

Introduction / 介绍

To experience the Windows client of this project, navigate to the `build/windows` folder inside the `main` directory and double-click `main.exe`. This will launch the Windows client of the project.

若要体验本项目的 Windows 客户端，请进入 `main` 文件夹中的 `build/windows` 文件夹，然后双击 `main.exe`。即可启动本项目的 Windows 客户端。

- **Note:** The backend database of this project is fully deployed on a cloud server. Therefore, you do not need to set up any databases or data on your local machine to experience the complete functionality of this project.

注意：本项目的后端数据库完全部署在云服务器上，因此，您无需在本机环境上准备任何数据库或数据，即可体验本项目的完整功能。

- **Tip:** Since the project's database is deployed on Microsoft's Azure cloud server, the application may take a longer time to load in certain situations (up to 10 seconds, especially when users open the orders page). Therefore, if the application does not respond immediately after clicking a button, please wait patiently for a few seconds.

提示：由于本项目的数据库部署在微软 Azure 云端服务器上，因此，在某些情况下（尤其是当用户打开订单页面时），应用程序将需要较长的时间加载（最多可能 10 秒钟）。因此，当您点击某个按钮时，如果应用程序没有立即响应，请耐心等待几秒钟。

- **Administrator Account Reminder:** Direct registration of administrator accounts is not allowed on the frontend. To experience administrator features, please use the built-in administrator account and password:

提醒：由于不允许在前端中直接注册管理员账号，因此，若要体验管理员功能，请使用内置的管理员账号和密码：

- **Username:** admin
- **Password:** admin

- **Security Caution:** For the completeness of the code functionality, the `DataModel.py` file contains my cloud database password in plain text. To ensure the security of my database, please make sure to remove the corresponding information from the `DataModel.py` file if you intend to publish or distribute this code.

安全性提醒：为了代码功能的完整性，我在名为 `DataModel.py` 的代码文件中明文引用了我的云端数据库（私人购买）的密码。为了保证我的数据库的安全性，若您要公开或传播此代码，请务必从 `DataModel.py` 文件中抹去相应信息。

