

# Inventory Management & Analytics System

## Overview

This project is an Inventory Management and Analytics System built with PyQt and MySQL. It provides a comprehensive solution for managing inventory, orders, and users, along with a suite of analytics reports for sales performance, market trends, and product insights. The system includes separate interfaces for administrators and customers, covering features such as user authentication, order management, dashboards, and detailed reporting.

## Directory Structure

```
InventoryManagementAnalytics/
```

```
    ├── admin/
    |    ├── admin_management.py
    |    ├── brand_supplier_product_management.py
    |    ├── inventory_management.py
    |    ├── order_management.py
    |    └── user_management.py
    ├── analytics_report/
    |    ├── customer_orders.py
    |    ├── market_trends.py
    |    ├── product_insights.py
    |    ├── sales_performance.py
    |    └── stock_analysis.py
    ├── auth/
    |    ├── login.py
    |    └── register.py
    ├── config/
    |    ├── config.py
    |    └── settings.py
    ├── customer_site/
    |    ├── address_management.py
```

```
|   └── my_account.py  
|   └── orders.py  
|   └── order_history.py  
└── dashboard/  
    ├── admin_dashboard.py  
    └── customer_dashboard.py  
└── database/  
    └── database.py  
└── styles/  
    └── app_styles.qss  
└── main.py  
└── main_window.py
```

## Installation and Setup

1. Copy and extract the file:

```
cd InventoryManagementAnalytics
```

2. Create a virtual environment and activate it:

```
python -m venv ./venv  
source ./venv/bin/activate
```

3. Install dependencies:

```
pip install -r requirements.txt
```

4. Environment Variables:

Create a .env file in the project root with the following variables:

```
DB_USER=your_username  
DB_PASSWORD=your_password  
DB_HOST=your_host  
DB_NAME=your_database
```

5. Stylesheet:

The application uses a custom QSS stylesheet located at styles/app\_styles.qss. You can modify this file to change the UI appearance.

## Configuration

- config/config.py:  
Contains constants for window geometry:

```
WINDOW_X = 100
WINDOW_Y = 100
WINDOW_WIDTH = 1440
WINDOW_HEIGHT = 900
```
- config/settings.py:  
Defines the base directory and provides a function to load the application's QSS stylesheet.

## Database Connection

- database/database.py:  
Implements a Singleton DatabaseConnection class that manages the MySQL connection.
  - It loads configuration from environment variables.
  - Provides methods to get, close, and execute queries on the database.

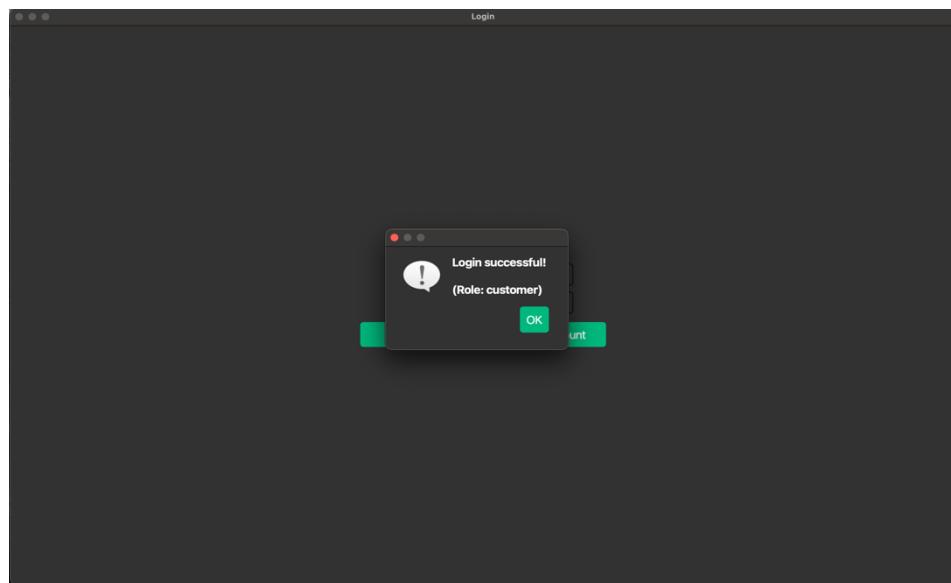
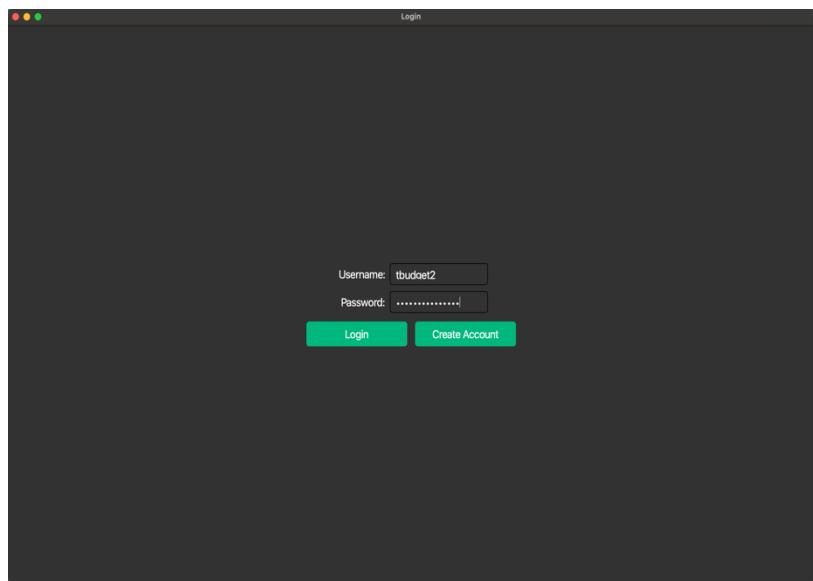
## Running the Application

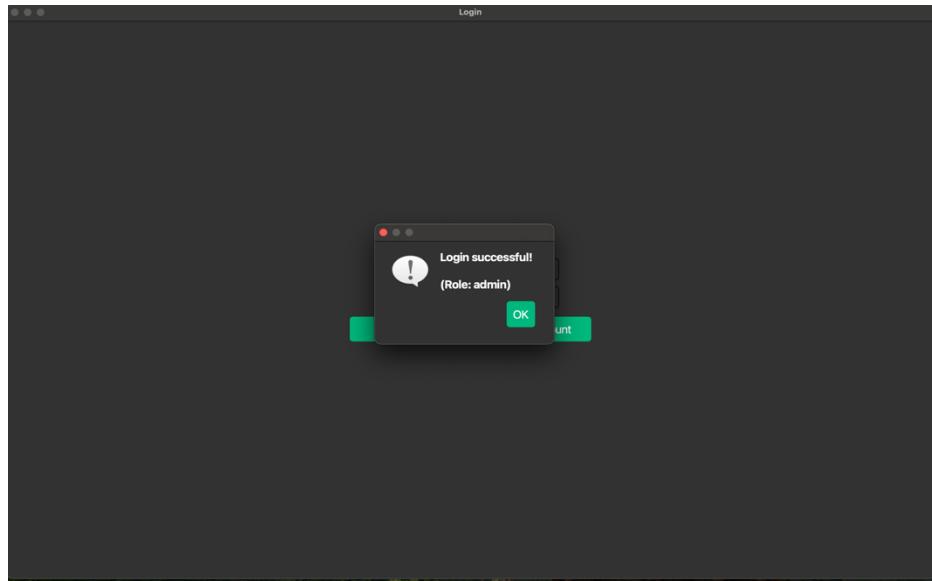
- To start the application, run:
  - python main.py
- This launches the login window, from which users can either log in or create a new account. Once logged in, the appropriate dashboard is displayed based on the user's role.

## Authentication (auth)

### Login(login.py)

The code implements a user login interface using PyQt. It allows users to enter their username and password, log in to the system, and optionally navigate to a registration screen if they don't have an account. Based on the user's role, it then redirects to either an admin or customer dashboard.





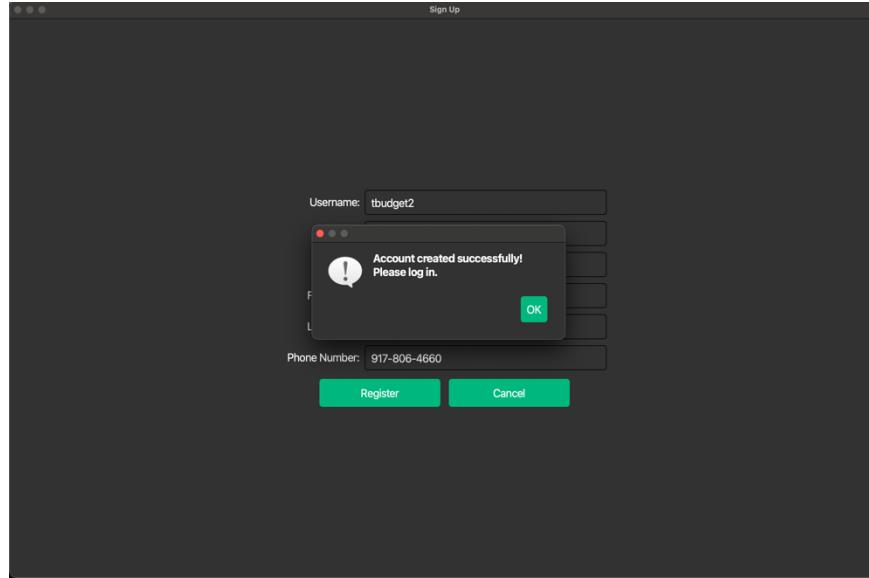
## Create Account(register.py)

Provides a registration interface for new users. It collects user details (username, password, email, first name, last name, phone number), validates them, and creates a new user record in the database.

A screenshot of a "Sign Up" registration form. The form has a dark background with light-colored input fields. The fields and their values are:

- Username: tbudget2
- Password: (redacted)
- Email: tbudget2@state.gov
- First Name: Torey
- Last Name: Budget
- Phone Number: 917-806-4660

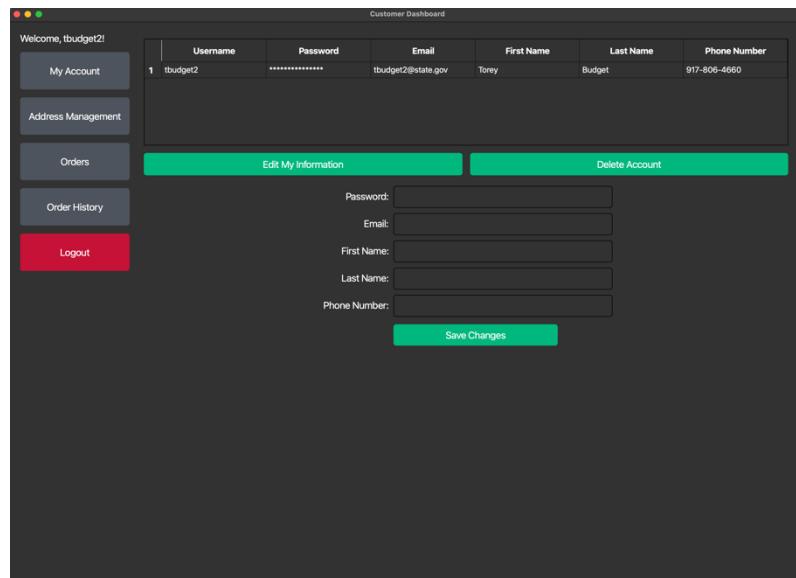
At the bottom of the form are two buttons: "Register" on the left and "Cancel" on the right.



## Dashboard (dashboard)

### Customer Dashboard([customer\\_dashboard.py](#)):

The Customer Dashboard serves as the main interface for customers. It provides easy access to account-related features and order history. The dashboard is designed to deliver a personalized experience by greeting the customer by name and loading customer-specific data into each page.



### Admin Dashboard([admin\\_dashboard.py](#))

The Admin Dashboard is a central control panel for system administrators. It provides a sidebar navigation menu to switch between various management and analytics pages.

Upon login, the dashboard displays a welcome message addressed to the admin user and allows quick access to critical system functionalities.

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
1	igreensite2d	*****	igreensite2d@em...	Iise	Greensite	634-390-3140	admin	2023-10-25 ...	warehouse ...	Warehouse ...
2	cbrito2e	*****	cbrito2e@erat...	Cherey	Brito	545-200-3669	admin	2023-09-20 ...	warehouse ...	Warehouse ...
3	hyanuk2f	*****	hyanuk2f@ipal...	Haleigh	Yanuk	179-645-7154	admin	2023-03-20 ...	sales manager	Sales
4	wfettes2g	*****	wfettes2g@pos...	Witty	Fettes	123-547-8340	admin	2023-12-02 ...	support manager	Customer Service
5	pacalcut2h	*****	pacalcut2h@my...	Prudi	Calcutt	157-761-5060	admin	2023-05-06 ...	sales manager	Sales
6	kblodg2i	*****	kblodg2i@red...	Kitty	Blodg	975-528-5574	admin	2023-03-24 ...	warehouse ...	Warehouse ...
7	awillis2j	*****	awillis2j@bizjou...	Ansel	Willis	638-298-6517	admin	2022-02-26 ...	warehouse ...	Warehouse ...
8	gpelos2k	*****	gpelos2k@vht...	Gerhardine	Pelos	646-951-5545	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrough2l	*****	dkimbrough2l@...	Dora	Kimbrough	905-934-1126	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@uda...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	msandz2n	*****	msandz2n@cdc...	Meade	Dand	953-358-0468	admin	2024-10-12 ...	sales manager	Sales
12	jbohlingolsen2o	*****	jbohlingolsen3o...	Jillayne	Bohlingolsen	714-449-7823	admin	2024-12-17 ...	support manager	Customer Service

Add Admin      Edit Admin      Delete Admin

Stock Analysis      Sales Performance      Product Insights      Customer Orders      Market Trends      Logout

## Customer Site (customer\_site)

### My Account(my\_account.py)

The module displays the current user's personal information in a table and provides an editable form below the table. Users can update their details or delete their account. Passwords are displayed as masked (asterisks) in the table, but the actual password is stored internally.

