TRƯỜNG ĐẠI HỌC FPT

MOBILE SHOP MANAGEMENT

REPORT

TÊN: NGUYỄN ĐỨC HẢI

MSSV:QE180056

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I. Overview

1. Introduction

MobileShop is an advanced e-commerce platform designed to facilitate the browsing and purchasing of mobile phones and related accessories. The platform integrates several essential components to ensure a seamless user experience and robust administrative capabilities, all supported by a well-structured database:

1. **Accounts ([dbo].[Account]):** Manages user authentication with attributes for username and password.
2. **Categories ([dbo].[Categories]):** Stores the various product categories available in the shop, with attributes for ID and name.
3. **Orders ([dbo].[Orders]):** Records details of user orders, including username, idproduct, quantity, idcategories, name, address, phonenumber, note, status, amount, and date.
4. **Phone Categories ([dbo].[PhoneCategories]):** Details the different categories of phones available, with id and name.
5. **Phone Products ([dbo].[PhoneProduct]):** Contains comprehensive information about each phone product, such as id, name, image, price, display, f_camera, r_camera, chip, ram, rom, describe, and pcid.
6. **User Cart ([dbo].[UserCart]):** Represents the items users have added to their shopping cart, with attributes for username, idproduct, and idcategories.
7. **User Information ([dbo].[UserInformation]):** Stores personal details of users, including username, name, and phonenumber.

Key Features:

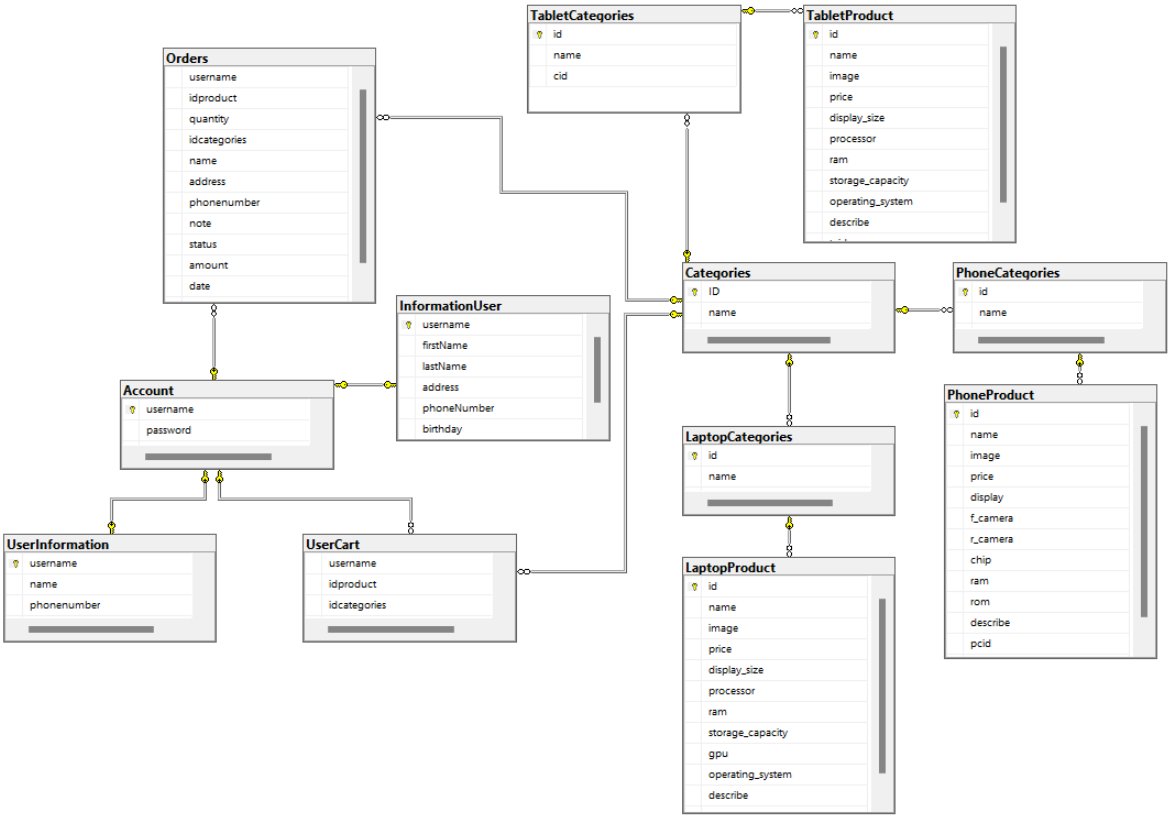
- **Product Browsing and Purchase:** Users can explore a wide range of mobile products, add desired items to their shopping cart, and complete transactions through the integrated VN-Pay API.
- **Order Management:** Upon purchase, detailed invoices are created and stored, which users can review at any time.

- **Admin Capabilities:** Administrators have enhanced functionalities such as adding or removing products and generating graphical reports through built-in analytics tools.
- **Address Integration:** The platform can fetch and display user address information through an API, enhancing the user experience by providing accurate delivery details.

With this robust setup, **MobileShop** ensures an efficient and user-friendly shopping experience while offering powerful tools for administrators to manage the platform effectively.

2. Database

Diagram of database



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3. MVC2 model

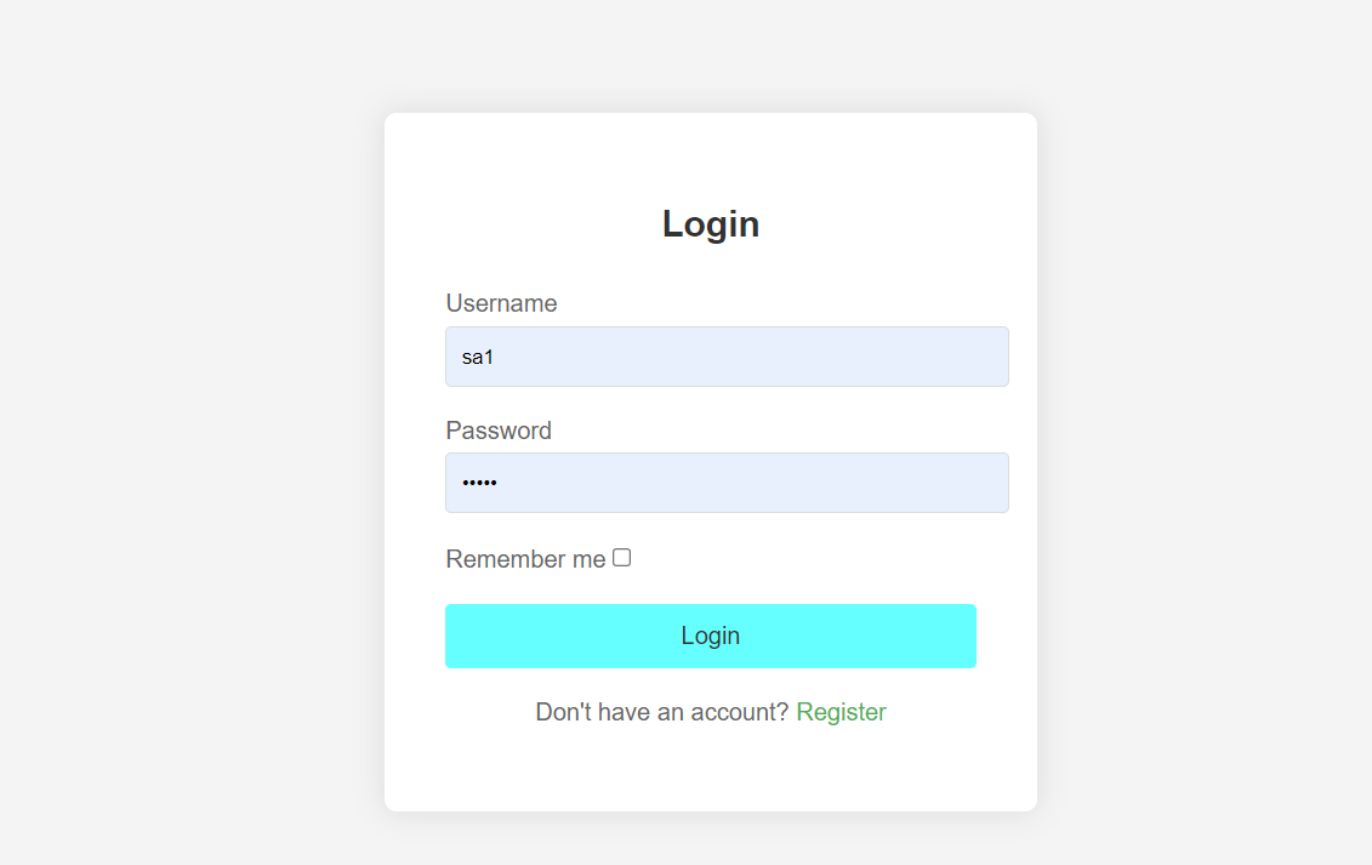
- **Model:** The model represents data structures. This includes classes like UserDTO, OrderDTO, and PhoneDTO, which map to the database tables ([dbo].[UserInformation], [dbo].[Orders], and [dbo].[PhoneProduct]). The model also includes Data Access Objects (DAOs) like UserDAO, OrderDAO, and PhoneProductDAO, which handle database operations.
- **View:** The view is responsible for rendering the user interface. In the application, this includes JSP files like user.jsp, order.jsp, and product.jsp. These files display data from the model to the user and capture user input.
- **Controller:** The controller handles user input and updates the model accordingly. In your application, this includes the following servlets:
    - **AddProductServlet.java:** Handles adding new products to the inventory.
    - **AddToCartServlet.java:** Manages adding items to the shopping cart.
    - **AdminServlet.java:** Controls administrative actions and interfaces.
    - **BuyServlet.java:** Manages the purchase process, initiating orders.
    - **CartServlet.java:** Handles operations related to the shopping cart, such as viewing and updating the cart.
    - **ChatEndpoint.java:** Manages real-time chat communications.
    - **CheckOutServlet.java:** Manages the checkout process, preparing the order for payment.
    - **CheckUsernameServlet.java:** Checks the availability of usernames during registration.
    - **DeleteProductServlet.java:** Handles deletion of products from the inventory.