User Guide / 操作指引

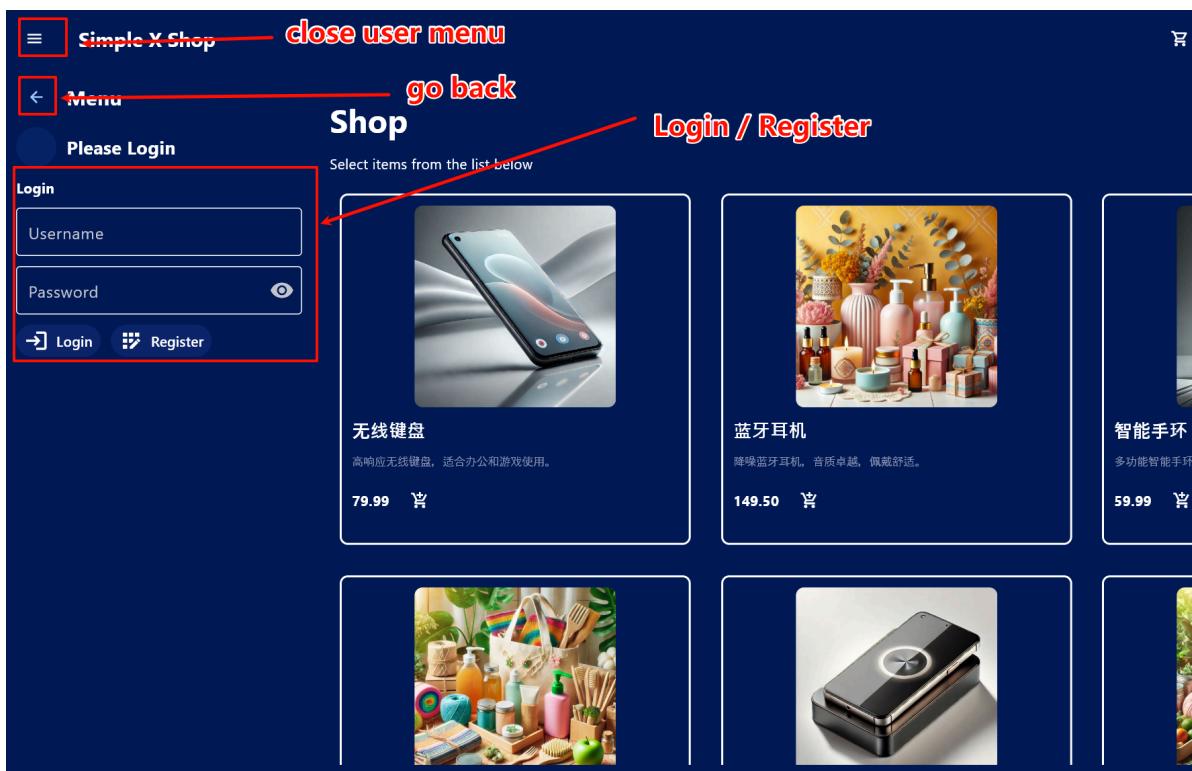
Launching the Application



- **Home Page:** Upon launching the application, you will see the home page displaying various products available for purchase.

起始页面：启动应用程序后，您将看到显示各种可购买商品的首页。

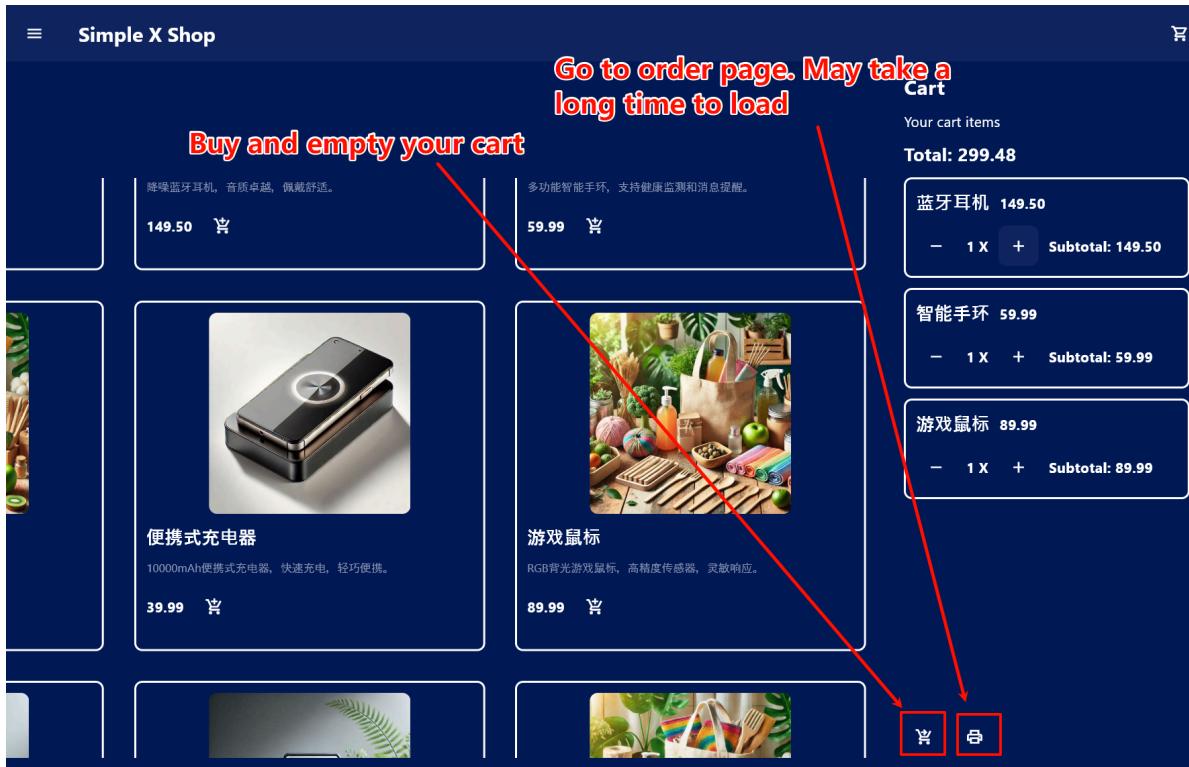
Main Page



- **Description:** The main page displays all product data, including product names, descriptions, prices, and images, which are stored in a cloud database or cloud-based image hosting service.