- Edit My Information: Updates the user's information in the database.

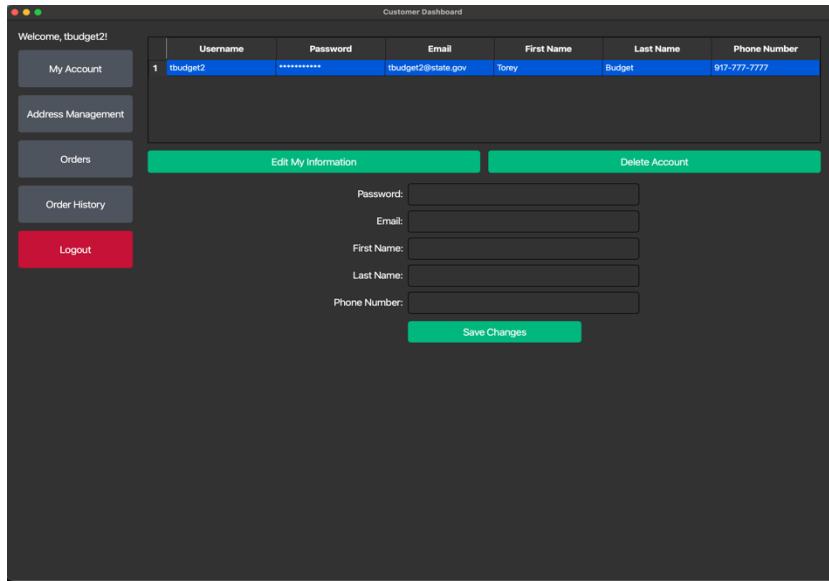
	Username	Password	Email	First Name	Last Name	Phone Number
1	tbudget2	*****	tbudget2@state.gov	Torey	Budget	917-806-4660

Edit My Information      Delete Account

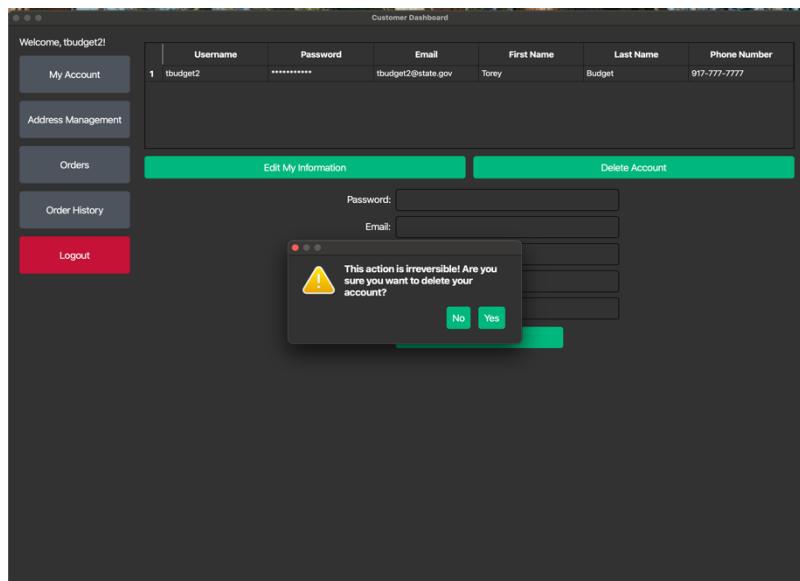
Password: .....  
Email: tbudget2@state.gov  
First Name: Torey  
Last Name: Budget  
Phone Number: 917-777-7777

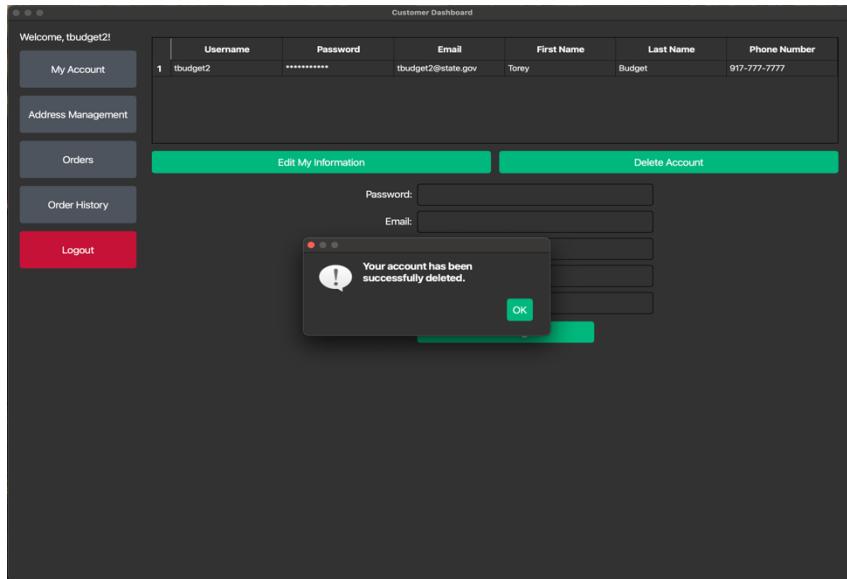
Save Changes

My Account      Address Management      Orders      Order History      Logout



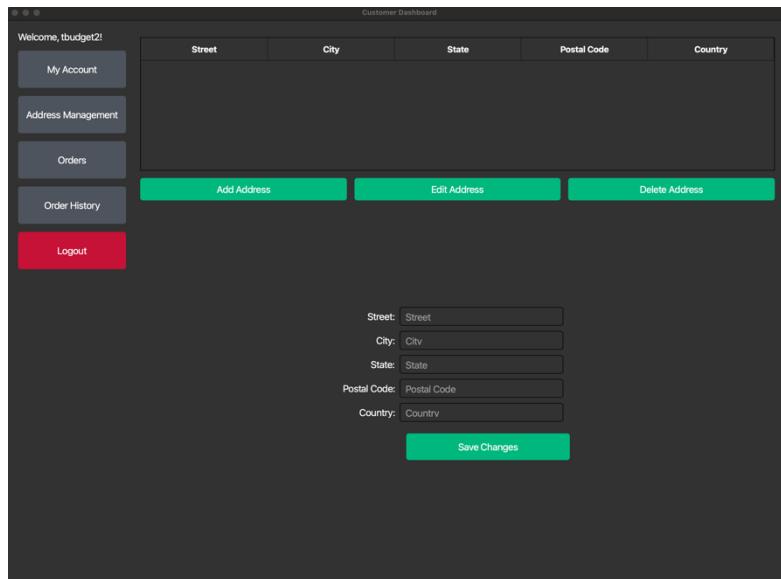
- **Delete Account:** After confirmation, deletes the user's record from the database and logs the user out by closing all windows and showing the login screen.





## Address Management(address\_management.py)

The module provides a user interface for managing shipping addresses for a logged-in customer. It allows the user to view, add, edit, and delete addresses.



- Add Address: Clears the input fields for a new address.

Customer Dashboard

Welcome, tbudget2!

My Account

Address Management

Orders

Order History

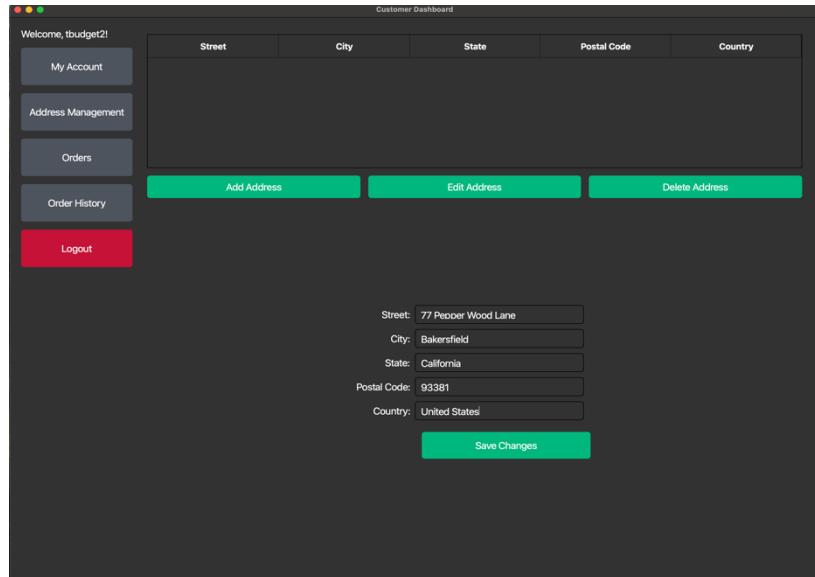
Logout

Street	City	State	Postal Code	Country

Add Address    Edit Address    Delete Address

Street: 77 Pepper Wood Lane  
City: Bakersfield  
State: California  
Postal Code: 93381  
Country: United States

Save Changes



Customer Dashboard

Welcome, tbudget2!

My Account

Address Management

Orders

Order History

Logout

Street	City	State	Postal Code	Country

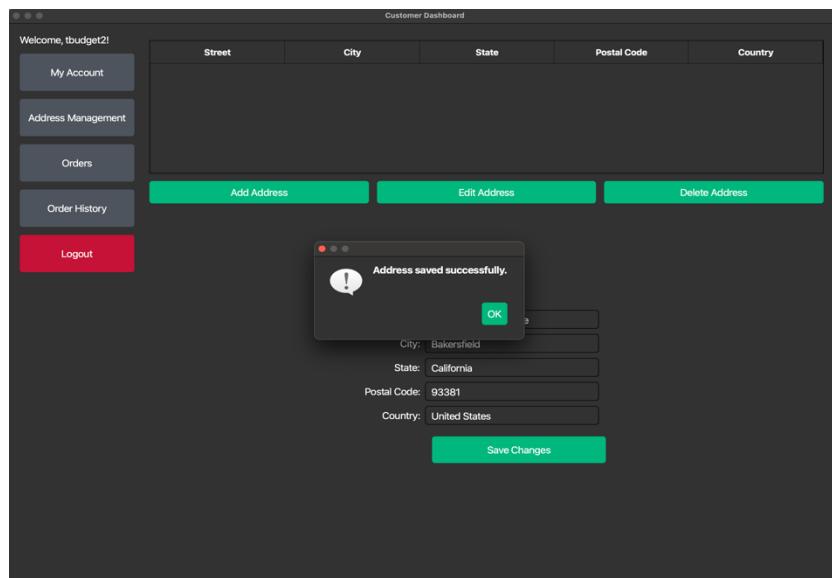
Add Address    Edit Address    Delete Address

Address saved successfully.

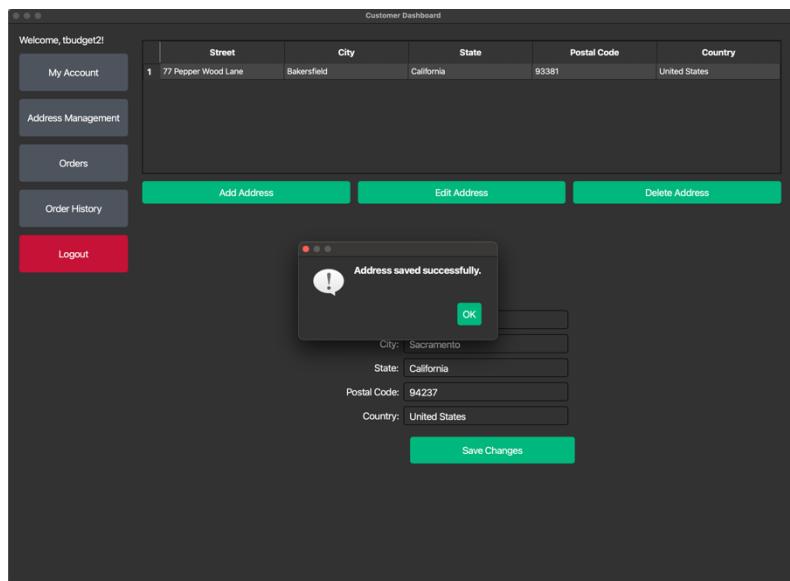
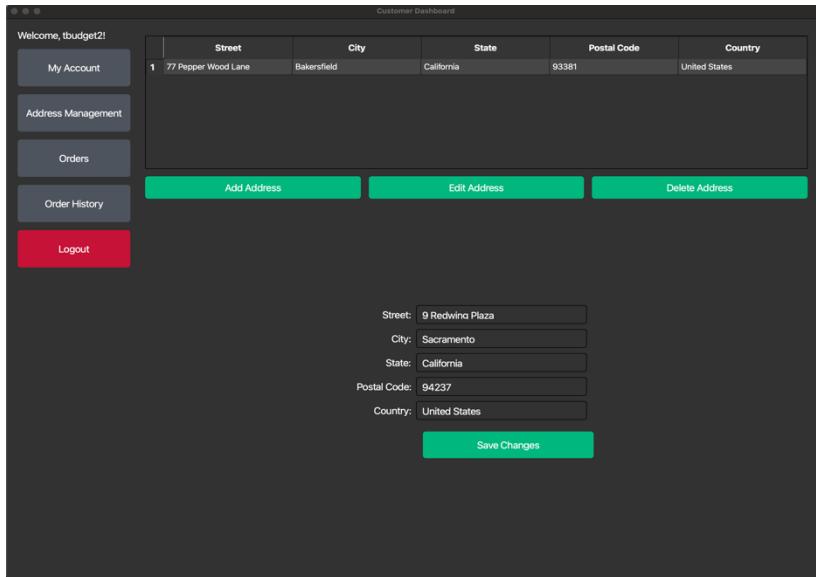
OK