- **DeleteUserServlet.java:** Manages the deletion of user accounts.
- **EditProductServlet.java:** Handles editing product details.
- **ErrorServlet.java:** Manages error handling and displays error messages.
- **HomeServlet.java:** Controls the home page view, displaying featured products and promotions.
- **LoginServlet.java:** Manages user login functionality.
- **LogoutServlet.java:** Handles user logout, invalidating the session.
- **MainController.java:** Acts as the central controller for routing requests to appropriate servlets.
- **OrderServlet.java:** Manages order creation and updates.
- **OrderViewServlet.java:** Provides views of order details for users.
- **PhoneProductServlet.java:** Handles operations related to phone products, such as listing and detail views.
- **ProcessVNPayPaymentServlet.java:** Manages the integration with VN-Pay API for processing payments.
- **ProfileServlet.java:** Manages user profile details and updates.
- **RegisterServlet.java:** Handles user registration, creating new accounts.
- **RemoveCartServlet.java:** Manages the removal of items from the shopping cart.
- **UpdateQuantityCartServlet.java:** Handles updating item quantities in the shopping cart.
- **UpdateUserServlet.java:** Manages updating user information and preferences.
- **VNPayReturnServlet.java:** Handles the return process and confirmation after VN-Pay payment.
- **ViewProductServlet.java:** Manages viewing detailed information of products.
- **PhoneServlet.java:** Handles phone-related operations, such as listing phones by category.

- **ProcessOrderServlet.java:** Manages order processing, including status updates and notifications.