描述: 主页面展示所有商品数据，包括商品名称、描述、价格和图片，这些数据存储在云端数据库或云端图床中。

Menu Interaction



- **Action:** Clicking the menu button at the top left corner.

操作: 点击左上角的菜单按钮。

- **Result:** A login panel will pop up on the left side of the main interface.

结果: 将在主界面的左侧弹出登录栏。

- **User Options:** Enter existing credentials or register a new account.

用户选项: 输入已有的账号和密码或注册一个新账号。

- **Navigation:** Click the back button at the top left of the login panel to return to the previous page.

导航: 点击登录栏左上角的返回按钮，返回到上一级页面。

Post-Login Interface

The screenshot shows a dark blue-themed interface for a shop. On the left, a sidebar displays a user profile with the message "Hello! admin". The sidebar includes links for "Menu", "Order", "Logout", "Help", and "Admin", with "Admin" being highlighted by a red box and arrow. The main area is titled "Shop" and contains a heading "Select items from the list below". Below this are five product cards:

- 无线键盘**: An image of a black keyboard, priced at 79.99. Description: 高响应无线键盘，适合办公和游戏使用。
- 蓝牙耳机**: An image of a pink and white speaker system, priced at 149.50. Description: 降噪蓝牙耳机，音质卓越，佩戴舒适。
- 智能手环**: An image of a black smartwatch, priced at 59.99. Description: 多功能智能手环，。
- 居家用品**: An image of various home goods like soaps and brushes.
- 充电宝**: An image of a black power bank.

- **Description:** After logging in, the login panel updates to reflect the user's status. The interface adapts based on the user's permissions.

描述：用户登录后，登录栏会更新以反映用户的状态。界面根据用户的权限进行适配。

Shopping Cart Interaction

The screenshot shows a light blue-themed interface for a shop. On the left, a sidebar displays a message "Please Login" and a "Login" form with fields for "Username" (containing "admin") and "Password" (containing "admin"), both highlighted by a red box and arrow. The main area is titled "Shop" and contains a heading "Select items from the list below". Below this are five product cards:

- 无线键盘**: An image of a black keyboard, priced at 79.99. Description: 高响应无线键盘，适合办公和游戏使用。
- 蓝牙耳机**: An image of a pink and white speaker system, priced at 149.50. Description: 降噪蓝牙耳机，音质卓越，佩戴舒适。
- 智能手环**: An image of a black smartwatch, priced at 59.99. Description: 多功能智能手环，。
- 居家用品**: An image of various home goods like soaps and brushes.
- 充电宝**: An image of a black power bank.

- **Action:** After logging in and selecting products, clicking the shopping cart button at the top right corner.

