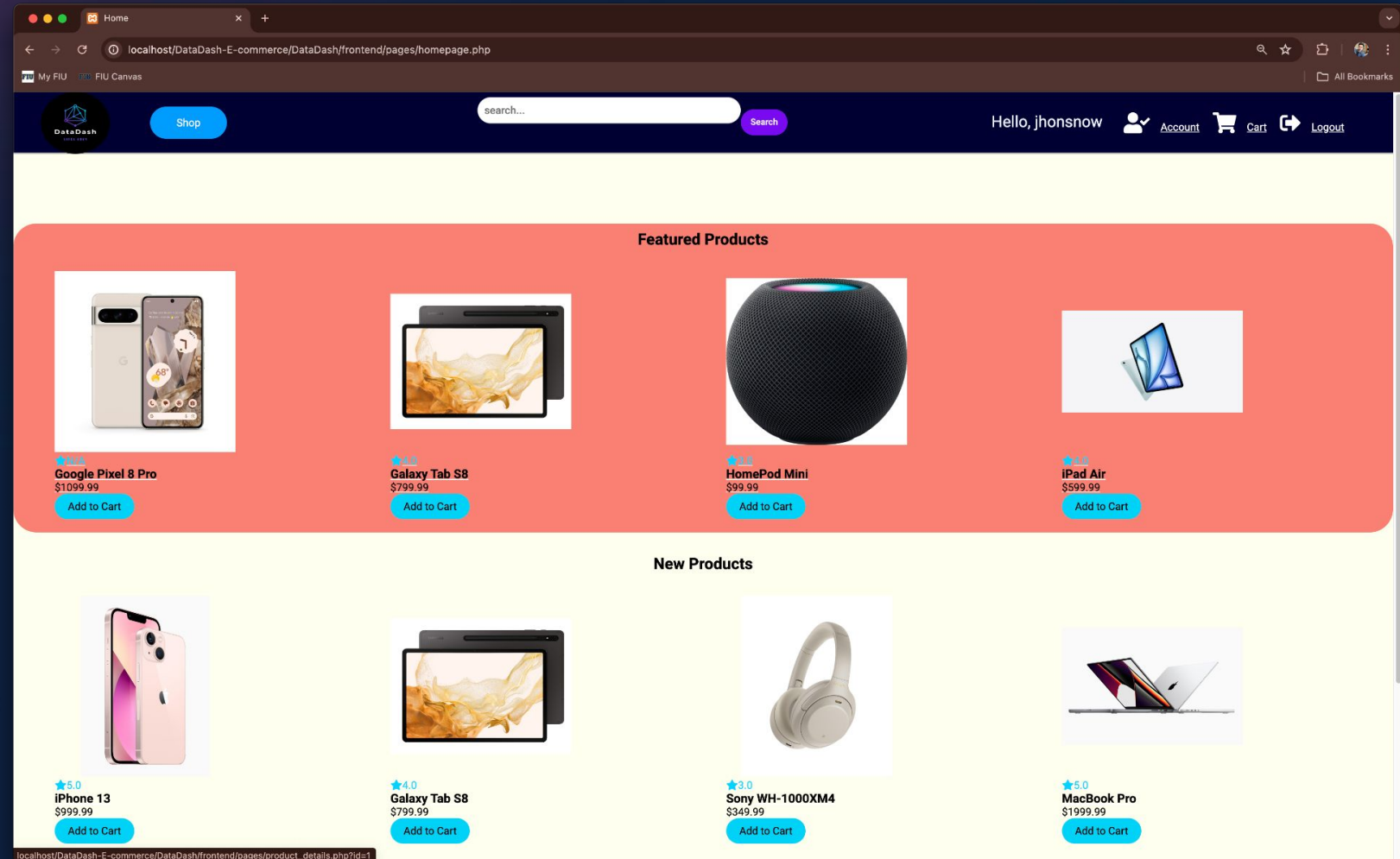


Database



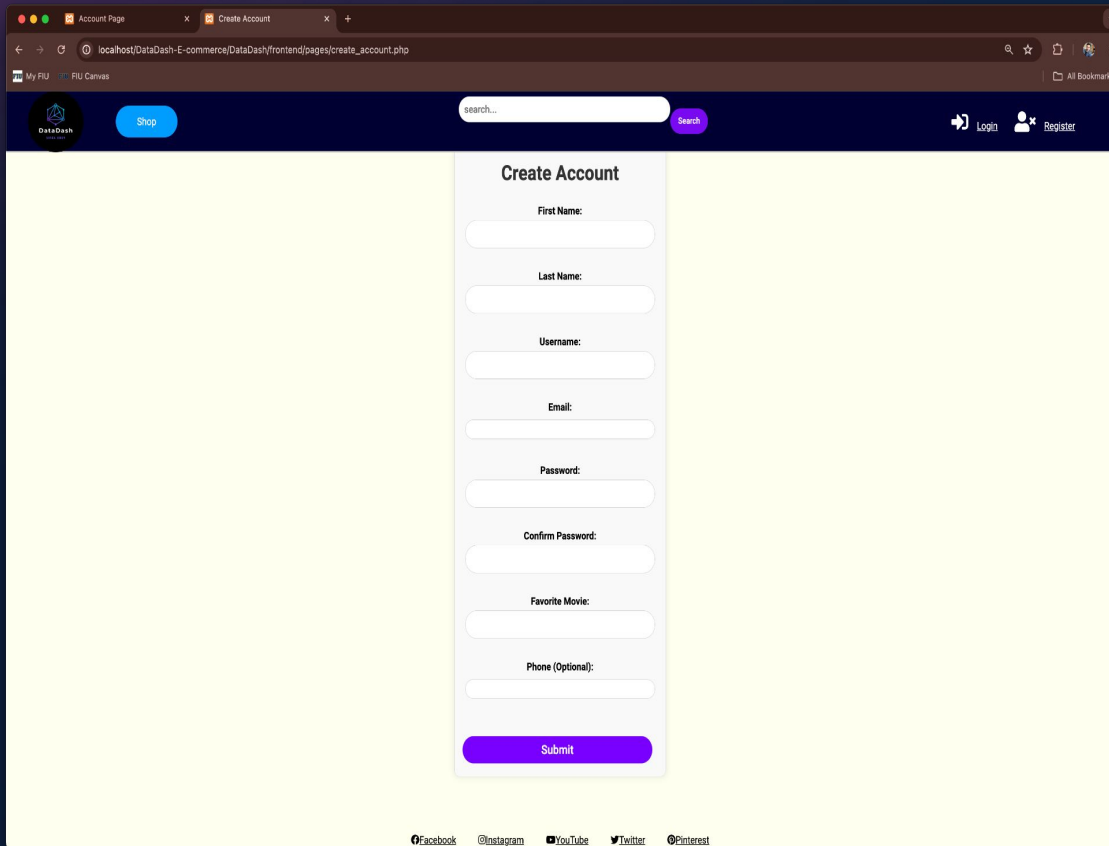
Website

Homepage



Website

User Authentication



Account Page x Create Account x +

localhost/DataDash-E-commerce/DataDash/frontend/pages/create_account.php

My FIU FIU Canvas

search... Search

Shop Login Register

Create Account

First Name:

Last Name:

Username:

Email:

Password:

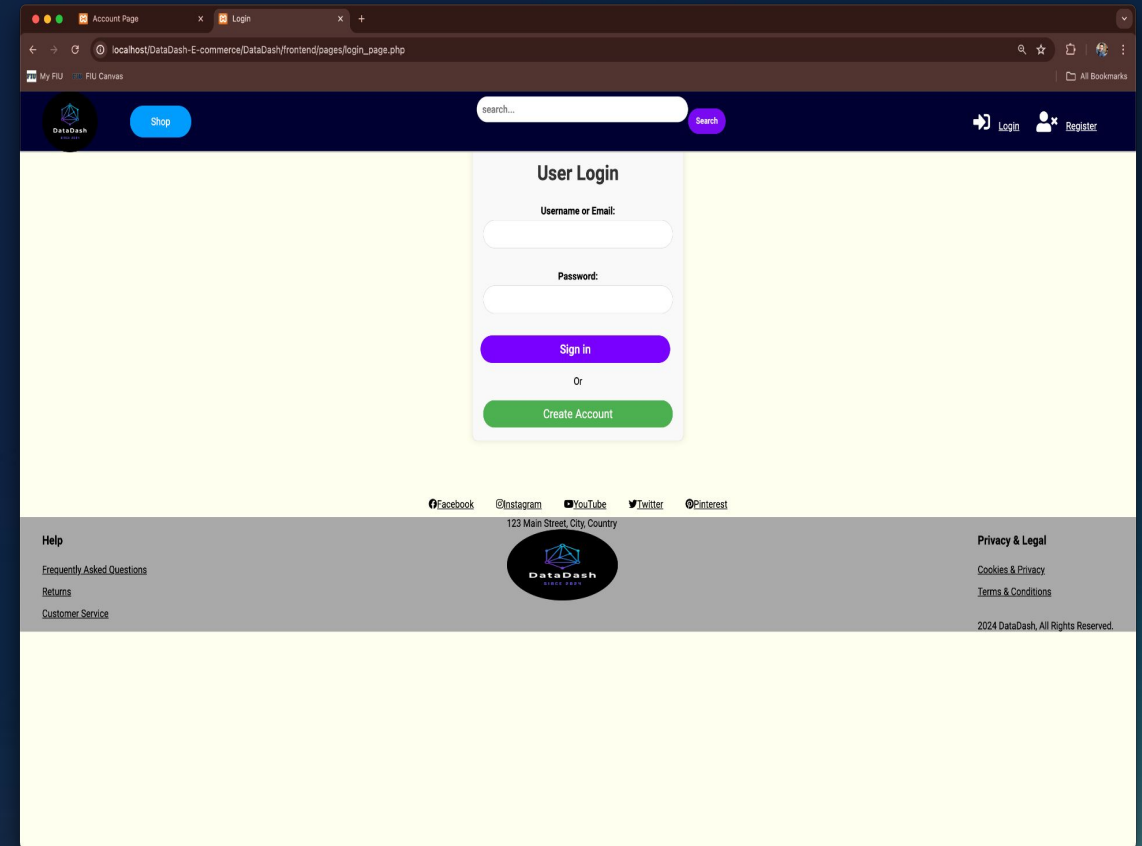
Confirm Password:

Favorite Movie:

Phone (Optional):

Submit

Facebook Instagram YouTube Twitter Pinterest



Account Page x Login x +

localhost/DataDash-E-commerce/DataDash/frontend/pages/login_page.php

My FIU FIU Canvas

search... Search

Shop Login Register

User Login

Username or Email:

Password:

Sign in

Or

Create Account

Facebook Instagram YouTube Twitter Pinterest

123 Main Street, City, Country

Help

Frequently Asked Questions

Returns

Customer Service

Privacy & Legal

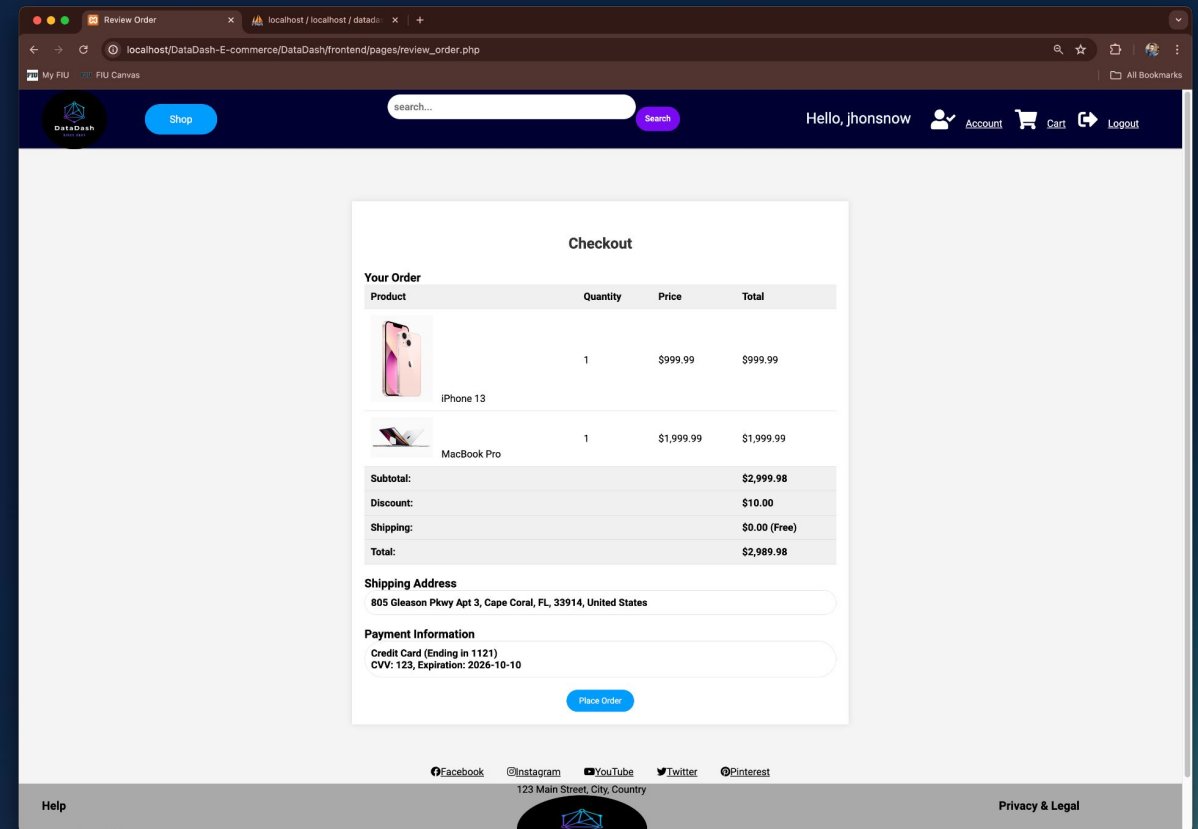
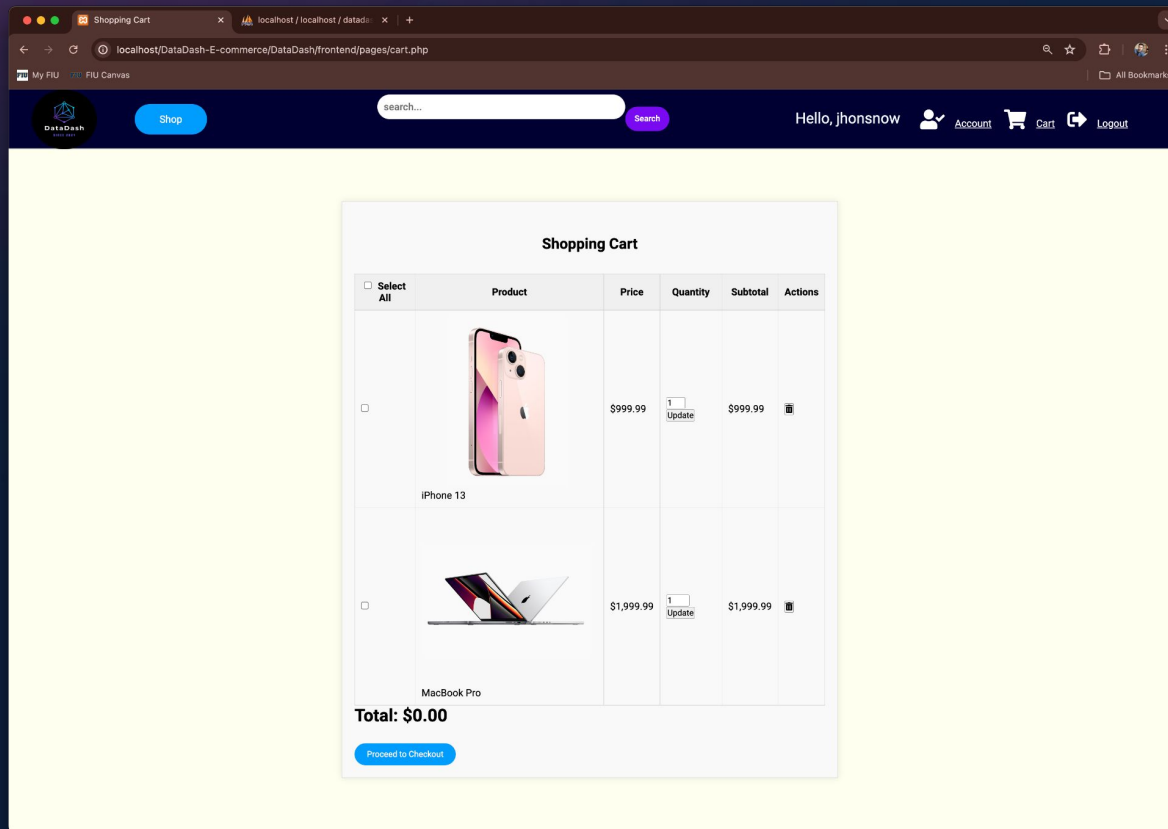
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Website

Shopping Cart and Order Checkout



Summary:

Building upon our expertise in software development, our team has taken significant strides in creating a cutting-edge e-commerce platform. Our current iteration focuses on the advancement of a comprehensive online shopping experience, with a particular emphasis on product information management, and order fulfillment. We have placed special attention on streamlining product discovery, simplifying checkout processes, and ensuring secure payment processing. Through these enhancements, we aim to set a new standard in E-commerce, providing a seamless and intuitive online shopping experience that drives business growth and customer satisfaction.