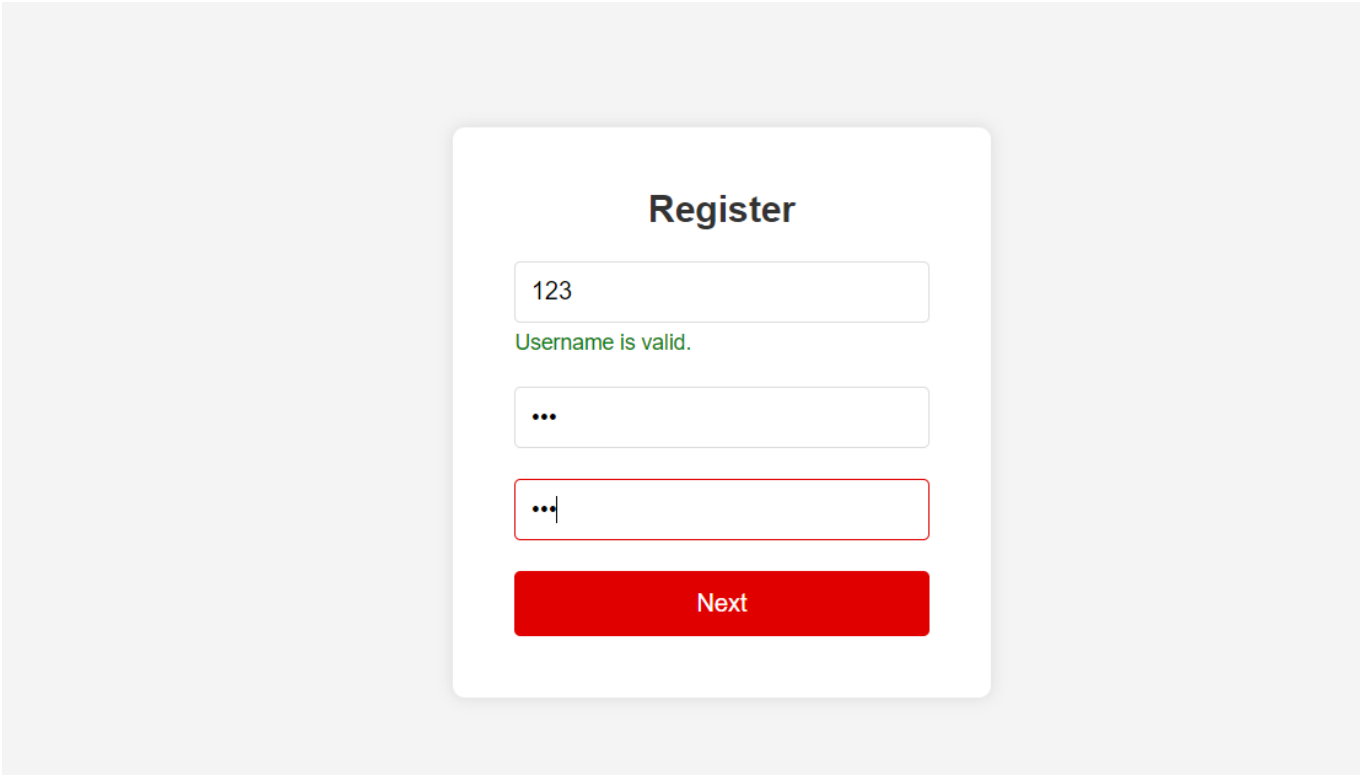
II. Functional Requirements

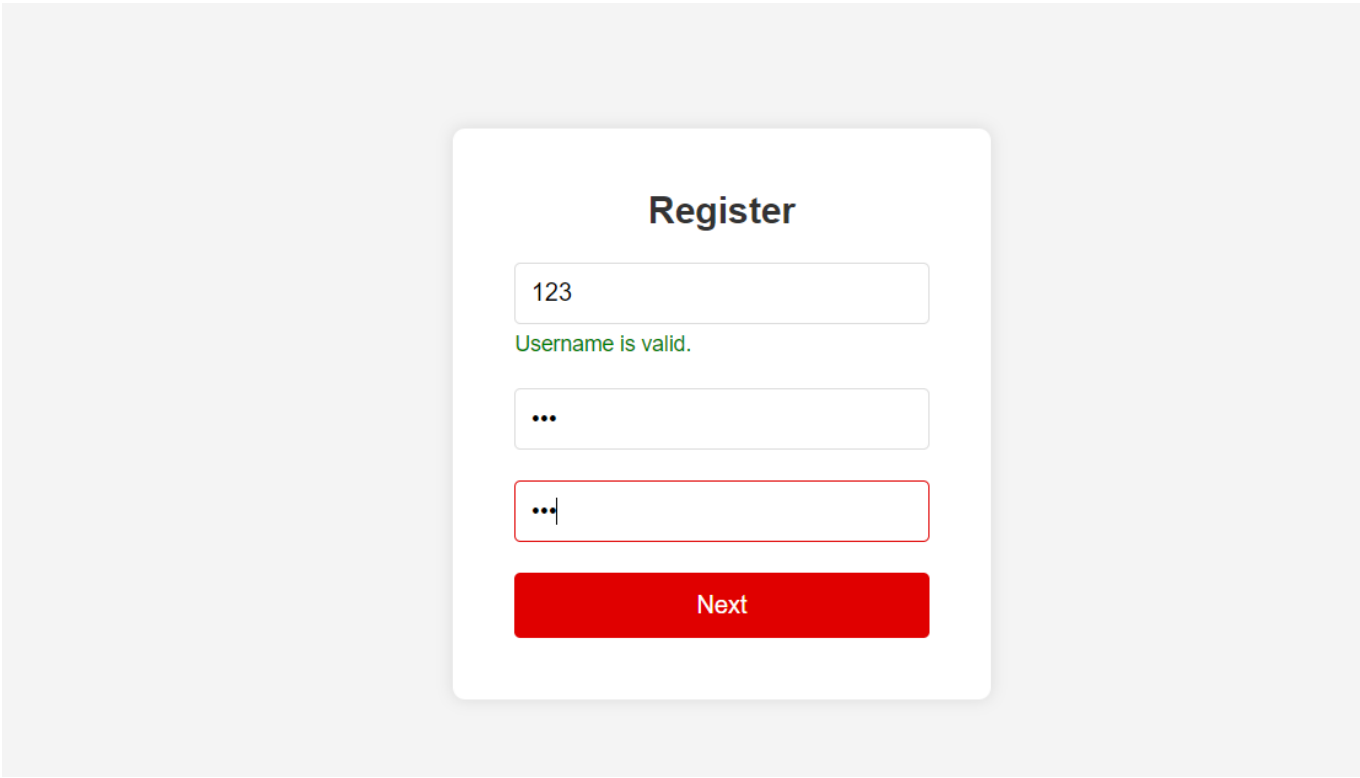
1. Login



2. Remember me use Cookie

3. Register use Ajax and Address API


Register
123
Username is valid.
Next


Register
123
Username is valid.
Next

4. Home

INUSHOPMOBILE
Hôm nay bạn muốn tìm gì??
Giỏ hàng
Đơn hàng
Khách Hàng
Hỏi đáp
Điện thoại
Laptop
Tablet
Phụ kiện
Đồng hồ
PC,Máy in
Redmi Note 13 Series
Đặt Trước Từ 5 - 15/1
Giảm Ngay
Trả Góp 0%
Bảo Hành
ĐẶT NGAY
Giảm Giá Mạnh
Phụ kiện
Giảm đến 50%
Giá chỉ từ 150.000đ
TẾT
GIẢM GIÁ MẠNH
Sắm LAPTOP CHẤT
Giảm đến 30%
Chỉ từ 2.990.000đ
TOP DEAL SỐC
--Hot sale Tết--
iPhone 15 Pro Max
Giá gốc: 34000000
Giá Giảm Giá: 32990000
Điện thoại iPhone 15 Pro Max 256GB
Giá gốc: 31000000
Giá Giảm Giá: 29000000
iPhone 15 Plus
Giá gốc: 27000000
Giá Giảm Giá: 25000000
Samsung S23 Ultra
Giá gốc: 27000000
Giá Giảm Giá: 25000000
iPhone 15
Giá gốc: 24000000
Giá Giảm Giá: 22000000
LAPTOP GAMING
7 NGÀY KNOCKOUT
GIẢM GIÁ MẠNH

Về chúng tôi

Chuyên cung cấp các sản phẩm điện thoại và laptop chính hãng với giá ưu đãi.

Cam kết chất lượng và dịch vụ hậu mãi tốt nhất.

Liên hệ

Hồ Chí Minh, Việt Nam

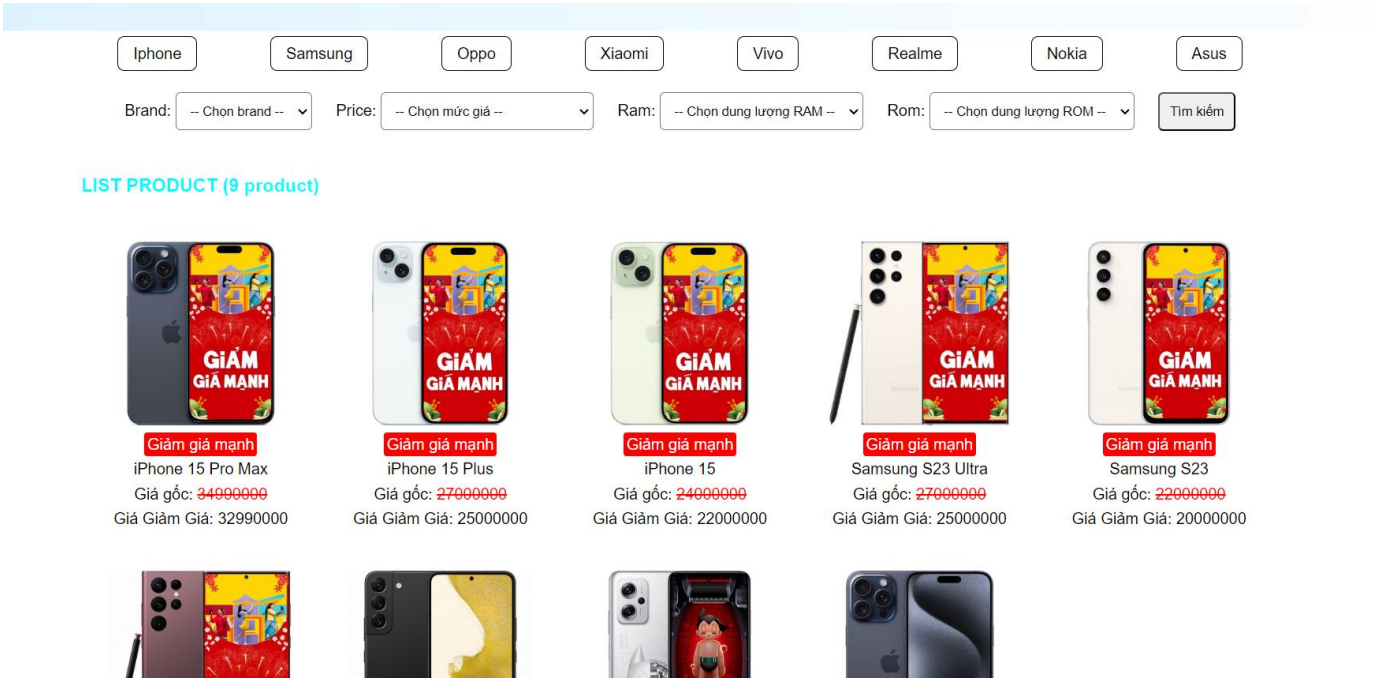
2403 2004

inushopmoblie@haitauhai.com

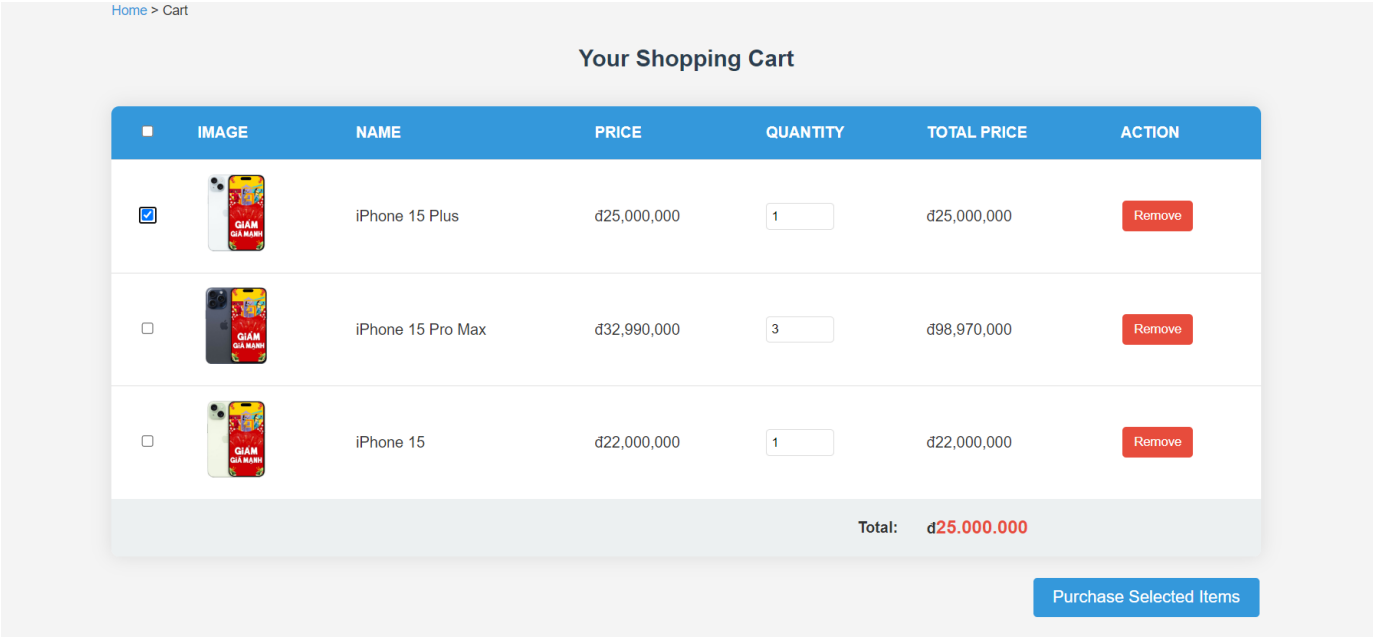
Theo dõi chúng tôi

© 2024 Inu Store.