操作：用户登录并挑选商品后，点击右上角的购物车按钮。

- **Options:**

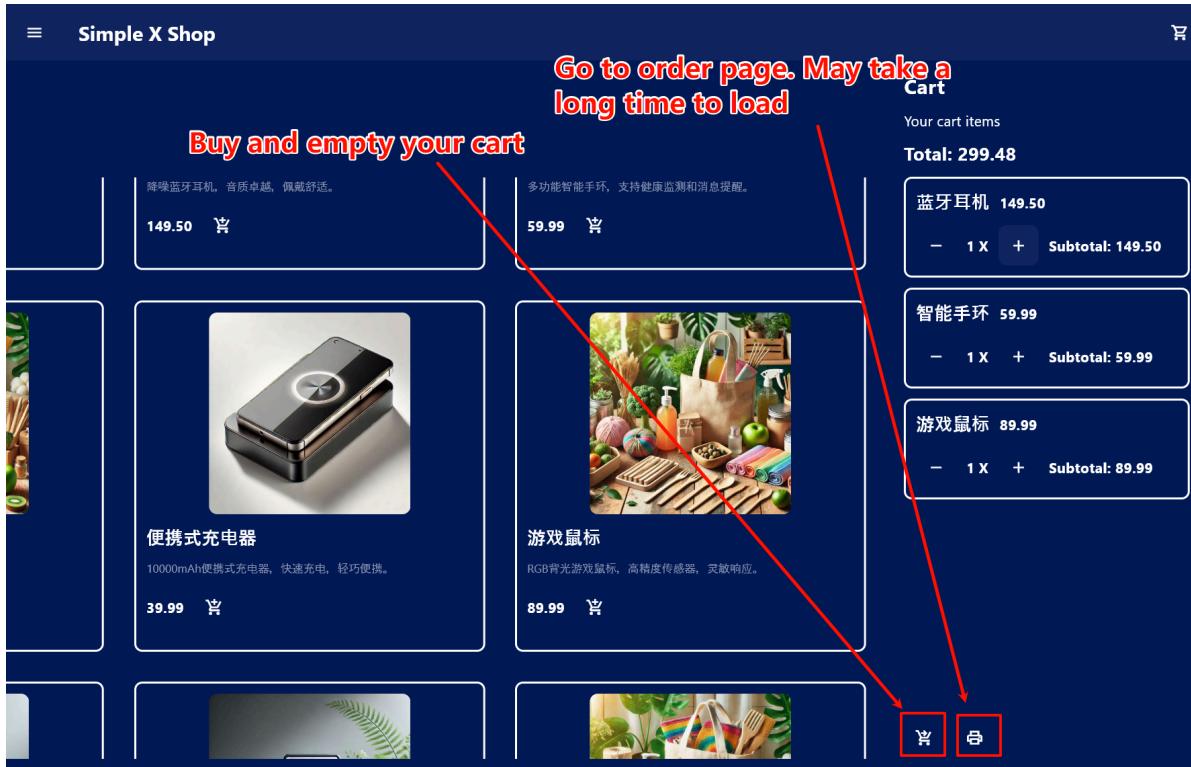
- **Left Button:** Submit the cart contents to an order, which also clears the user's cart.

左侧按钮：将购物车中的内容提交为订单，同时清空用户的购物车。

- **Right Button:** Navigate to the orders page.

右侧按钮：进入订单页面。

Orders Page



- **Description:** Users can view their order information and order details here. They can apply for a refund by clicking the "Request Refund" button. After the refund request is processed by an administrator, users can view the administrator's reason for processing.

描述：用户可以在此查看他们的订单信息和订单详细信息。通过点击“Request Refund”按钮，用户可以为某个订单申请退款。当用户的退款申请被管理员处理后，用户可以查看管理员处理的理由。

Refund Request Interface

The screenshot shows a dark-themed web application for managing orders. At the top, it says "Simple X Shop". Below that, a section titled "Your Orders" displays a list of seven orders. Order ID 9 is currently selected, and a modal window is open over the list. The modal has a title "Please enter the reason for refund" and a text input field labeled "Enter reason". At the bottom of the modal are two buttons: "Submit" with a checkmark icon and "Cancel" with a cross icon.

Order ID	Date	Total	Status
Order ID: 9	2024-12-21 17:27:15	\$209.97	Pending
智能手环	unit price: \$59.99	subtotal: \$119.98	
游戏鼠标	unit price: \$89.99	subtotal: \$89.99	
Order ID: 8	2024-12-20 20:06:04		Canceled
Order ID: 7	2024-12-20 20:04:15		Canceled
Order ID: 6	2024-12-20 20:06:04	\$59.99	Refund
Order ID: 5	2024-12-20 20:04:15	\$59.99	Pending
Order ID: 2	2024-12-20 13:19:33	\$299.48	Pending
Order ID: 1	2024-12-20 13:16:27	\$1179.91	Pending

- **Action:** User initiates a refund request for a specific order.