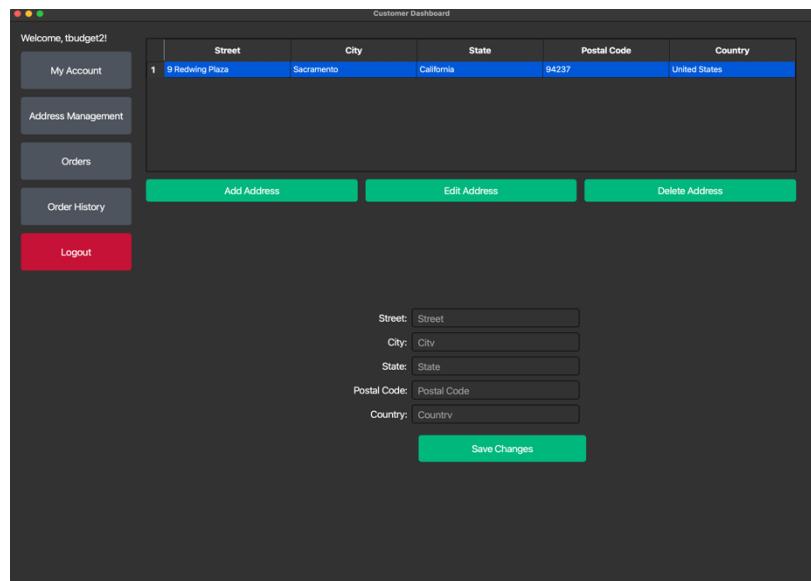
City: Bakersfield  
State: California  
Postal Code: 93381  
Country: United States

Save Changes

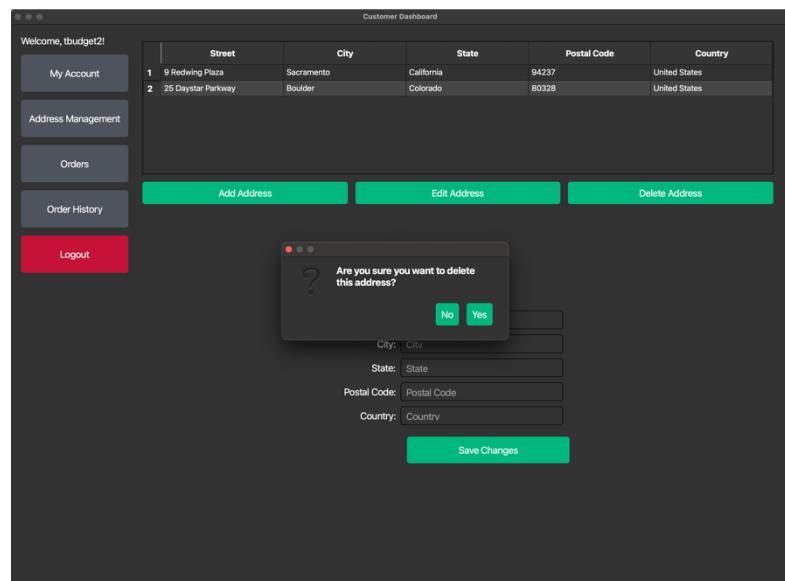


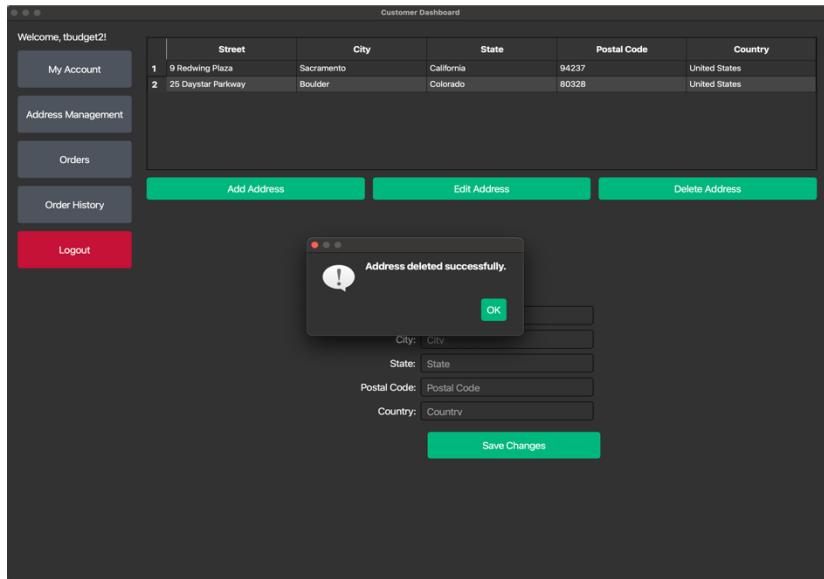
- **Edit Address:** Loads the selected row's data into the input form for editing.





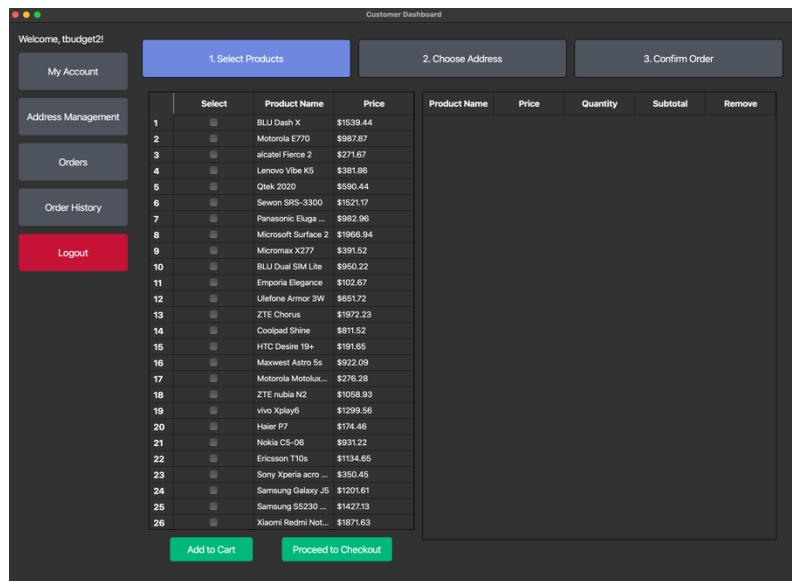
- Delete Address: Deletes the currently selected address from the database.





## Orders(orders.py)

Provides a multi-step ordering process, including product selection with shopping cart, shipping address selection, and order confirmation.



- Product selection
  - Displays available products (only those with stock\_quantity > 0) in a table.
  - Provides an “Add to Cart” button to add products (with quantity controls) to the cart.
  - Contains a separate cart table that shows items added to the cart, including a spin box for quantity adjustment and a Remove button.

Customer Dashboard

Welcome, tbudget2!

[My Account](#)
  
[Address Management](#)
  
[Orders](#)
  
[Order History](#)
  
[Logout](#)

1. Select Products
2. Choose Address
3. Confirm Order

	Select	Product Name	Price
1	<input checked="" type="checkbox"/>	BLU Dash X	\$1539.44
2	<input checked="" type="checkbox"/>	Motorola E770	\$987.87
3	<input checked="" type="checkbox"/>	alcatel Fierce 2	\$271.67
4	<input checked="" type="checkbox"/>	Lenovo Vibe K5	\$381.86
5	<input checked="" type="checkbox"/>	Qtek 2020	\$590.44
6	<input type="checkbox"/>	Sewon SRS-3300	\$1521.17
7	<input type="checkbox"/>	Panasonic Eluga ...	\$982.96
8	<input type="checkbox"/>	Microsoft Surface 2	\$1966.94
9	<input type="checkbox"/>	Micromax X277	\$391.52
10	<input type="checkbox"/>	BLU Dual SIM Lite	\$950.22
11	<input type="checkbox"/>	Emporia Elegance	\$102.67
12	<input type="checkbox"/>	Ulefone Armor 3W	\$651.72
13	<input type="checkbox"/>	ZTE Chorus	\$1972.23
14	<input type="checkbox"/>	Coolpad Shine	\$811.52
15	<input type="checkbox"/>	HTC Desire 19+	\$191.85
16	<input type="checkbox"/>	Maxwest Astro 5s	\$922.09
17	<input type="checkbox"/>	Motorola Motolux...	\$276.28
18	<input type="checkbox"/>	ZTE nubia N2	\$1058.93
19	<input type="checkbox"/>	vivo Xplay6	\$1299.56
20	<input type="checkbox"/>	Haier P7	\$174.46
21	<input type="checkbox"/>	Nokia C5-06	\$931.22
22	<input type="checkbox"/>	Ericsson T10s	\$1134.65
23	<input type="checkbox"/>	Sony Xperia acro ...	\$350.45
24	<input type="checkbox"/>	Samsung Galaxy J5	\$1201.61
25	<input type="checkbox"/>	Samsung S5230 ...	\$1422.13
26	<input type="checkbox"/>	Xiaomi Redmi Not...	\$1871.63

[Add to Cart](#)
|
[Proceed to Checkout](#)

Customer Dashboard

Welcome, tbudget2!

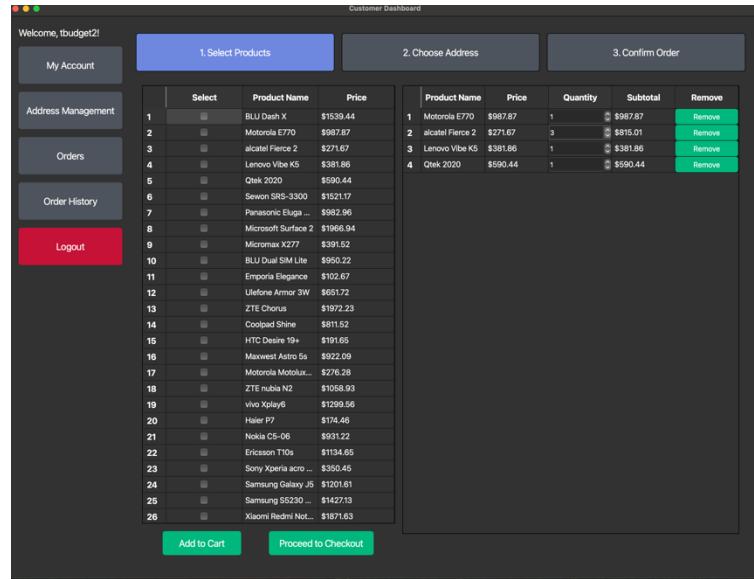
[My Account](#)
  
[Address Management](#)
  
[Orders](#)
  
[Order History](#)
  
[Logout](#)

1. Select Products
2. Choose Address
3. Confirm Order

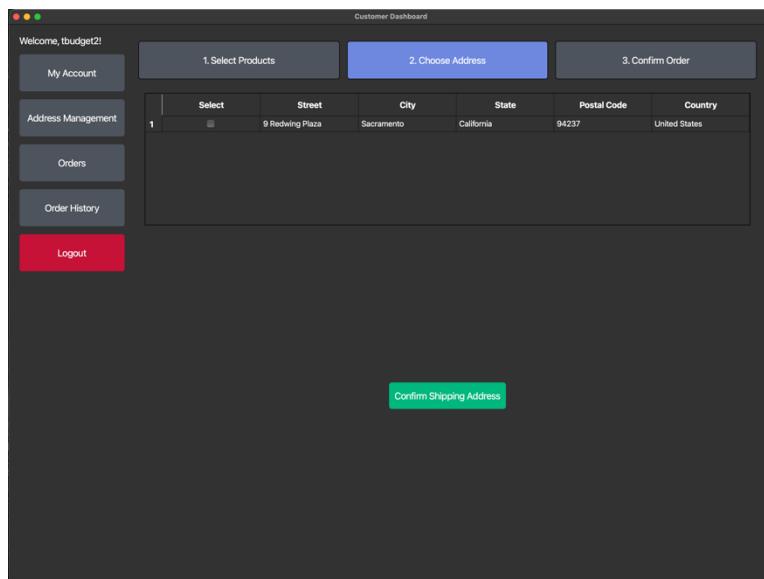
	Select	Product Name	Price
1	<input type="checkbox"/>	BLU Dash X	\$1539.44
2	<input type="checkbox"/>	Motorola E770	\$987.87
3	<input type="checkbox"/>	alcatel Fierce 2	\$271.67
4	<input type="checkbox"/>	Lenovo Vibe K5	\$381.86
5	<input type="checkbox"/>	Qtek 2020	\$590.44
6	<input type="checkbox"/>	Sewon SRS-3300	\$1521.17
7	<input type="checkbox"/>	Panasonic Eluga ...	\$982.96
8	<input type="checkbox"/>	Microsoft Surface 2	\$1966.94
9	<input type="checkbox"/>	Micromax X277	\$391.52
10	<input type="checkbox"/>	BLU Dual SIM Lite	\$950.22
11	<input type="checkbox"/>	Emporia Elegance	\$102.67
12	<input type="checkbox"/>	Ulefone Armor 3W	\$651.72
13	<input type="checkbox"/>	ZTE Chorus	\$1972.23
14	<input type="checkbox"/>	Coolpad Shine	\$811.52
15	<input type="checkbox"/>	HTC Desire 19+	\$191.85
16	<input type="checkbox"/>	Maxwest Astro 5s	\$922.09
17	<input type="checkbox"/>	Motorola Motolux...	\$276.28
18	<input type="checkbox"/>	ZTE nubia N2	\$1058.93
19	<input type="checkbox"/>	vivo Xplay6	\$1299.56
20	<input type="checkbox"/>	Haier P7	\$174.46
21	<input type="checkbox"/>	Nokia C5-06	\$931.22
22	<input type="checkbox"/>	Ericsson T10s	\$1134.65
23	<input type="checkbox"/>	Sony Xperia acro ...	\$350.45
24	<input type="checkbox"/>	Samsung Galaxy J5	\$1201.61
25	<input type="checkbox"/>	Samsung S5230 ...	\$1422.13
26	<input type="checkbox"/>	Xiaomi Redmi Not...	\$1871.63