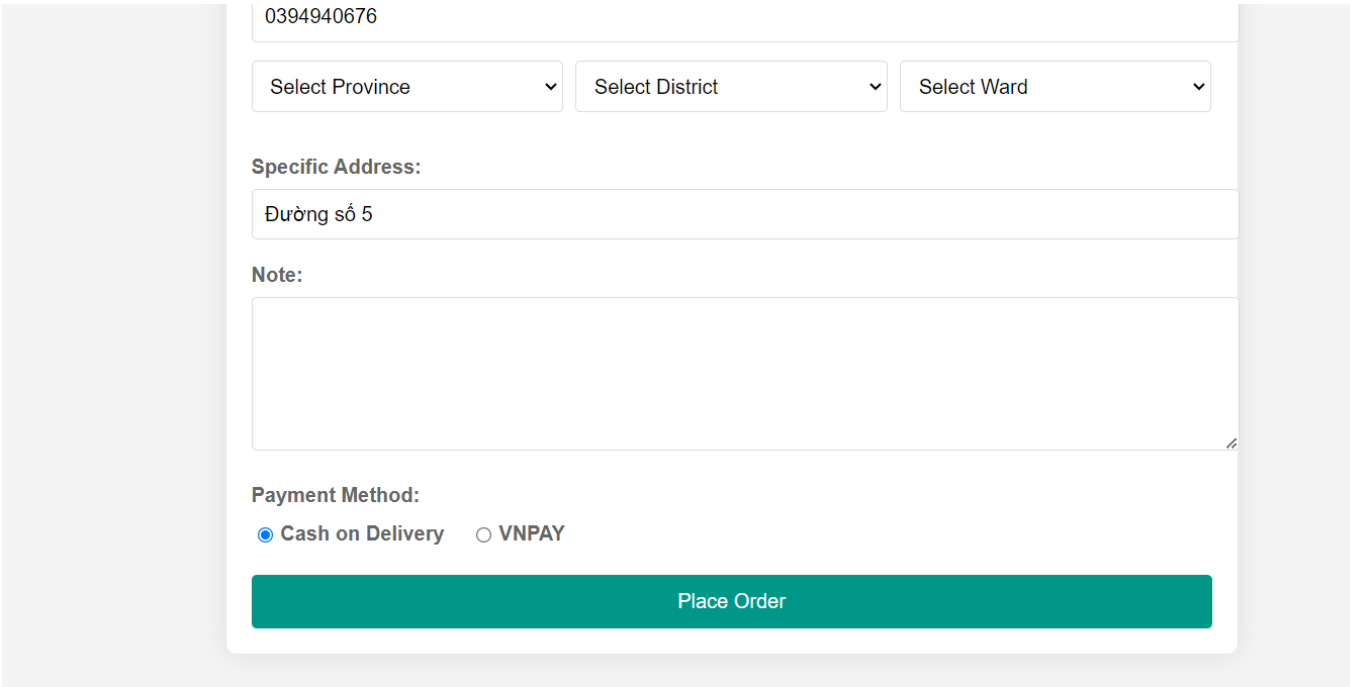
5. Phone Shop



6. Cart


Home > Cart
Your Shopping Cart
IMAGE
NAME
PRICE
QUANTITY
TOTAL PRICE
ACTION
iPhone 15 Plus
đ25,000,000
1
đ25,000,000
Remove
iPhone 15 Pro Max
đ32,990,000
3
đ98,970,000
Remove
iPhone 15
đ22,000,000
1
đ22,000,000
Remove
Total:
đ25.000.000
Purchase Selected Items

7. Check out


0394940676
Select Province
Select District
Select Ward
Specific Address:
Đường số 5
Note:
Payment Method:
Cash on Delivery
VNPAY
Place Order

0394940676

Select Province | Select District | Select Ward

Specific Address:

Đường số 5

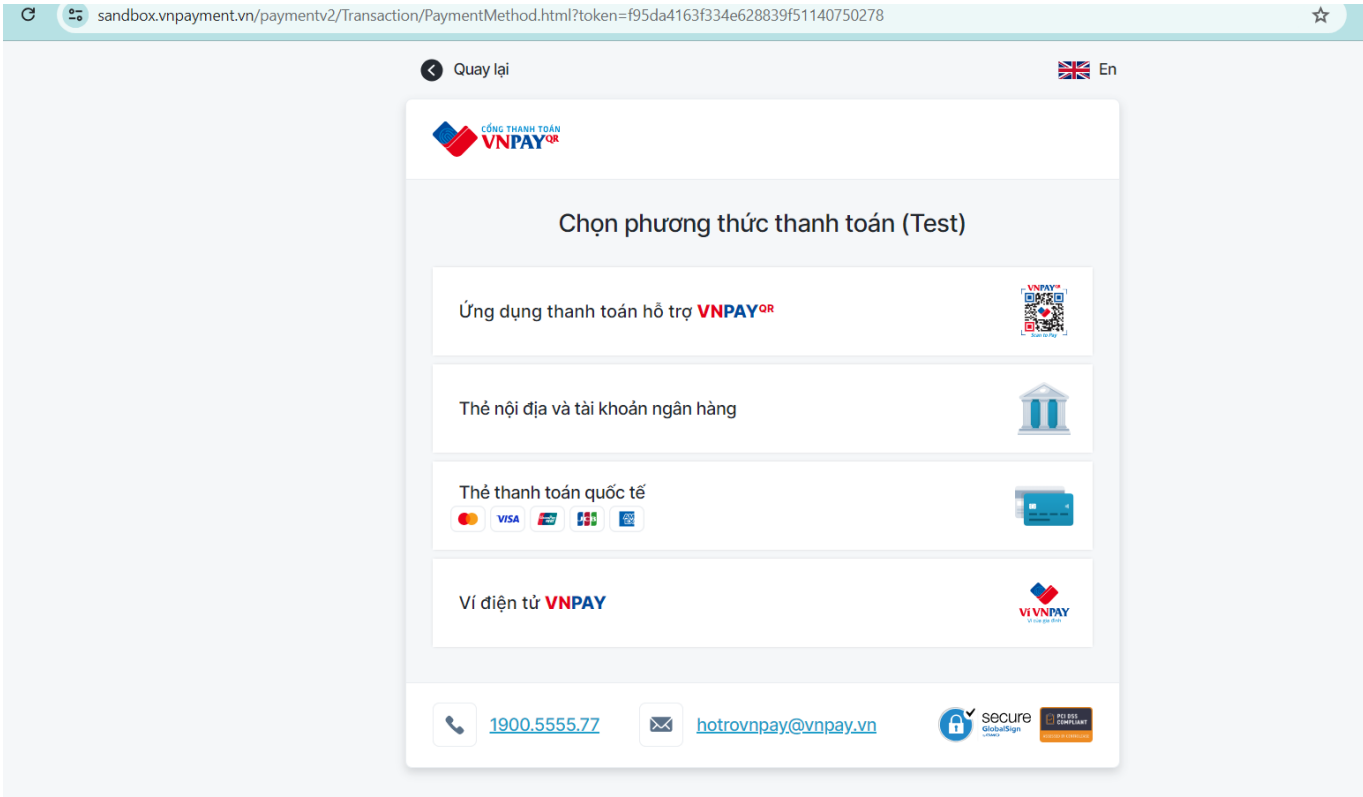
Note:

Payment Method:

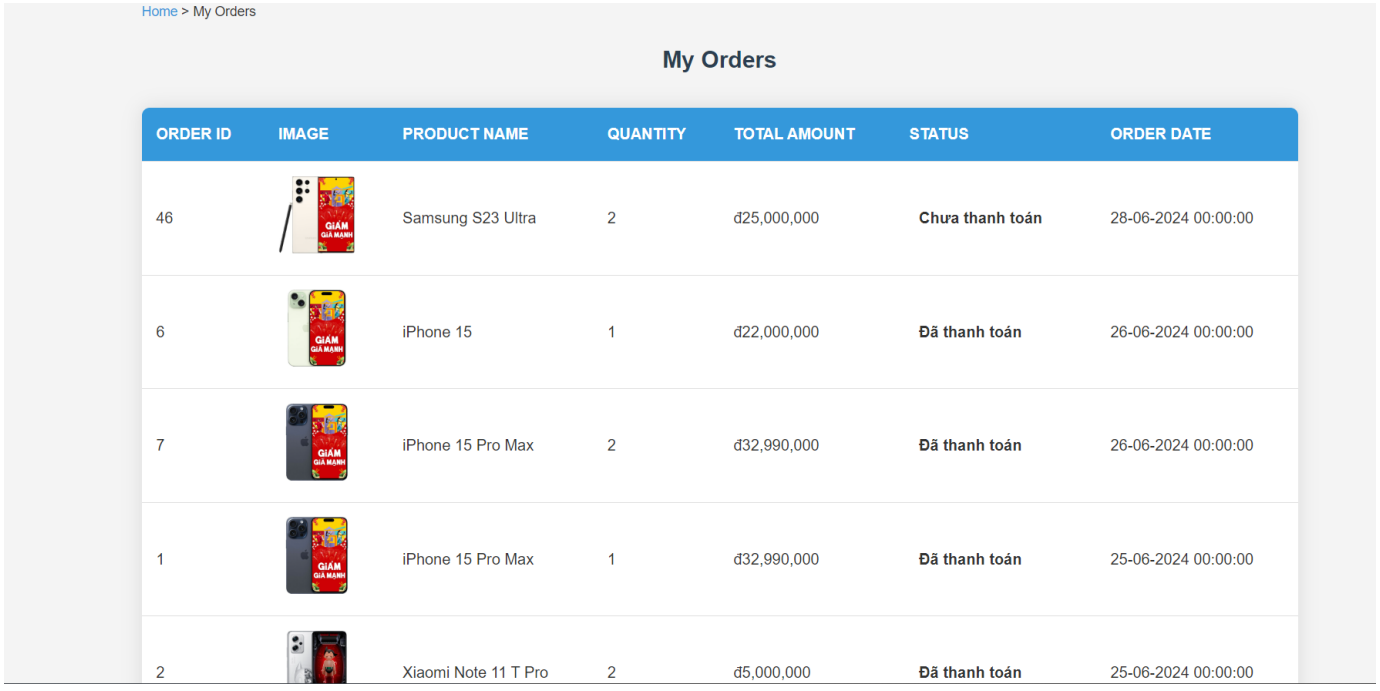
(•) **Cash on Delivery** ( ) **VNPAY**

Place Order

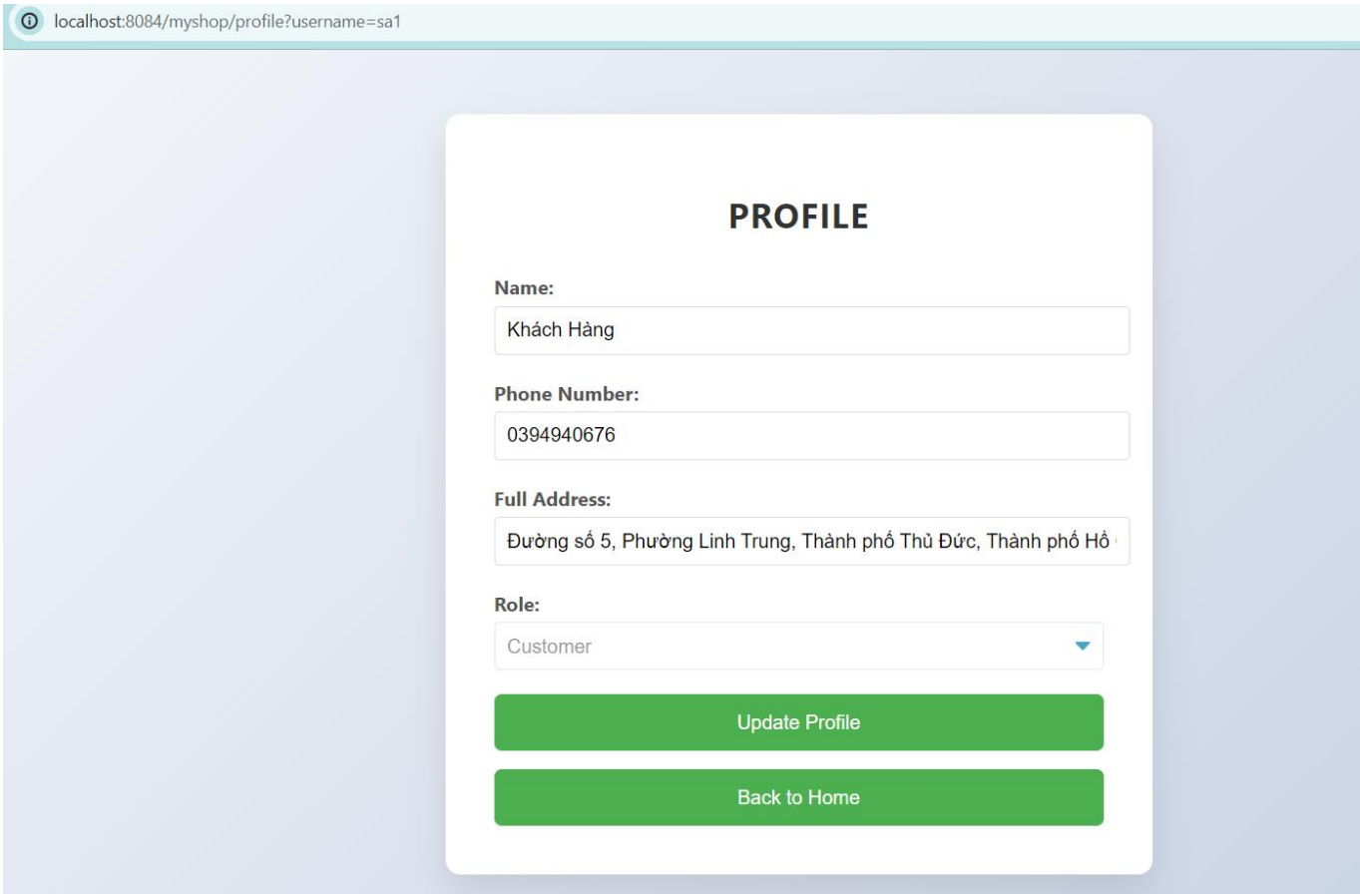
8. VNPAY



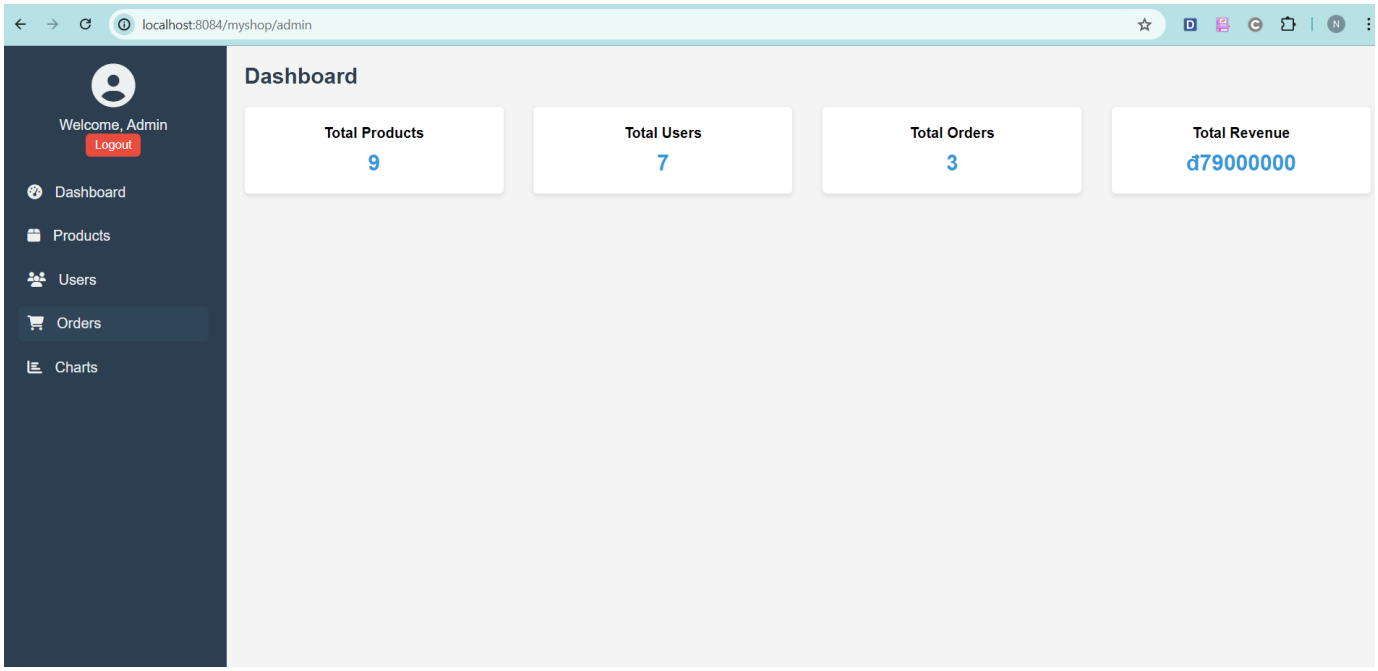
9. Order



10. Profile



11. Admin center



Welcome, Admin

Logout

- Dashboard
- Products
- Users
- Orders
- Charts

Products

Search products

Search

Add product

ID	Image	Name	Price	Stock	Actions
1		iPhone 15 Pro Max	32990000	99	Edit Delete View
2		iPhone 15 Plus	25000000	28	Edit Delete View
3		iPhone 15	22000000	19	Edit Delete View
4		Samsung S23 Ultra	25000000	148	Edit Delete View
5		Samsung S23	20000000	18	Edit Delete View
6		Samsung S22 Ultra	15000000	199	Edit Delete View
7		Samsung S22	12000000	54	Edit Delete View

Welcome, Admin

Logout

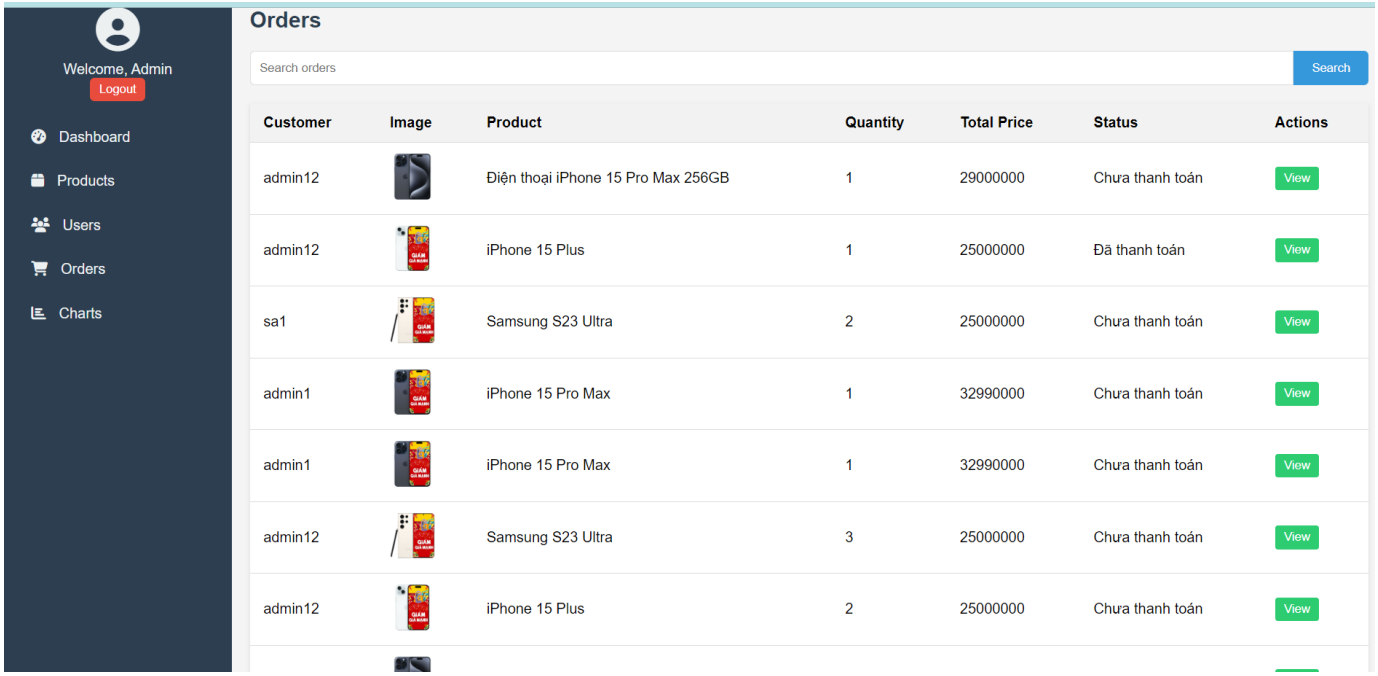
- Dashboard
- Products
- Users
- Orders
- Charts