操作: 用户针对某个订单发起退款申请。

- **Requirement:** Users need to provide a reason for requesting a refund.
 - 需求:** 用户需要填写申请退款的理由。

Post-Refund Processing Interface

The screenshot shows the same dark-themed web application after an administrator has processed a refund. Order ID 7 is now listed as "Order Canceled". A modal window is open, titled "Admin Reason", displaying the message "Reason: no, reject". At the bottom of the modal is a button labeled "OK" with a checkmark icon. Below the modal, there is a "Request Refund" button with a credit card icon and a "View Admin Reason" link.

Order ID	Date	Total	Status
Order ID: 7	2024-12-20 20:06:49	\$59.99	Canceled
智能手环	unit price: \$59.99	quantity: 1	subtotal: \$59.99
Order ID: 6	2024-12-20 20:06:49		Refund
Order ID: 5	2024-12-20 20:04:15	\$59.99	Pending
智能手环	unit price: \$59.99	quantity: 1	subtotal: \$59.99
Order ID: 2	2024-12-20 13:19:33	\$299.48	Pending
Order ID: 1	2024-12-20 13:16:27	\$1179.91	Pending

- **Description:** After an administrator processes a user's refund request, the user can view the administrator's reason for processing.

描述: 当管理员处理用户的退款申请后，用户可以查看管理员处理的理由。

Administrator Login Interface

The screenshot shows the administrator login interface with a dark blue header. The header includes a menu icon, the shop name "Simple X Shop", a user icon with "Hello! admin", and a shopping cart icon. Below the header is a sidebar with navigation links: "Admin", "Order", "Logout", "Help", and "Admin". The main content area is titled "Shop" and contains a sub-instruction "Select items from the list below". There are four product cards displayed in a grid:

- 无线键盘**: An image of a sleek black keyboard. Description: "高响应无线键盘，适合办公和游戏使用。" Price: 79.99.
- 蓝牙耳机**: An image of a pink and white Bluetooth speaker system. Description: "降噪蓝牙耳机，音质卓越，佩戴舒适。" Price: 149.50.
- 智能手环**: An image of a black smartwatch. Description: "多功能智能手环，" Price: 59.99.
- 其他产品**: A partially visible card showing a collection of eco-friendly products like reusable bags and containers.

- **Action:** When the administrator logs in.

操作: 当管理员登录后。

- **Result:** The "Admin" option appears at the bottom of the login panel, allowing the administrator to access the management page.

结果: “Admin”选项出现在登录栏的底部，管理员可以点击该选项进入管理页面。

Management Page

The screenshot shows a dark-themed management interface for 'Simple X Shop'. At the top, it says 'Manage user refund requests' and 'Review and process refund requests submitted by users'. Below this, there's a table with three rows of refund requests:

Order ID: 3	Name: user3	Date: 2024-12-21 19:29:17	Total: \$299.00	Status: Refund	▼
Order ID: 4	Name: user3	Date: 2024-12-21 19:28:58	Total: \$209.49	Status: Refund	^
Order ID: 6	Name: user	Date: 2024-12-21 15:30:36	Total: \$59.99	Status: Refund	▼

For Order ID 4, a modal window is open asking 'Reason for Refund:' with the input field containing 'please, i want to refund'. It also includes 'Approve' and 'Reject' buttons.

- **Description:** Administrators can view and manage users' refund requests here.

描述：管理员可以在此查看和管理用户的退款请求。

Refund Processing Interface

The screenshot shows the same management interface as above, but with a processing dialog over the second row. The dialog title is 'Please enter the reason for the processing' with a placeholder 'Enter reason'. The input field contains 'ok, you can refund'. At the bottom of the dialog are 'Submit' and 'Cancel' buttons.

- **Action:** When an administrator processes a refund request.

操作：当管理员处理某个退款请求时。

- **Requirement:** Administrators need to provide a reason for processing.

| **需求**: 管理员需要填写处理原因。