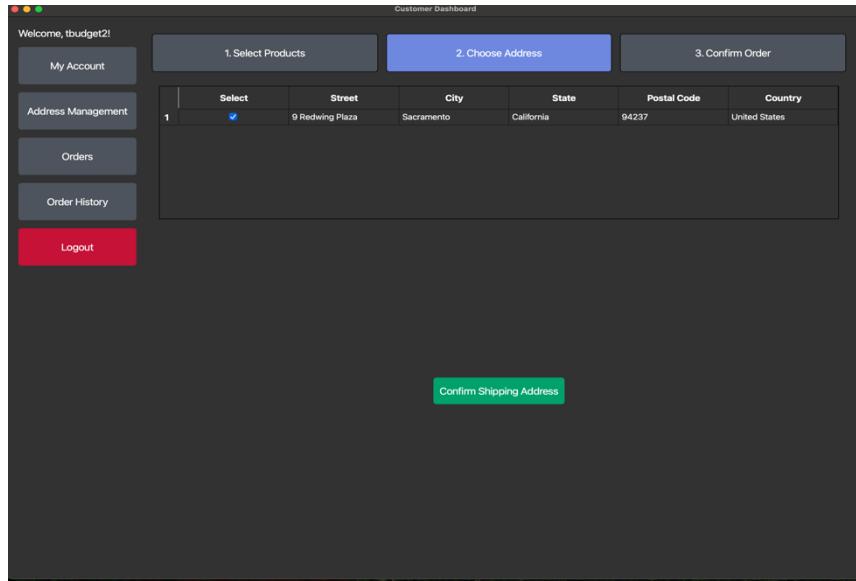
Product Name	Price	Quantity	Subtotal	Remove
1 BLU Dash X	\$1539.44	1	\$1539.44	<button>Remove</button>
2 Motorola E770	\$987.87	1	\$987.87	<button>Remove</button>
3 alcatel Fierce 2	\$271.67	1	\$271.67	<button>Remove</button>
4 Lenovo Vibe K5	\$381.86	1	\$381.86	<button>Remove</button>
5 Qtek 2020	\$590.44	1	\$590.44	<button>Remove</button>

[Add to Cart](#)
|
[Proceed to Checkout](#)



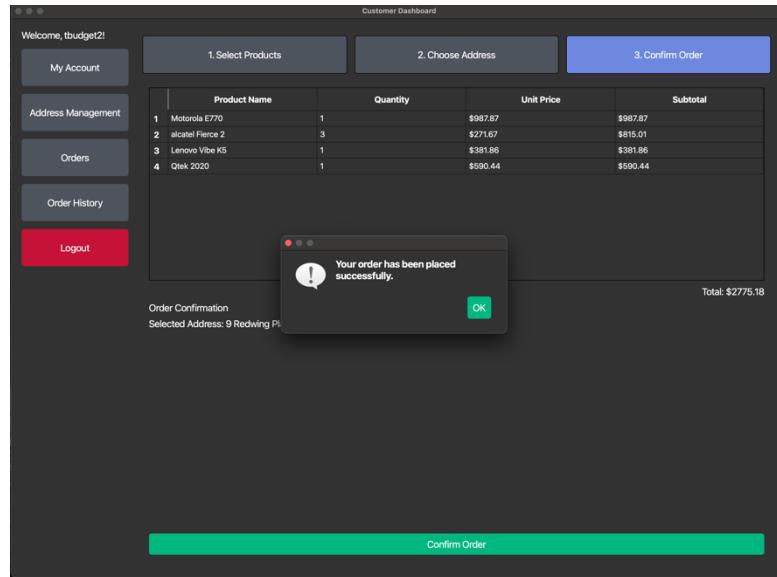
- Shipping Address Selection:
    - Displays available shipping addresses in a table.
    - Uses a confirm button to select the shipping address.





- Order Confirmation
  - Displays the order confirmation page that shows the selected address, the order items from the cart, and the total price.
  - Provides a Confirm Order button that inserts the order and order items into the database.

Customer Dashboard				
1. Select Products		2. Choose Address		3. Confirm Order
Product Name	Quantity	Unit Price	Subtotal	
1 Motorola E770	1	\$987.87	\$987.87	
2 alcatel Fierce 2	3	\$271.67	\$815.01	
3 Lenovo Vibe K5	1	\$381.86	\$381.86	
4 Qtek 2020	1	\$590.44	\$590.44	
Total: \$2775.18				
Order Confirmation Selected Address: 9 Redwing Plaza, Sacramento, California, 94237, United States				
<b>Confirm Order</b>				



## Order History(order\_history.py)

The module provides a customer interface for viewing past orders and their corresponding items. It displays a list of orders in one table and shows the items for a selected order in a second table. Additionally, it offers an option to cancel an order if its status is "Pending."

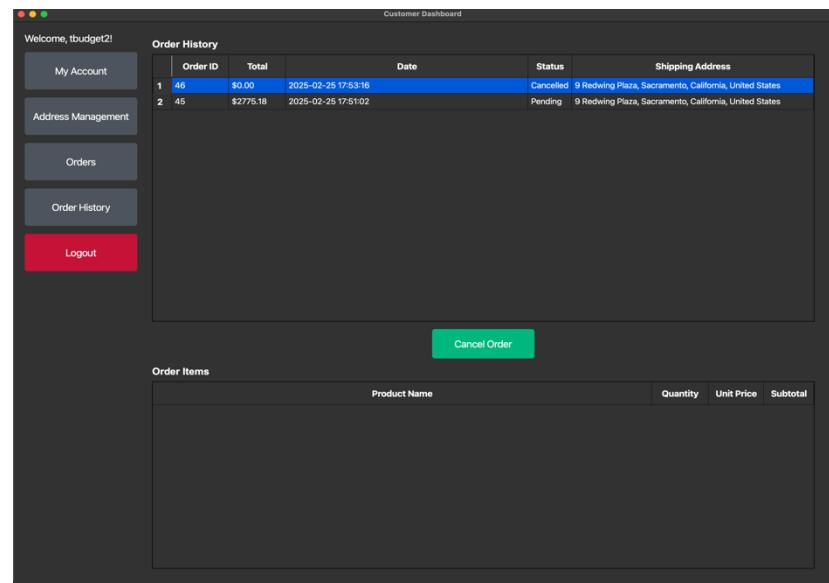
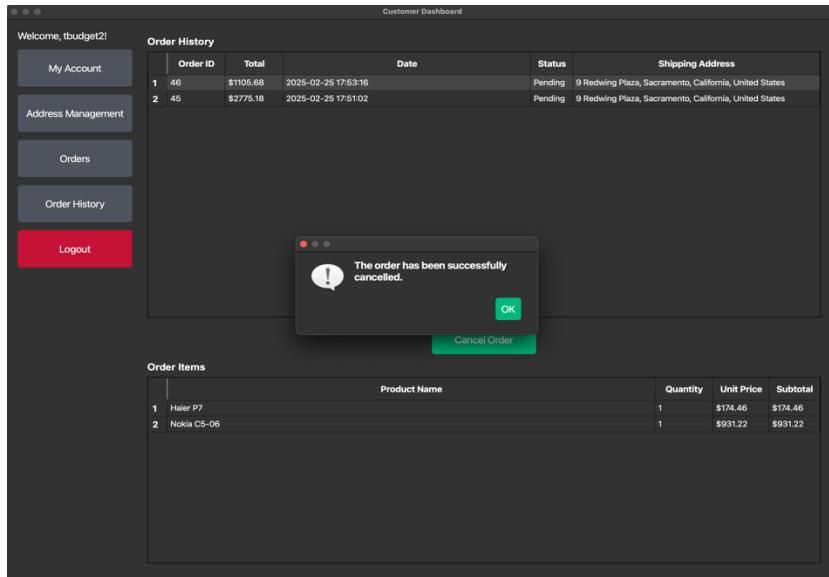
- Orders & Order Items table

Order ID	Total	Date	Status	Shipping Address
1 45	\$2775.18	2025-02-25 17:51:02	Pending	9 Redwing Plaza, Sacramento, California, United States

Cancel Order

	Product Name	Quantity	Unit Price	Subtotal
1	Motorola E770	1	\$987.87	\$987.87
2	alcatel Fierce 2	3	\$271.67	\$815.01
3	Lenovo Vibe K5	1	\$381.86	\$381.86
4	Qtek 2020	1	\$590.44	\$590.44

- Order cancellation



## Admin Management (admin)

### Admin Management(admin\_management.py)

Provides an interface for managing administrator accounts (adding, editing, deleting).

- Add Admin: Clears the form to allow entry of a new admin.

Welcome, jbhollingsen2o!

### Admin Dashboard

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
1	igreenste2d	*****	igreenste2d@em...	Ilse	Greensite	634-390-3140	admin	2023-10-25 ...	warehouse ...	Warehouse ...
2	cbrito2e	*****	cbrito2e@senat...	Cherey	Brito	545-200-5669	admin	2023-09-20 ...	warehouse ...	Warehouse ...
3	hyanku2f	*****	hyanku2f@elpa...	Haleigh	Yanuk	179-645-7154	admin	2023-03-20 ...	sales manager	Sales
4	wfettes2g	*****	wfettes2g@pos...	Witty	Fettes	123-547-8340	admin	2023-12-02 ...	support manager	Customer Service
5	pcalcutt2h	*****	pcalcutt2h@m...	Prudi	Calcutt	157-761-5060	admin	2023-05-06 ...	sales manager	Sales
6	kbloed2i	*****	kbloed2i@red...	Ketty	Blodg	975-528-5574	admin	2023-03-24 ...	warehouse ...	Warehouse ...
7	awillis2j	*****	awillis2j@bizje...	Ansel	Willis	638-298-6517	admin	2022-02-26 ...	warehouse ...	Warehouse ...
8	gpelos2k	*****	gpelos2k@whit...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrrough2l	*****	dkimbrrough2l@...	Doria	Kimbrrough	905-934-1126	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@aude...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdand2n	*****	mdand2n@cdc...	Meade	Dand	953-358-0468	admin	2024-10-12 ...	sales manager	Sales
12	jbhollingsen2o	*****	jbhollingsen3o...	Jillayne	Böhlingosen	714-449-823	admin	2024-12-17 ...	support manager	Customer Service

[Add Admin](#) [Edit Admin](#) [Delete Admin](#)

Username: mbrobyn3  
 Password: \*\*\*\*\*  
 Email: mbrobyn3@mac.com  
 First Name: Mathew  
 Last Name: Brobyn  
 Phone Number: 605-978-8906  
 Role: admin  
 Admin Level: sales manager  
 Department: Sales

[Save Changes](#)

Welcome, jbhollingsen2o!

### Admin Dashboard

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpelos2k	*****	gpelos2k@whit...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrrough2l	*****	dkimbrrough2l@...	Doria	Kimbrrough	905-934-1126	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@aude...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdand2n	*****	mdand2n@cdc...	Meade	Dand	953-358-0468	admin	2024-10-12 ...	sales manager	Sales
12	jbhollingsen2o	*****	jbhollingsen3o...	Jillayne	Böhlingosen	714-449-823	admin	2024-12-17 ...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe...	Walsh	Weedall	651-293-2262	admin	2023-04-02 ...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@...	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...	sales manager	Marketing
15	cparkerf	*****	cparker@nyt...c...	Cami	Parker	255-212-9112	admin	2024-04-15 ...	sales manager	Sales
16	ecleerew	*****	ecleerew@ulu.c...	Ed	Cleerew	205-303-6141	admin	2023-05-13 ...	super admin	IT Administration
17	kspacklin9i	*****	kspacklin9i@yo...	Kevyn	Spracklin	761-127-8220	admin	2024-05-29 ...	warehouse ...	Warehouse ...
18	cjowitte	*****	cjowitte15@on...	Carmencita	Jowitt	766-714-3015	admin	2024-06-19 ...	super admin	IT Administration
19	mbrobyn3	*****	mbrobyn3@ma...	Mathew	Brobyn	605-978-8906	admin	2025-02-25 ...	sales manager	Sales

[Add Admin](#) [Edit Admin](#) [Delete Admin](#)

Username: Username  
 Password: Password  
 Email: Email  
 First Name: First Name  
 Last Name: Last Name  
 Phone Number: Phone Number  
 Role: admin  
 Admin Level: super admin  
 Department: Customer Service

[Save Changes](#)

- **Edit Admin:** Loads the selected row's data into an editable form.