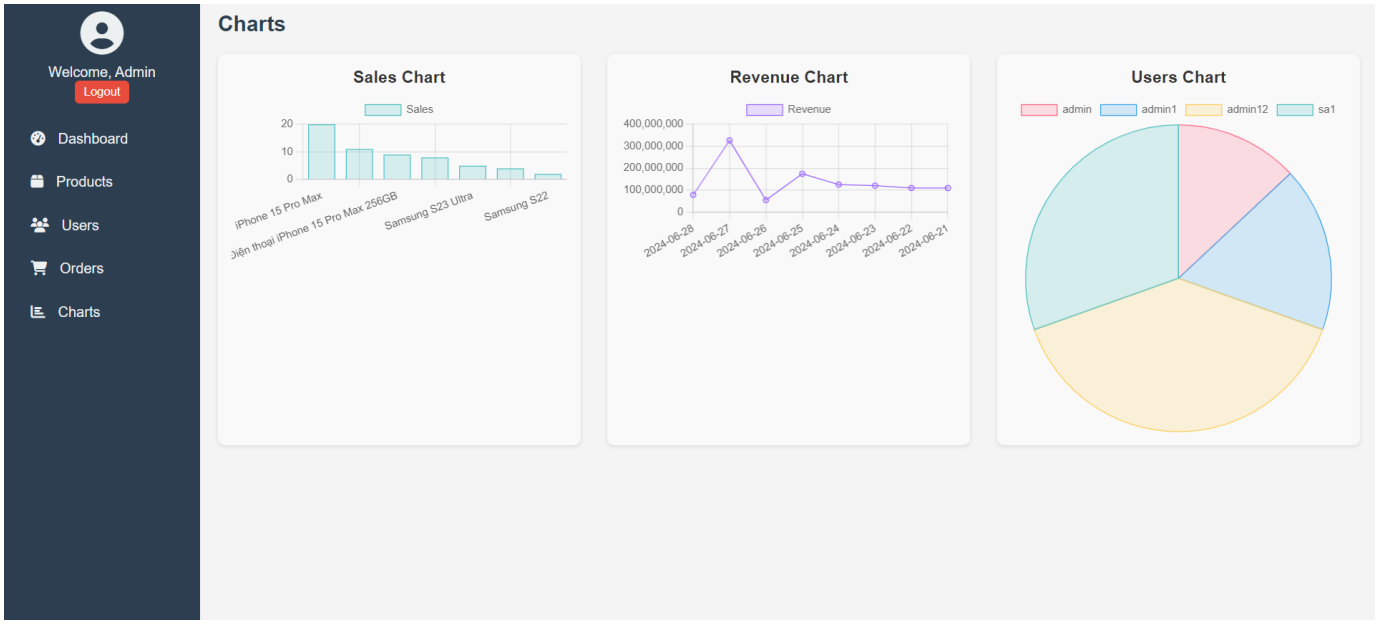
Users

Search users

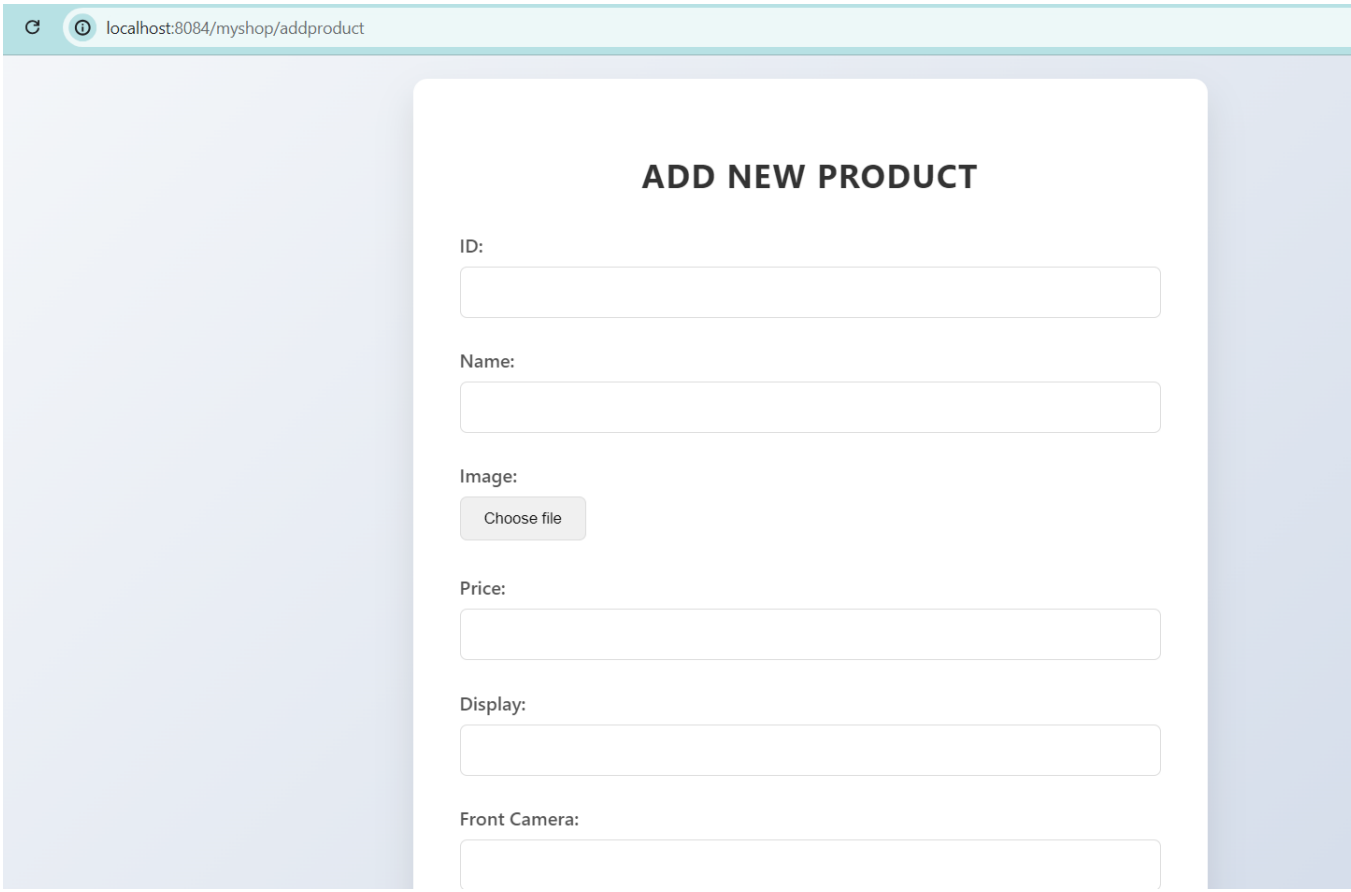
Search

ID	Name	Phone Number	Address	Role	Actions
admin	admin	123	TPHCM	1	Edit Delete
admin1	Nguyễn Đức Hải	0394940676	Đường số 5, Phường Linh Trung, Thành phố Thủ Đức, Thành phố Hồ Chí Minh	1	Edit Delete
admin12	KhachHang1	0394940676	đường số 5, Phường Bến Thành, Quận 1, Thành phố Hồ Chí Minh	1	Edit Delete
sa	Nguyễn Đức Hải	0394940676	Đường số 5, Phường Linh Trung, Thành phố Thủ Đức, Thành phố Hồ Chí Minh	3	Edit Delete
sa1	Khách Hàng	0394940676	Đường số 5, Phường Linh Trung, Thành phố Thủ Đức, Thành phố Hồ Chí Minh	3	Edit Delete
sa3	KhachHang1	0394940676	đường số 5, Phường 12, Quận 8, Thành phố Hồ Chí Minh	3	Edit Delete
sa4	KhachHang1	0394940676	đường số 5, Phường Bình Hưng Hoà A, Quận Bình Tân, Thành phố Hồ Chí Minh	3	Edit Delete