Welcome, jbohlingolsen20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpelos2k	*****	gpelos2k@whit...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrough2l	*****	dkimbrough2l@..._	Doria	Kimbrough	905-934-1126	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@aude...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdand2n	*****	mdand2n@cde...	Meade	Dand	953-358-0468	admin	2024-10-12 ...	sales manager	Sales
12	jbohlingolsen2o	*****	jbohlingolsen2o...	Illayne	Bøllingolsen	714-449-7823	admin	2024-12-17 ...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe...	Walsh	Weedall	651-293-1262	admin	2023-04-02 ...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@...	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...	sales manager	Marketing
15	cparkerf	*****	cparkerf@nytm...	Cami	Parker	255-212-9112	admin	2024-04-15 ...	sales manager	Sales
16	ecleerew	*****	ecleerew@lulu.c...	Ede	Cleere	205-303-6141	admin	2023-05-13 ...	super admin	IT Administration
17	kspacklingj	*****	kspacklingj@yo...	Keyyn	Sprackling	761-127-8220	admin	2024-05-29 ...	warehouse ...	Warehouse ...
18	cjowtite	*****	cjowtite15@m...	Camencita	Jowitt	766-714-3015	admin	2024-06-19 ...	super admin	IT Administration
19	mbrobyn3	*****	mbrobyn3@ma...	Mathew	Brobyn	605-978-8906	admin	2025-02-25 ...	sales manager	Sales

Add Admin      Edit Admin      Delete Admin

Stock Analysis      Sales Performance      Product Insights      Customer Orders      Market Trends

Logout

Username: mbrobyn3  
 Password: \*\*\*\*\*  
 Email: mbrobyn3@mac.com  
 First Name: Mathew  
 Last Name: Brobyn  
 Phone Number: 605-777-7777  
 Role: admin  
 Admin Level: warehouse manager  
 Department: Warehouse Operations

Save Changes

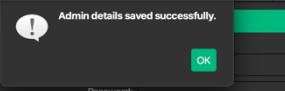
Welcome, jbohlingolsen20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpelos2k	*****	gpelos2k@whit...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrough2l	*****	dkimbrough2l@..._	Doria	Kimbrough	905-934-1126	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@aude...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdand2n	*****	mdand2n@cde...	Meade	Dand	953-358-0468	admin	2024-10-12 ...	sales manager	Sales
12	jbohlingolsen2o	*****	jbohlingolsen2o...	Illayne	Bøllingolsen	714-449-7823	admin	2024-12-17 ...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe...	Walsh	Weedall	651-293-1262	admin	2023-04-02 ...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@...	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...	sales manager	Marketing
15	cparkerf	*****	cparkerf@nytm...	Cami	Parker	255-212-9112	admin	2024-04-15 ...	sales manager	Sales
16	ecleerew	*****	ecleerew@lulu.c...	Ede	Cleere	205-303-6141	admin	2023-05-13 ...	super admin	IT Administration
17	kspacklingj	*****	kspacklingj@yo...	Keyyn	Sprackling	761-127-8220	admin	2024-05-29 ...	warehouse ...	Warehouse ...
18	cjowtite	*****	cjowtite15@m...	Camencita	Jowitt	766-714-3015	admin	2024-06-19 ...	super admin	IT Administration
19	mbrobyn3	*****	mbrobyn3@ma...	Mathew	Brobyn	605-978-8906	admin	2025-02-25 ...	sales manager	Sales

Add Admin      Admin details saved successfully.      Delete Admin

Stock Analysis      Sales Performance      Product Insights      Customer Orders      Market Trends

Logout



Password: \*\*\*\*\*  
 Email: mbrobyn3@mac.com  
 First Name: Mathew  
 Last Name: Brobyn  
 Phone Number: 605-777-7777  
 Role: admin  
 Admin Level: warehouse manager  
 Department: Warehouse Operations

Save Changes

Welcome, jbhelsing20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpolos2k	*****	gpolos2k@whi...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11...	sales manager	Marketing
9	dkimbrough2l	*****	dkimbrough2l@o...	Doria	Kimbrough	905-934-1126	admin	2023-05-04...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@auda...	Anna-maria	Itzig	672-675-4922	admin	2023-07-25...	super admin	IT Administration
11	mdand2n	*****	mdand2n@ccdc...	Meadie	Dand	953-358-0468	admin	2024-10-12...	sales manager	Sales
12	jbhelsing2o	*****	jbhelsing2o@o...	Jillayne	BøHlingsøen	714-449-7823	admin	2024-12-17...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe...	Walsh	Weedall	651-293-1262	admin	2023-04-02...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@o...	Caro	Jemmison	913-968-7742	admin	2024-09-14...	sales manager	Marketing
15	csparkarf	*****	csparkarf@nytm...	Cami	Parker	255-212-9112	admin	2024-04-15...	sales manager	Sales
16	edeerew	*****	edeerew@ulu.c...	Ede	Cleere	205-303-6141	admin	2023-05-13...	super admin	IT Administration
17	kspackalingj	*****	kspackalingj@yo...	Keynn	Sprackling	761-127-8220	admin	2024-05-29...	warehouse ...	Warehouse ...
18	cjowtite	*****	cjowtite15@om...	Carmencita	Jowitt	766-714-3015	admin	2024-06-19...	super admin	IT Administration
19	mbrobyn3	*****	mbrobyn3@em...	Mathew	Brobyn	605-777-7777	admin	2025-02-25...	warehouse ...	Warehouse ...

Add Admin      Edit Admin      Delete Admin

Logout

Username:  Username  
 Password:  Password  
 Email:  Email  
 First Name:  First Name  
 Last Name:  Last Name  
 Phone Number:  Phone Number  
 Role:  admin  
 Admin Level:  super admin  
 Department:  Customer Service  
 Save Changes

- **Delete Admin:** Deletes the selected admin record after confirmation.

Welcome, jbhelsing20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpolos2k	*****	gpolos2k@whi...	Gerhardine	Pelos	646-951-5548	admin	2023-10-11...	sales manager	Marketing
9	dkimbrough2l	*****	dkimbrough2l@o...	Doria	Kimbrough	905-934-1126	admin	2023-05-04...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@auda...	Anna-maria	Itzig	672-675-4922	admin	2023-07-29...	super admin	IT Administration
11	mdand2n	*****	mdand2n@ccdc...	Meadie	Dand	953-358-0468	admin	2024-10-12...	sales manager	Sales
12	jbhelsing2o	*****	jbhelsing2o@o...	Jillayne	BøHlingsøen	714-449-7823	admin	2024-12-17...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe...	Walsh	Weedall	651-293-1262	admin	2023-04-02...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@o...	Caro	Jemmison	913-968-7742	admin	2024-09-14...	sales manager	Marketing
15	csparkarf	*****	csparkarf@nytm...	Cami	Parker	255-212-9112	admin	2024-04-15...	sales manager	Sales
16	edeerew	*****	edeerew@ulu.c...	Ede	Cleere	205-303-6141	admin	2023-05-13...	super admin	IT Administration
17	kspackalingj	*****	kspackalingj@yo...	Keynn	Sprackling	761-127-8220	admin	2024-05-29...	warehouse ...	Warehouse ...
18	cjowtite	*****	cjowtite15@om...	Carmencita	Jowitt	766-714-3015	admin	2024-06-19...	super admin	IT Administration
19	mbrobyn3	*****	mbrobyn3@em...	Mathew	Brobyn	605-777-7777	admin	2025-02-25...	warehouse ...	Warehouse ...

Add Admin      Are you sure you want to delete this admin?      Delete Admin

No Yes

Password:  Password  
 Email:  Email  
 First Name:  First Name  
 Last Name:  Last Name  
 Phone Number:  Phone Number  
 Role:  admin  
 Admin Level:  super admin  
 Department:  Customer Service  
 Save Changes

Welcome, jbohlingesen20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
8	gpeilos2k	*****	gpeilos2k@wh... t	Gerdarne	Pelos	646-95-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrrough2l	*****	dkimbrrough2l@... t	Doria	Kimbrough	905-934-1128	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@uda... t	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdland2n	*****	mdland2n@cdc... t	Meade	Dand	953-358-0488	admin	2024-10-12 ...	sales manager	Sales
12	jbohlingesen2o	*****	jbohlingesen3o... t	Jillayne	Bohlingesen	714-449-7823	admin	2024-12-17 ...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe... t	Walsh	Weedall	651-293-1262	admin	2023-04-02 ...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@... t	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...	sales manager	Marketing
15	cparkerf	*****	cparkerf@ym... t	Cami	Parker	255-212-9112	admin	2024-04-15 ...	sales manager	Sales
16	ecleerew	*****	ecleerew@ulu... t	Ede	Cleere	205-303-6141	admin	2023-05-13 ...	super admin	IT Administration
17	kspacklingj	*****	kspacklingj@yo... t	Keynyn	Sprackling	761-127-8220	admin	2024-05-29 ...	warehouse ...	Warehouse ...
18	cjowitte5	*****	cjowitte5@om... t	Camencita	Jowitt	766-714-3015	admin	2024-06-19 ...	super admin	IT Administration
19	mbrodyn3	*****	mbrodyn3@... t			7777	admin	2025-02-25 ...	warehouse ...	Warehouse ...

Add Admin

Admin deleted successfully and role updated to 'customer'.

OK

Save Changes

Welcome, jbohlingesen20!

	Username	Password	Email	First Name	Last Name	Phone	Role	Created At	Admin Level	Department
7	awillis2j	*****	awillis2j@bzjou... t	Aisel	Willis	638-298-6517	admin	2022-02-26 ...	warehouse ...	Warehouse ...
8	gpeilos2k	*****	gpeilos2k@wh... t	Gerdarne	Pelos	646-951-5548	admin	2023-10-11 ...	sales manager	Marketing
9	dkimbrrough2l	*****	dkimbrrough2l@... t	Doria	Kimbrough	905-934-1128	admin	2023-05-04 ...	warehouse ...	Warehouse ...
10	alitzig2m	*****	alitzig2m@uda... t	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...	super admin	IT Administration
11	mdland2n	*****	mdland2n@cdc... t	Meade	Dand	953-358-0488	admin	2024-10-12 ...	sales manager	Sales
12	jbohlingesen2o	*****	jbohlingesen3o... t	Jillayne	Bohlingesen	714-449-7823	admin	2024-12-17 ...	support manager	Customer Service
13	wweedall2p	*****	wweedall2p@fe... t	Walsh	Weedall	651-293-1262	admin	2023-04-02 ...	sales manager	Sales
14	cjemmison2q	*****	cjemmison2q@... t	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...	sales manager	Marketing
15	cparkerf	*****	cparkerf@ym... t	Cami	Parker	255-212-9112	admin	2024-04-15 ...	sales manager	Sales
16	ecleerew	*****	ecleerew@ulu... t	Ede	Cleere	205-303-6141	admin	2023-05-13 ...	super admin	IT Administration
17	kspacklingj	*****	kspacklingj@yo... t	Keynyn	Sprackling	761-127-8220	admin	2024-05-29 ...	warehouse ...	Warehouse ...
18	cjowitte5	*****	cjowitte5@om... t	Camencita	Jowitt	766-714-3015	admin	2024-06-19 ...	super admin	IT Administration

Add Admin

Edit Admin

Delete Admin

Username:

Password:

Email:

First Name:

Last Name:

Phone Number:

Role:  admin  customer

Admin Level:  super admin  customer service

Department:  Customer Service  IT Administration

Save Changes

## User Management(user\_management.py)

The module provides an administrative interface for managing user accounts. Its primary function is to allow an administrator to search, filter, and view registered users, and to promote selected users to administrator status using a promotion dialog.

Welcome, jbohlingolsen20!

**Admin Management**

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Promote to Admin

Admin Dashboard									
Search by username, email, first/last name, phone									
All Roles									
All Roles									
User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At	
1	cjowitte	*****	cjowitte5@omnit... Camenita	Jowitt	766-714-3015	admin	2024-06-19 ...		
2	cparkerf	*****	cparkerf@nytimes... Cami	Parker	255-212-9112	admin	2024-04-15 ...		
3	jdowneg	*****	jdowneg@163.com Jessalin	Downe	676-878-9878	customer	2022-06-12 ...		
4	jrimmerh	*****	jrimmerh@yu.edu Jesus	Rimmer	153-150-5070	customer	2023-07-09 ...		
5	cfroshami	*****	cfroshami@wpc... Corabel	Frodham	179-348-5863	customer	2023-04-01 ...		
6	kspacklingj	*****	kspacklingj@yout... Kevyn	Spracking	761-127-8220	admin	2024-05-29 ...		
7	pcordisk	*****	pcordisk@theatran... Peterus	Cords	954-990-9479	customer	2022-09-12 ...		
8	kpatryl	*****	kpatryl@theatran... Kalindi	Patry	908-538-5963	customer	2023-01-11 ...		
9	vgrubbm	*****	vgrubbm@yolast... Vinni	Grubb	708-380-6826	customer	2023-12-01 ...		
10	phaneyn	*****	phaneyn@cloudt... Parsifal	Haney'	325-969-0988	customer	2022-12-05 ...		
11	msearla	*****	msearla@hp.com Madlin	Searl	833-426-2316	customer	2023-10-11 ...		
12	tcrocettip	*****	tcrocettip@aterv... Tybi	Crocetti	618-739-0593	customer	2023-05-31 ...		
13	mlukasq	*****	mlukasq@netvib... Maxie	Lukas	719-257-7579	customer	2023-06-05 ...		
14	wminair	*****	wminair@dot.gov Wrin	Minail	217-572-2073	customer	2024-09-28 ...		
15	cwindmills	*****	cwindmills@hostg... Cyril	Windmill	863-916-1580	customer	2022-10-31 ...		
16	mpiett	*****	mpiett@hexun.com Marchelle	Piet	842-788-4762	customer	2024-06-06 ...		
17	gburcombeu	*****	gburcombeu@typ... Godart	Burcombe	578-330-6289	customer	2023-10-02 ...		
18	rebanksy	*****	rebanksy@mit.edu Ravid	Ebanks	574-319-6898	customer	2024-02-16 ...		
19	edleewr	*****	edleewr@ilu.com Ede	Cleere	205-303-6141	admin	2023-05-13 ...		
20	ekierx	*****	ekierx@zinhuate... Elinor	Kier	980-306-7534	customer	2022-04-03 ...		
21	evogelery	*****	evogelery@fema... Elden	Vogeler	160-828-9805	customer	2024-02-13 ...		
22	ncollacombez	*****	ncollacombez@... Nealon	Collacombe	741-352-0802	customer	2022-10-30 ...		

- Search and Filtering**
  - The top section of the interface includes a search bar (for username, email, first name, last name, or phone number) and a role filter (with options "All Roles," "customer," and "admin").
  - Administrators can filter the list of users based on these criteria using the "Search" button and reset the filters with the "Reset" button.

Welcome, jbohlingolsen20!

**Admin Management**

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Promote to Admin

Admin Dashboard									
Search by username, email, first/last name, phone									
All Roles									
All Roles									
User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At	
1	cjowitte	*****	cjowitte5@omnit... Camenita	Jowitt	766-714-3015	admin	2024-06-19 ...		

Welcome, jbohlingosen20!

**Admin Management**

pcordsk@theatlantic.com | All Roles | **Search** | **Reset**

User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At	
1	7	pcordsk	*****	pcordsk@theatlantic...	Peterus	Cords	954-990-9479	customer	2022-09-12 ...

**User Management**

**Order Management**

**Product Management**

**Inventory Management**

**Stock Analysis**

**Sales Performance**

**Product Insights**

**Customer Orders**

**Market Trends**

**Logout**

**Promote to Admin**

Welcome, jbohlingosen20!

**Admin Management**

Search by username, email, first/last name, phone | customer | **Search** | **Reset**

User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At	
1	3	jdowneg	*****	jdowneg@163.com	Jessalin	Downe	676-878-9878	customer	2022-06-12 ...
2	4	jimmerh	*****	jimmerh@nyu.edu	Jesus	Rimmer	153-150-5070	customer	2023-07-09 ...
3	5	chrodshamj	*****	chrodshamj@wp...	Corabel	Frodham	179-348-8863	customer	2023-04-01 ...
4	7	pcordsk	*****	pcordsk@theatlantic...	Peterus	Cords	954-990-9479	customer	2022-09-12 ...
5	8	kpatryl	*****	kpatryl@theatlantic...	Kalindi	Patty	908-538-5663	customer	2023-01-11 ...
6	9	vgrubm	*****	vgrubm@yolast...	Vinnie	Grubb	708-380-6262	customer	2023-12-01 ...
7	10	phaneyn	*****	phaneyn@cloudfl...	Penstal	Haney'	325-969-0988	customer	2022-12-06 ...
8	11	mseario	*****	mseario@ip.com	Madlin	Searl	833-426-2316	customer	2023-10-11 ...
9	12	tcrocettp	*****	tcrocettp@aterv...	Tybi	Crocetti	618-739-6993	customer	2023-05-31 ...
10	13	mlukaszq	*****	mlukaszq@netvibe...	Maxie	Lukas	719-257-7579	customer	2023-06-05 ...
11	14	wminair	*****	wminair@ddt.gov	Winn	Minall	217-572-2073	customer	2024-09-28 ...
12	15	cwindmills	*****	cwindmills@hostg...	Cyril	Windmill	863-916-5880	customer	2022-10-31 ...
13	16	mpiett	*****	mpiett@hexun.co...	Marchelle	Piet	842-788-4762	customer	2024-06-05 ...
14	17	gburcombeu	*****	gburcombeu@typ...	Godart	Burcombe	578-330-6289	customer	2023-10-02 ...
15	18	rebanksv	*****	rebanksv@mit.edu	Ravid	Ebanks	574-319-6898	customer	2024-02-16 ...
16	19	ekierx	*****	ekierx@zhuhanet...	Elinor	Kier	980-306-7534	customer	2022-04-03 ...
17	21	evogallery	*****	evogallery@fema...	Elder	Vogeler	160-828-9805	customer	2024-02-13 ...
18	22	ncollacombez	*****	ncollacombez@e...	Nelson	Collcombe	741-352-0802	customer	2022-10-30 ...
19	23	rredfield10	*****	rredfield10@msu...	Niel	Redfield	853-728-7384	customer	2024-12-06 ...
20	24	fdominique27	*****	fdominique27@gc...	Frannie	Dominique	890-972-2604	customer	2023-06-13 ...
21	25	jounny28	*****	jounny28@stag...	Judd	Bunny	763-249-2528	customer	2023-09-27 ...
22	26	pitas29	*****	pitas29@feedback...	Patricia	Las	563-786-6813	customer	2022-06-12 ...

**User Management**

**Order Management**

**Product Management**

**Inventory Management**

**Stock Analysis**

**Sales Performance**

**Product Insights**

**Customer Orders**

**Market Trends**

**Logout**

**Promote to Admin**

	User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At
1	1	cjowitt	*****	cjowitt5@omni..._	Carmenita	Jowitt	766-714-3015	admin	2024-06-19 ...
2	2	cparkerf	*****	cparkerf@nytimes...	Cami	Parker	255-212-9112	admin	2024-04-15 ...
3	6	kspacklingj	*****	kspacklingj@out...	Kevyn	Sprackling	761-127-8220	admin	2024-05-29 ...
4	19	ecleerew	*****	ecleerew@lulu.com	Ede	Cleere	205-303-6141	admin	2023-05-13 ...
5	30	igreenstie2d	*****	igreenstie2d@mar...	Iise	Greensite	634-390-3140	admin	2023-10-26 ...
6	31	cbrito2e	*****	cbrito2e@senate...	Chery	Brito	545-200-3669	admin	2023-09-20 ...
7	32	hyanuk2f	*****	hyanuk2f@elpais...	Haleigh	Yanuk	179-645-7154	admin	2023-03-20 ...
8	33	wfettes2g	*****	wfettes2g@post...	Wittie	Fettes	123-547-8340	admin	2023-12-02 ...
9	34	palcut2h	*****	palcut2h@nyt...	Prudi	Calcutt	157-761-5060	admin	2023-05-06 ...
10	35	kbloq2i	*****	kbloq2i@ted.com	Ketty	Blodg	975-528-5574	admin	2023-03-24 ...
11	36	awillis2j	*****	awillis2j@bizjurn...	Ansel	Willis	638-298-6517	admin	2022-02-26 ...
12	37	gpelos2k	*****	gpelos2k@whiteh...	Gerardine	Pelos	646-951-5548	admin	2023-10-11 ...
13	38	dkimbrough2l	*****	dkimbrough2l@ed...	Doria	Kimbrough	905-934-1126	admin	2023-05-04 ...
14	39	alitzig2m	*****	alitzig2m@auditor...	Anna-maria	Itzig	672-675-4822	admin	2023-07-25 ...
15	40	mdand2n	*****	mdand2n@cdc.gov	Meade	Dand	953-358-0468	admin	2024-10-12 ...
16	41	jbohlingolsen2o	*****	jbohlingolsen3o@...	Jillaryne	Bohlingolsen	714-449-7823	admin	2024-12-17 ...
17	42	wweedall2p	*****	wweedall2p@fem...	Walsh	Weedall	651-293-1262	admin	2023-04-02 ...
18	43	cjemmison2q	*****	cjemmison2q@wh...	Caro	Jemmison	913-968-7742	admin	2024-09-14 ...

- Promote to Admin
  - Clicking the “Promote to Admin” button opens an admin promotion dialog. In the dialog, the administrator selects the new admin level (e.g., super admin, warehouse manager, sales manager, or support manager) and the corresponding department. Once confirmed, the stored procedure `promote_user_to_admin` is executed to update the user's role in the database, and the user table is refreshed.

The screenshot shows the Admin Dashboard with a user selection dialog overlaid. The dialog is titled "Promote User to Admin" and contains fields for "Admin Level" (set to "support manager") and "Department" (set to "Customer service"). It has "Promote" and "Cancel" buttons. The background shows a user table with one row selected, matching the user in the dialog.

Admin Dashboard

Welcome, jbohlingosen2@...

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Promote to Admin

jdowneg@163.com

customer

Search

Reset

	User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At
1	3	jdowneg	*****	jdowneg@163.com	Jessalin	Downe	676-878-9878	customer	2022-06-12 ...

User has been promoted to Admin  
(support manager, Customer Service).

OK

Admin Dashboard

Welcome, jbohlingosen2@...

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Promote to Admin

jdowneg@163.com

All Roles

Search

Reset

	User ID	Username	Password	Email	First Name	Last Name	Phone Number	Role	Created At
1	3	jdowneg	*****	jdowneg@163.com	Jessalin	Downe	676-878-9878	admin	2022-06-12 ...

Admin Dashboard

Welcome, jbohlingolsen2@...

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Search by username, email, first/last name, phone

All Roles

Search

Reset

User ID | Username | Password | Email | First Name | Last Name | Phone Number | Role | Created At

1	cjowittie	\*\*\*\*\*	cjowittie@omni...	Carmencita	Jowitt	766-714-3015	admin	2024-06-19 ...
2	cparkerf	\*\*\*\*\*	cparkerf@nytimes...	Carrie	Parker	255-212-9112	admin	2024-04-15 ...
3	jdownieg	\*\*\*\*\*	jdownieg@163.com	Jessalyn	Downe	676-878-9878	admin	2022-06-12 ...
4	jrimmerh	\*\*\*\*\*	jrimmerh@ryu.edu	Jesus	Rimmer	153-150-5070	customer	2023-07-09 ...
5	cfrosham1	\*\*\*\*\*	cfrosham1@wp...	Corabel	Frosham	179-348-5863	customer	2023-04-01 ...
6	kspackling1	\*\*\*\*\*	kspackling@you...	Kevyn	Spacking	761-177-8220	admin	2024-05-29 ...
7	pcordisk	\*\*\*\*\*	pcordisk@heatlan...	Peterus	Cords	954-990-9479	customer	2022-09-12 ...
8	kpatryl	\*\*\*\*\*	kpatryl@heatlan...	Kalind	Patry	908-538-9663	customer	2023-01-11 ...
9	vgrubbm	\*\*\*\*\*	vgrubbm@yolaist...	Vinnie	Grubb	708-380-6826	customer	2023-12-01 ...
10	phaneyn	\*\*\*\*\*	phaneyn@coduffi...	Parashal	Haney	325-969-0988	customer	2022-12-05 ...
11	mseario	\*\*\*\*\*	mseario@hp.com	Maddin	Searl	833-426-2316	customer	2023-10-11 ...
12	tcrocettip	\*\*\*\*\*	tcrocettip@terri...	Tybi	Crocetti	618-739-0593	customer	2023-05-31 ...
13	mlukasq	\*\*\*\*\*	mlukasq@netvibe...	Maxie	Lukas	719-257-7579	customer	2023-06-05 ...
14	wminallr	\*\*\*\*\*	wminallr@ddt.gov	Winn	Minall	217-572-2073	customer	2024-09-28 ...
15	cwindmills	\*\*\*\*\*	cwindmills@hostg...	Cyril	Windmill	863-916-1580	customer	2022-10-31 ...
16	mplett	\*\*\*\*\*	mplett@hexum.co...	Marchelle	Piet	842-788-4762	customer	2024-06-05 ...
17	gburcombeu	\*\*\*\*\*	gburcombebeatty...	Godart	Burcombe	578-330-6289	customer	2023-10-02 ...
18	rebanksv	\*\*\*\*\*	rebanksv@mit.edu	Revid	Ebanks	574-319-6898	customer	2024-02-16 ...
19	ecleerew	\*\*\*\*\*	ecleerew@jkl.com	Edee	Cleere	205-303-6141	admin	2023-05-13 ...
20	ekierx	\*\*\*\*\*	ekierx@mhuanet...	Elinor	Kier	980-506-7534	customer	2022-04-03 ...
21	evogillery	\*\*\*\*\*	evogillery@fema...	Elder	Vogeler	160-628-9805	customer	2024-02-13 ...
22	ncollacomebz	\*\*\*\*\*	ncollacomebz@...	Nealon	Collcombe	741-352-0802	customer	2022-10-30 ...

Promote to Admin

## Order Management(order\_management.py)

The Order Management module provides an administrative interface for viewing and managing customer orders. It features order search and filtering, detailed order item display, and the ability to update an order's delivery status.

- Orders Table

Admin Dashboard

Welcome, jbohlingolsen2@...

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Search by Order ID

Search by Username

All

Search

Reset

Order ID | Username | Total Amount | Order Date | Shipping Address | Delivery Status | Status Update Date

1	cjowittie	\$191.65	2022-03-01 23:39:10	11109 Stoughton Court ...	Delivered	2022-03-11 23:39:10
2	cparkerf	\$2793.66	2024-06-20 04:37:36	5 Farragut Park Denver ...	Delivered	2024-07-01 04:37:36
3	jdownieg	\$3845.52	2023-01-09 13:32:53	480 Marley Way Chicag...	Delivered	2023-01-19 13:32:53
4	jrimmerh	\$815.01	2024-01-12 04:05:37	24586 Comanche ...	Delivered	2024-01-22 04:05:37
5	cfrosham1	\$6192.97	2023-04-09 06:15:54	985 Mitchell Crossing ...	Delivered	2023-04-19 06:15:54
6	kspackling1	\$4614.62	2023-07-13 17:08:55	324 Di Loreto Alley Bois...	Delivered	2023-08-10 17:08:55
7	kpatryl	\$772.89	2024-10-26 09:16:21	20 Cody Hill Anderson ...	Delivered	2024-11-06 09:16:21
8	vgrubbm	\$6968.04	2024-07-14 19:28:20	288 Lake View Road ...	Delivered	2024-07-24 19:28:20
9	phaneyn	\$2948.88	2023-11-20 01:29:48	2 Express Circle Arvinsto...	Shipped	2023-11-27 01:29:48
10	mseario	\$4241.62	2023-12-29 10:41:18	70 Nelson Circle San ...	Shipped	2024-01-15 10:41:18
11	mlukasq	\$1078.88	2022-12-17 13:41:25	861 Declaration Avenue ...	Delivered	2022-12-27 13:41:25
12	wminallr	\$3898.68	2023-09-20 17:39:27	8559 Algoma Way San ...	Cancelled	2023-10-10 17:39:27

Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal

Update Status

- Order Items Table

The screenshot shows the Admin Dashboard with a search result for Order ID 1. The search bar at the top has "cjowitte" entered. The main table displays 12 rows of order data, with the first row (Order ID 1) highlighted in blue. The table columns are Order ID, Username, Total Amount, Order Date, Shipping Address, Delivery Status, and Status Update Date. Below the main table is a smaller table showing the details of the selected order item (Order Item ID 6), which includes Order ID 1, Product Name (HTC Desire 19+), Quantity (1), Unit Price (\$191.65), and Subtotal (\$191.65). A green "Update Status" button is located at the bottom right of the page.