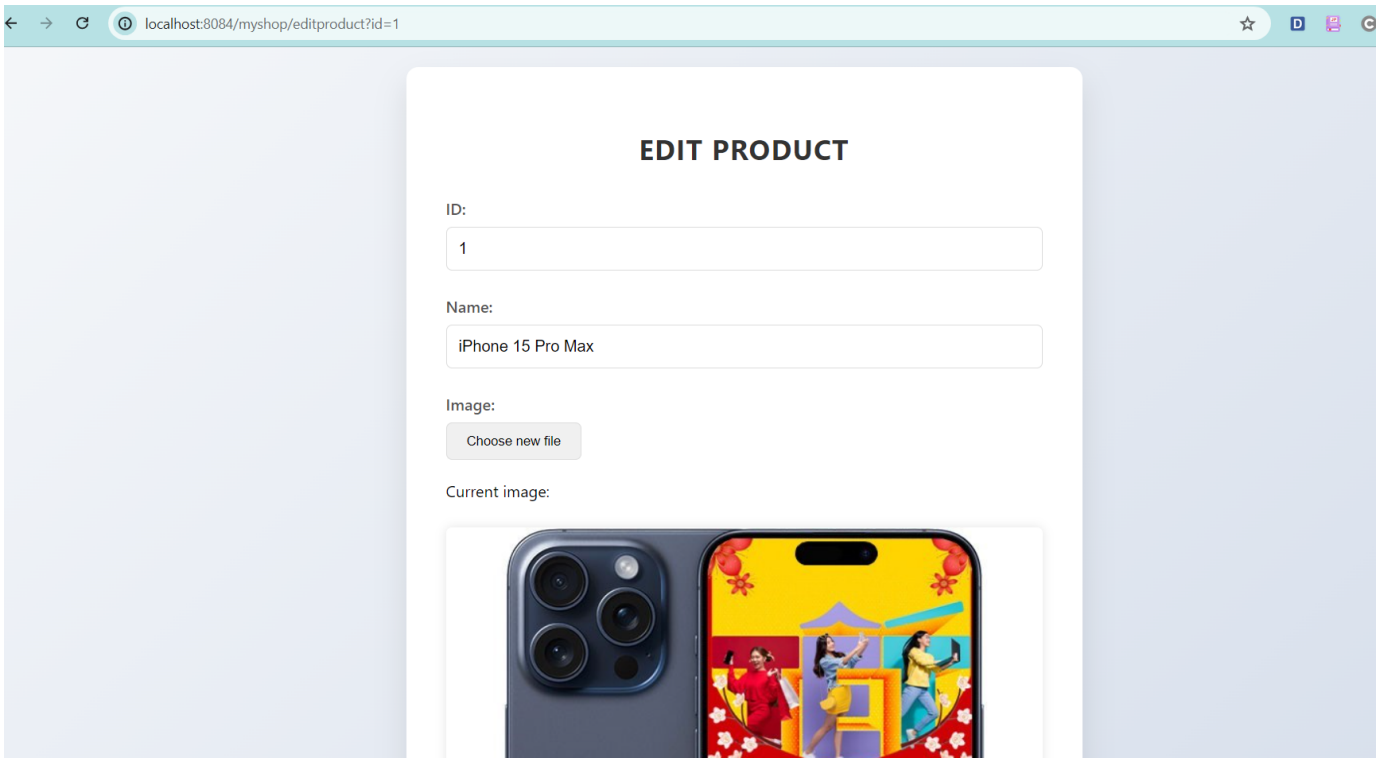




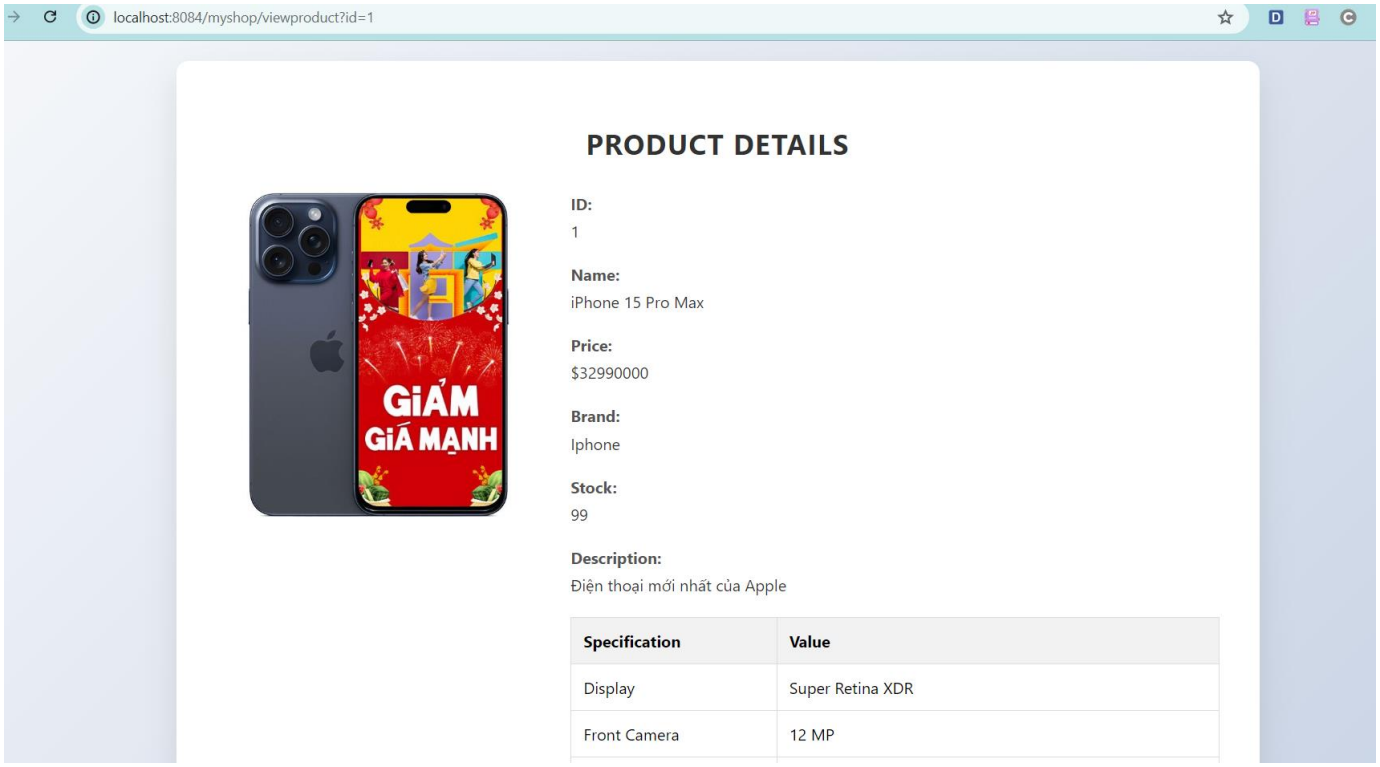
12. Add product



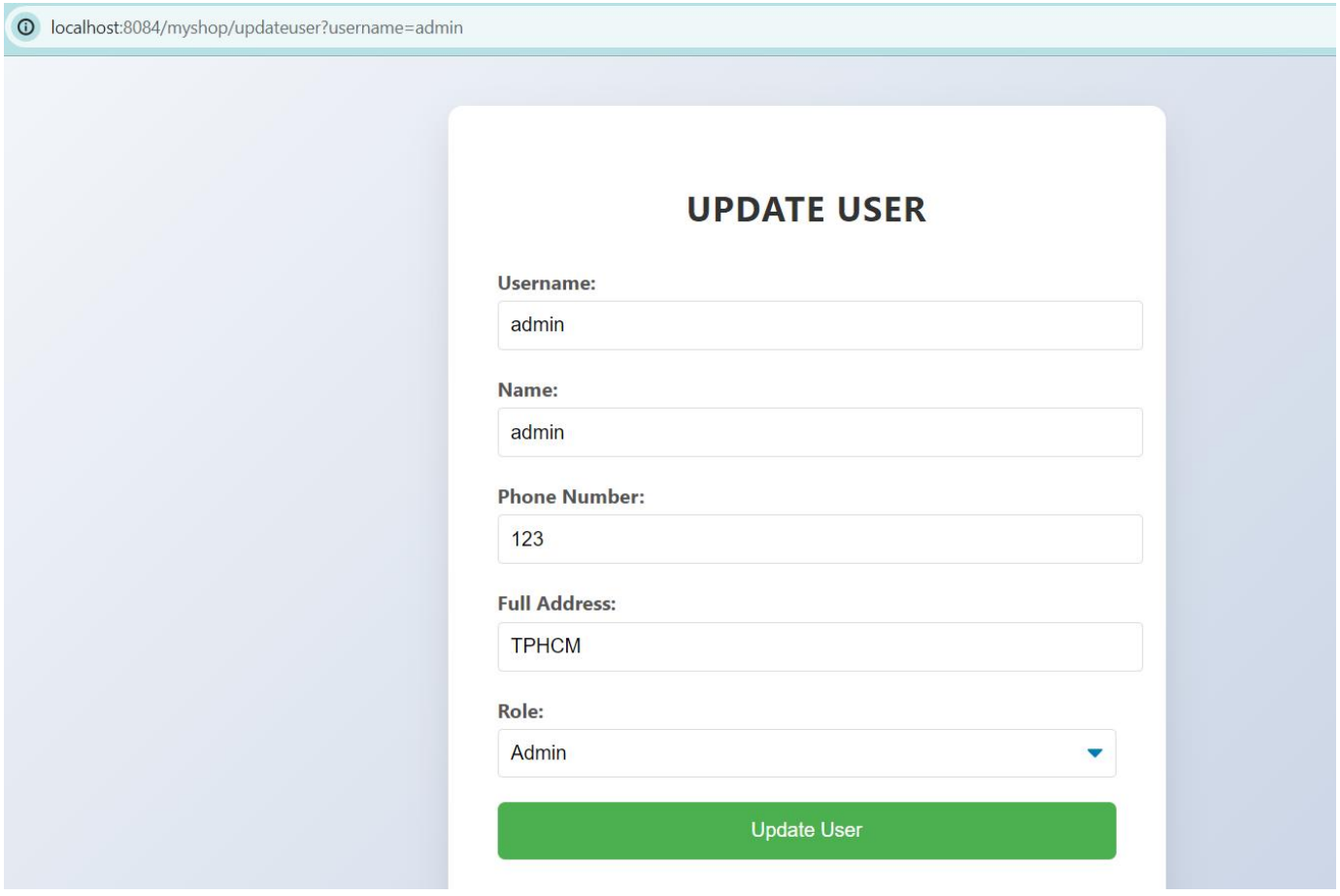
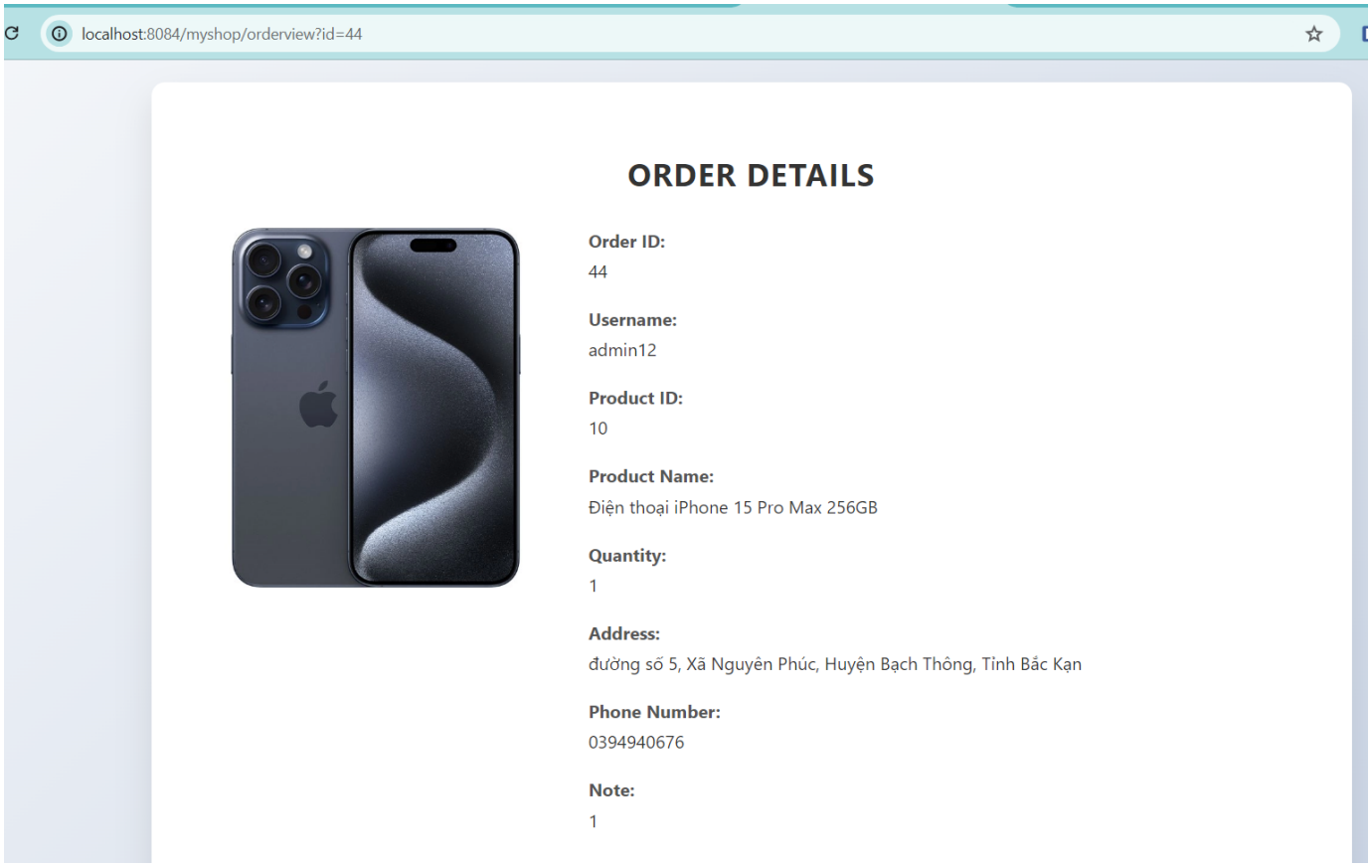
13. Edit product



14. View prouduct



15. Edit user



16. View order