	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date
1	1	cjowitte	\$191.65	2022-03-01 23:39:10	11109 Stoughton Court ...	Delivered	2022-03-11 23:39:10
2	2	cpankerf	\$2793.66	2024-06-21 04:37:36	5 Farngut Park, Denver ...	Delivered	2024-07-01 04:37:36
3	3	jdowning	\$3845.62	2023-01-09 13:32:53	488 Manley Way Chicago ...	Delivered	2023-01-19 13:32:53
4	4	jrimmerh	\$815.01	2024-01-10 04:05:37	24586 Cormance ...	Delivered	2024-01-22 04:05:37
5	5	cfrosham1	\$6192.97	2023-04-09 06:15:54	968 Mitchell Crossing ...	Delivered	2023-04-19 06:15:54
6	6	kspackling1	\$4614.82	2023-07-18 07:08:55	324 Di Loreto Alley Boli ...	Delivered	2023-08-10 07:08:55
7	7	lpartry1	\$772.59	2024-10-26 09:16:21	20 Cody Hill Anderson ...	Delivered	2024-11-05 09:16:21
8	8	vgrubin	\$6968.04	2024-07-14 19:28:20	286 Lake View Road, ...	Delivered	2024-07-24 19:28:20
9	9	phaneyn	\$2948.88	2023-11-24 01:29:48	2 Express Circle Amistad ...	Shipped	2023-11-27 01:29:48
10	10	mscarlo	\$4241.62	2023-12-20 10:41:18	70 Nelson Circle San ...	Shipped	2024-01-15 10:41:18
11	11	mukasq	\$1078.88	2022-12-17 13:41:25	861 Declaration Avenue ...	Delivered	2022-12-27 13:41:25
12	12	wminalli	\$3898.68	2023-09-20 17:39:27	8559 Algoma Way San ...	Cancelled	2023-10-10 17:39:27

	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal	
1	6	1	HTC Desire 19+	1	\$191.65	\$191.65	

- Search Section:

- Provides input fields to filter orders by Order ID and Username.
- Includes a status filter combo box (with options "All," "Pending," "Shipped," "Delivered," "Canceled") and "Search" and "Reset" buttons.
- Filters are applied to the orders query so that the table reflects the desired subset of orders.

The screenshot shows the Admin Dashboard with a search result for Order ID 10. The search bar at the top has "cjowitte" entered. The main table displays 10 rows of order data, with the last row (Order ID 10) highlighted in blue. The table columns are Order ID, Username, Total Amount, Order Date, Shipping Address, Delivery Status, and Status Update Date. Below the main table is a smaller table showing the details of the selected order item (Order Item ID 43), which includes Order ID 10, Product Name (Panasonic Eluga Icon), Quantity (1), Unit Price (\$982.96), and Subtotal (\$982.96). A green "Update Status" button is located at the bottom right of the page.

	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date
1	1	cjowitte	\$191.65	2022-03-01 23:39:10	11109 Stoughton Court ...	Delivered	2022-03-11 23:39:10
2	33	cjowitte	\$4042.49	2025-01-31 23:34:14	11109 Stoughton Court ...	Pending	2025-02-11 20:11:35
3	34	cjowitte	\$4025.30	2025-02-11 19:29:03	11109 Stoughton Court ...	Shipped	2025-02-11 19:29:03
4	35	cjowitte	\$2065.87	2025-02-11 19:33:17	25 Daystar Parkway ...	Shipped	2025-02-11 19:33:17
5	36	cjowitte	\$2783.76	2025-02-11 19:43:32	25 Daystar Parkway ...	Shipped	2025-02-11 20:12:03
6	37	cjowitte	\$655.83	2025-02-11 19:40:56	25 Daystar Parkway ...	Delivered	2025-02-11 19:40:56
7	38	cjowitte	\$1905.05	2025-02-11 19:44:06	25 Daystar Parkway ...	Shipped	2025-02-11 19:44:06
8	39	cjowitte	\$2394.14	2025-02-11 19:44:40	77 Pepper Wood Lane ...	Shipped	2025-02-11 19:44:40
9	42	cjowitte	\$2504.13	2025-02-13 13:44:48	8845 American Ash Cou...	Pending	2025-02-13 17:44:48
10	43	cjowitte	\$4905.93	2025-02-13 18:24:09	8845 American Ash Cou...	Pending	2025-02-13 18:24:09

	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal	
1	85	43	Panasonic Eluga Icon	1	\$982.96	\$982.96	
2	86	43	HTC Desire 19+	1	\$191.65	\$191.65	
3	87	43	Marwest Astro 5s	1	\$922.09	\$922.09	
4	88	43	Motorola MotoG5 MT680	1	\$276.28	\$276.28	
5	89	43	ZTE nubia N2	1	\$1058.93	\$1058.93	

Admin Dashboard								
Welcome, cbolingolos20!								
Admin Management		Search by Order ID		Order ID: cjiowtite		Pending	Search	
User Management								
Order Management	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date	
1 33	cjiowtite	\$4042.49	2025-01-31 23:34:14	1109 Stoughton Court...	Pending	2025-02-11 20:11:35		
2 42	cjiowtite	\$2504.13	2025-02-13 17:44:48	8845 American Ash Cou...	Pending	2025-02-13 17:44:48		
3 43	cjiowtite	\$4905.93	2025-02-13 18:24:05	8845 American Ash Cou...	Pending	2025-02-13 18:24:05		
Product Management								
Inventory Management								
Stock Analysis								
Sales Performance								
Product Insights	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal		
1 85	43	Panasonic Eluga Icon	1	\$982.96	\$982.96			
2 86	43	HTC Desire 19+	1	\$191.65	\$191.65			
3 87	43	Maxwest Astro 5s	1	\$922.09	\$922.09			
4 88	43	Motorola MotoG6 MT680	1	\$276.28	\$276.28			
5 89	43	ZTE nubia N2	1	\$1058.93	\$1058.93			
Customer Orders								
Market Trends								
Logout					Update Status			

- Updating Order Status

- With an order selected, clicking the "Update Status" button opens a dialog where the administrator can choose a new status. Upon confirmation, the system updates the order's status in the database, refreshes the orders list, and reloads the corresponding order items.

Admin Dashboard								
Welcome, cbolingolos20!								
Admin Management		Search by Order ID		Order ID: cjiowtite		Pending	Search	
User Management								
Order Management	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date	
1 33	cjiowtite	\$4042.49	2025-01-31 23:34:14	1109 Stoughton Court...	Pending	2025-02-11 20:11:35		
2 42	cjiowtite	\$2504.13	2025-02-13 17:44:48	8845 American Ash Cou...	Pending	2025-02-13 17:44:48		
3 43	cjiowtite	\$4905.93	2025-02-13 18:24:05	8845 American Ash Cou...	Pending	2025-02-13 18:24:05		
Product Management								
Inventory Management								
Stock Analysis								
Sales Performance								
Product Insights	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal		
1 85	43	Panasonic Eluga Icon	1	\$982.96	\$982.96			
2 86	43	HTC Desire 19+	1	\$191.65	\$191.65			
3 87	43	Maxwest Astro 5s	1	\$922.09	\$922.09			
4 88	43	Motorola MotoG6 MT680	1	\$276.28	\$276.28			
5 89	43	ZTE nubia N2	1	\$1058.93	\$1058.93			
Customer Orders								
Market Trends					Update Status			
Logout								

Welcome, jbohingosen2ol

Admin Dashboard

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Search by Order ID: cjowtte

Pending

Search Reset

	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date
1	33	cjowtte	\$4042.49	2025-01-31 23:34:14	11109 Stoughton Court ...	Pending	2025-02-11 20:11:35
2	42	cjowtte	\$2804.13	2025-02-13 17:44:48	8845 American Ash Cou...	Pending	2025-02-13 17:44:48
3	43	cjowtte	\$4905.93	2025-02-13 18:24:05	8845 American Ash Cou...	Pending	2025-02-13 18:24:05

Order 43 status updated to Shipped.

OK

	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal
1	85	43	Panasonic Eluga Icon	1	\$982.96	\$982.96
2	86	43	HTC Desire 19+	1	\$191.65	\$191.65
3	87	43	Maxwest Astro 5s	1	\$922.09	\$922.09
4	88	43	Motorola MotoLuxe MT680	1	\$276.28	\$276.28
5	89	43	ZTE nubia N2	1	\$1058.93	\$1058.93

Update Status

Welcome, jbohingosen2ol

Admin Dashboard

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

Search by Order ID: cjowtte

Shipped

Search Reset

	Order ID	Username	Total Amount	Order Date	Shipping Address	Delivery Status	Status Update Date
1	34	cjowtte	\$4025.30	2025-02-11 19:29:03	11109 Stoughton Court ...	Shipped	2025-02-11 19:29:03
2	35	cjowtte	\$2065.87	2025-02-11 19:33:17	25 Daystar Parkway ...	Shipped	2025-02-11 19:33:17
3	36	cjowtte	\$2783.75	2025-02-11 19:34:32	25 Daystar Parkway ...	Shipped	2025-02-11 20:12:03
4	38	cjowtte	\$1905.05	2025-02-11 19:44:06	25 Daystar Parkway ...	Shipped	2025-02-11 19:44:06
5	39	cjowtte	\$2394.14	2025-02-11 19:44:40	77 Pepper Wood Lane ...	Shipped	2025-02-11 19:44:40
6	<b>43</b>	cjowtte	<b>\$4905.93</b>	<b>2025-02-13 18:24:05</b>	<b>8845 American Ash Cou...</b>	<b>Shipped</b>	<b>2025-02-13 18:24:05</b>

	Order Item ID	Order ID	Product Name	Quantity	Unit Price	Subtotal
1	85	43	Panasonic Eluga Icon	1	\$982.96	\$982.96
2	86	43	HTC Desire 19+	1	\$191.65	\$191.65
3	87	43	Maxwest Astro 5s	1	\$922.09	\$922.09
4	88	43	Motorola MotoLuxe MT680	1	\$276.28	\$276.28
5	89	43	ZTE nubia N2	1	\$1058.93	\$1058.93

Update Status

## Product Management(brand\_supplier\_product\_management.py)

This module provides a unified administrative interface for managing brands, suppliers, and products. It consists of three main components – one each for managing brands, suppliers, and products – which are integrated into a single container with a navigation sidebar. Administrators can view, add, edit, and delete records in each category, and the interface is designed with consistent form layouts and table views.

### *Brand Management Page*

- Allows administrators to manage brand records.

Admin Dashboard			
Admin Management	Brand Management	Suppliers Management	Product Management
User Management	Brand ID	Brand Name	
Order Management	1 1	BLU	
Product Management	2 2	Motorola	
Inventory Management	3 3	alcatel	
Stock Analysis	4 4	Lenovo	
Sales Performance	5 5	Qtek	
Product Insights	6 6	Sewan	
Customer Orders	7 7	Panasonic	
Market Trends	8 8	Microsoft	
	9 9	Micromax	
	10 10	Emporia	
	11 11	Ulefone	
	12 12	ZTE	
	13 13	Coolpad	
	14 14	HTC	
	15 15	Maxwest	
	16 16	vivo	
	17 17	Huawei	
	18 18	Nokia	
	19 19	Philips	
	20 20	Ericsson	
	Add Brand	Edit Brand	Delete Brand
	Brand Name: <input type="text"/>		
	<input type="button" value="Save Changes"/>		
Logout			

- Add Brand

Admin Dashboard			
Admin Management	Brand Management	Suppliers Management	Product Management
User Management	Brand ID	Brand Name	
Order Management	7 7	Panasonic	
Product Management	8 8	Microsoft	
Inventory Management	9 9	Micromax	
Stock Analysis	10 10	Emporia	
Sales Performance	11 11	Ulefone	
Product Insights	12 12	ZTE	
Customer Orders	13 13	Coolpad	
Market Trends	14 14	HTC	
	15 15	Maxwest	
	16 16	vivo	
	17 17	Huawei	
	18 18	Nokia	
	19 19	Philips	
	20 20	Ericsson	
	21 21	Sony	
	22 22	Samsung	
	23 23	Xiaomi	
	24 24	Huawei	
	25 25	Celkon	
	26 29	LG	
	Add Brand	Edit Brand	Delete Brand
	Brand Name: <input type="text"/> TESTBRAND		
	<input type="button" value="Save Changes"/>		
Logout			

Admin Dashboard

Welcome, jbohlingosen20!

Brand Management   Suppliers Management   Product Management

	Brand ID	Brand Name
7	7	Panasonic
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	Maxwest
16	16	vivo
17	17	Haier
18	18	Nokia
19	19	Philips
20	20	Ericsson
21	21	Sony
22	22	Samsung
23	23	Xiaomi
24	24	Huawei
25	25	Celkon
26	26	LG
27	27	
28	28	
29	29	

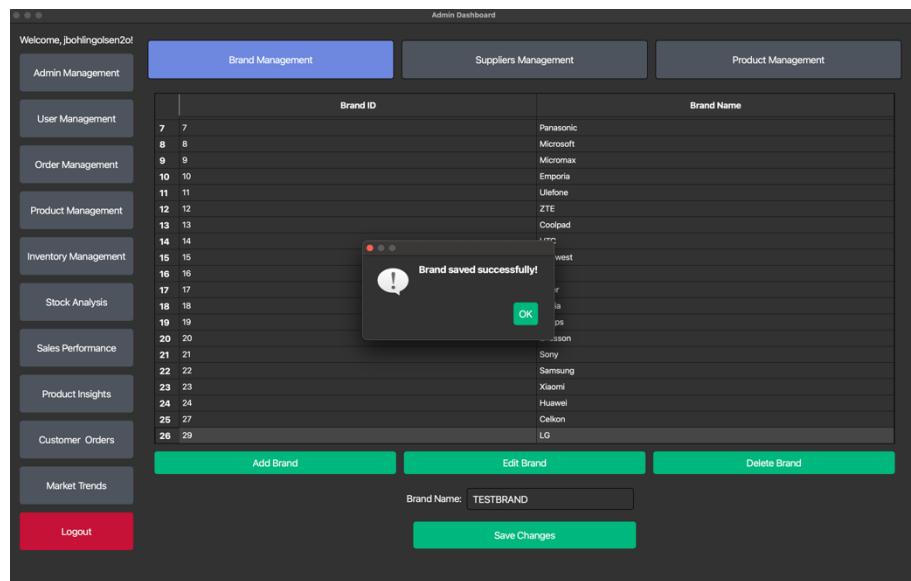
Brand saved successfully!

Add Brand   Edit Brand   Delete Brand

Brand Name: TESTBRAND

Save Changes

Logout



Admin Dashboard

Welcome, jbohlingosen20!

Brand Management   Suppliers Management   Product Management

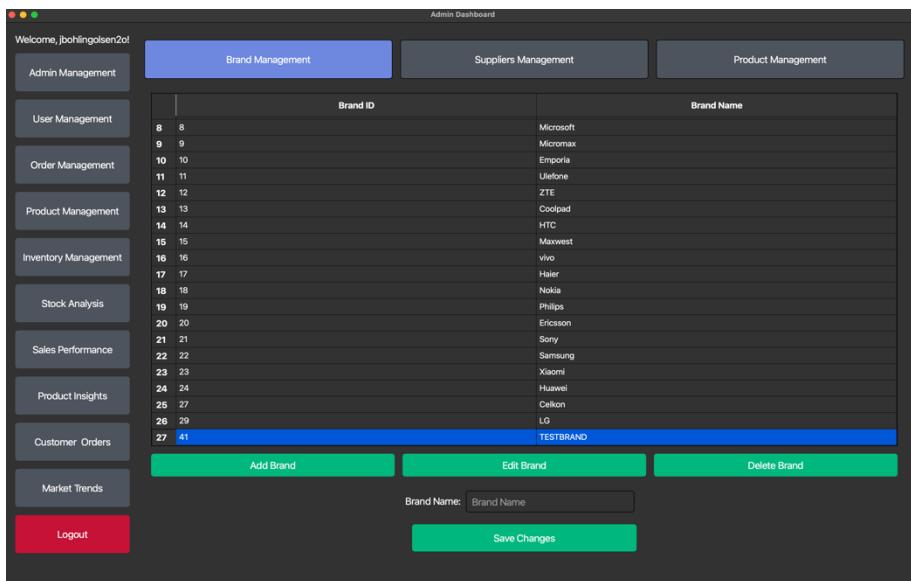
	Brand ID	Brand Name
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	Maxwest
16	16	vivo
17	17	Haier
18	18	Nokia
19	19	Philips
20	20	Ericsson
21	21	Sony
22	22	Samsung
23	23	Xiaomi
24	24	Huawei
25	25	Celkon
26	26	LG
27	27	TESTBRAND
28	28	
29	29	

Add Brand   Edit Brand   Delete Brand

Brand Name: Brand Name

Save Changes

Logout



- Edit Brand

Admin Dashboard		
Welcome, jbhingga20!	Brand Management	Suppliers Management
Admin Management		Product Management
User Management		
Order Management		
Product Management		
Inventory Management		
Stock Analysis		
Sales Performance		
Product Insights		
Customer Orders		
Market Trends		
Logout		
	Brand ID	Brand Name
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	Maxwest
16	16	vivo
17	17	Haiier
18	18	Nokia
19	19	Philips
20	20	Ericsson
21	21	Sony
22	22	Samsung
23	23	Xiaomi
24	24	Huawei
25	27	Celkon
26	29	LG
27	41	TESTBRAND
	Add Brand	Edit Brand
		Delete Brand
	Brand Name: TESTBRAND44	
	<button>Save Changes</button>	

Welcome, jbohlingsezen20!

Admin Dashboard

Brand Management

Suppliers Management

Product Management

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

	Brand ID	Brand Name
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	Xiaoyi
16	16	Invest
17	17	
18	18	
19	19	
20	20	
21	21	Samsung
22	22	Xiaomi
23	23	Huawei
24	24	Celkon
25	27	LG
26	29	TESTBRAND
27	41	

Add Brand

Edit Brand

Delete Brand

Brand Name: TESTBRAND44

Save Changes

Welcome, jbohlingosen20!

Admin Dashboard

Brand Management   Suppliers Management   Product Management

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

	Brand ID	Brand Name
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	Maxwest
16	16	vivo
17	17	Haier
18	18	Nokia
19	19	Philips
20	20	Ericsson
21	21	Sony
22	22	Samsung
23	23	Xiaomi
24	24	Huawei
25	27	Celkon
26	29	LG
27	41	TESTBRAND44

Add Brand   Edit Brand   Delete Brand

Brand Name:

Save Changes

- Delete Brand

Welcome, jbohlingolen20!

Admin Dashboard

Brand Management   Suppliers Management   Product Management

Admin Management

User Management

Order Management

Product Management

Inventory Management

Stock Analysis

Sales Performance

Product Insights

Customer Orders

Market Trends

Logout

	Brand ID	Brand Name
8	8	Microsoft
9	9	Micromax
10	10	Emporia
11	11	Ulefone
12	12	ZTE
13	13	Coolpad
14	14	HTC
15	15	
16	16	
17	17	
18	18	
19	19	
20	20	
21	21	Samsung
22	22	Xiaomi
23	23	Huawei
24	24	Celkon
25	25	LG
26	26	
27	27	
41	41	TESTBRAND44

Are you sure you want to delete this brand?

No Yes

Add Brand   Edit Brand   Delete Brand

Brand Name:

Save Changes

Admin Dashboard

Admin Management		Brand Management	Suppliers Management	Product Management
User Management				
Order Management				
Product Management				
Inventory Management				
Stock Analysis				
Sales Performance				
Product Insights				
Customer Orders				
Market Trends				
<a href="#">Logout</a>				
<a href="#">Add Brand</a>		<a href="#">Edit Brand</a>	<a href="#">Delete Brand</a>	
Brand Name: <input type="text"/> <a href="#">Save Changes</a>				

## Supplier Management Page

- Enables administrators to manage supplier records.

Admin Dashboard

Admin Management		Brand Management	Suppliers Management	Product Management
User Management				
Order Management				
Product Management				
Inventory Management				
Stock Analysis				
Sales Performance				
Product Insights				
Customer Orders				
Market Trends				
<a href="#">Logout</a>				
<a href="#">Add Supplier</a>		<a href="#">Edit Supplier</a>	<a href="#">Delete Supplier</a>	
Supplier Name: <input type="text"/> Contact Email: <input type="text"/> Contact Phone: <input type="text"/> Street: <input type="text"/> City: <input type="text"/> State: <input type="text"/> Postal Code: <input type="text"/> Country: <input type="text"/> <a href="#">Save Changes</a>				

- Add Supplier

Welcome, jbholingosen20!

Admin Dashboard

Admin Management		Brand Management					Suppliers Management			Product Management		
User Management	Order Management	Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country		
		14 14	Jacobi-Tremblay	cgtotting@jathis...	321-577-0651	55 Manley Road	Melbourne	Florida	32919	United States		
		15 15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States		
		16 16	Balistreri-Parker	mscrymgeourf@...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States		
		17 17	Haverson-Brown	scancellaris@de...	941-695-3363	5983 Ramsey Point	Naples	Florida	34102	United States		
		18 18	McLaughlin...	bgunderson@hbu...	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States		
		19 19	Klein, Fisher and ...	ashenye@hubz...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States		
		20 23	Agimba	dswendt@tb:red...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States		
		21 25	Padberg, Nicolas ...	piggin@comell...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States		

Add Supplier      Edit Supplier      Delete Supplier

Supplier Name: Marquardt-Buckridge  
 Contact Email: bwymer2@gmpg.org  
 Contact Phone: 651-770-7682  
 Street: 988 Paget Lane  
 City: Minneapolis  
 State: Minnesota  
 Postal Code: 55402  
 Country: United States

Save Changes

Logout

Welcome, jbholingosen20!

Admin Dashboard

Admin Management		Brand Management					Suppliers Management			Product Management		
User Management	Order Management	Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country		
		14 14	Jacobi-Tremblay	cgtotting@jathis...	321-577-0651	55 Manley Road	Melbourne	Florida	32919	United States		
		15 15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States		
		16 16	Balistreri-Parker	mscrymgeourf@...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States		
		17 17	Haverson-Brown	scancellaris@de...	941-695-3363	5983 Ramsey Point	Naples	Florida	34102	United States		
		18 18	McLaughlin...	bgunderson@hbu...	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States		
		19 19	Klein, Fisher and ...	ashenye@hubz...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States		
		20 23	Agimba	dswendt@tb:red...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States		
		21 25	Padberg, Nicolas ...	piggin@comell...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States		

Add Supplier      Supplier saved successfully!      Delete Supplier

Contact Phone: 651-770-7682  
 Street: 988 Paget Lane  
 City: Minneapolis  
 State: Minnesota  
 Postal Code: 55402  
 Country: United States

Save Changes

Logout

Admin Dashboard										
Welcome, jbohlingosen20!										
Brand Management Suppliers Management Product Management										
Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country		
15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States		
16	Balistreri-Parker	mscrymgeourf...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States		
17	Haverson-Brown	scancellarisogfde...	941-595-3363	5963 Ramsey Point	Naples	Florida	34102	United States		
18	McLaughlin...	bqundersohf...	727-157-0953	0 Portage Way	Clewater	Florida	33763	United States		
19	Klein, Fisher and ...	asherymeij@hub.c...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States		
20	Agimba	dswetland@bred...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States		
21	Padberg, Nicolas ...	piggin@comet.e...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States		
22	Marquardt...	bwymer2@gm...g.org	651-770-7682	988 Paget Lane	Minneapolis	Minnesota	55402	United States		

- Edit Supplier

Admin Dashboard										
Welcome, jbohlingosen20!										
Brand Management Suppliers Management Product Management										
Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country		
15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States		
16	Balistreri-Parker	mscrymgeourf...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States		
17	Haverson-Brown	scancellarisogfde...	941-595-3363	5963 Ramsey Point	Naples	Florida	34102	United States		
18	McLaughlin...	bqundersohf...	727-157-0953	0 Portage Way	Clewater	Florida	33763	United States		
19	Klein, Fisher and ...	asherymeij@hub.c...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States		
20	Agimba	dswetland@bred...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States		
21	Padberg, Nicolas ...	piggin@comet.e...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States		
22	Marquardt...	bwymer2@gm...g.org	651-770-7682	988 Paget Lane	Minneapolis	Minnesota	55402	United States		

Add Supplier      Edit Supplier      Delete Supplier

Supplier Name:

Contact Email:

Contact Phone:

Street:

City:

State:

Postal Code:

Country:

Save Changes

Supplier Name:

Contact Email:

Contact Phone:

Street:

City:

State:

Postal Code:

Country:

Save Changes

Welcome, jbohlingosen20!

Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country
15	Schmidt, Persian ...	wracee@gravat... ar.com	407-909-5529	178 South Junction	Orlando	Florida	32830	United States
16	Ballister-Parker	mscymgeour@f... t.com	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States
17	Halverson-Brown	scancellariop@de... m.com	941-695-3363	5963 Ramsey Point	Naples	Florida	34102	United States
18	McLaughlin-...	bgundersoh@w... e.com	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States
19	Klein, Fisher and ...	asheryne@hibu... c.com	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States
20	Agimba	dswetland@bred... d.com	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States
21	Padberg, Nicolas ...	piggin@comette... l.com	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States
22	Marquardt-...	bwymer2@gmpg... o.com	651-777-7777	988 Paget Lane	Minneapolis	Minnesota	55402	United States

Add Supplier

Supplier updated successfully!

OK

Contact Phone: 651-777-7777

Street: 988 Paget Lane

City: Minneapolis

State: Minnesota

Postal Code: 55402

Country: United States

Save Changes

Welcome, jbohlingosen20!

Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country
15	Schmidt, Persian ...	wracee@gravat... ar.com	407-909-5529	178 South Junction	Orlando	Florida	32830	United States
16	Ballister-Parker	mscymgeour@f... t.com	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States
17	Halverson-Brown	scancellariop@de... m.com	941-695-3363	5963 Ramsey Point	Naples	Florida	34102	United States
18	McLaughlin-...	bgundersoh@w... e.com	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States
19	Klein, Fisher and ...	asheryne@hibu... c.com	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States
20	Agimba	dswetland@bred... d.com	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States
21	Padberg, Nicolas ...	piggin@comette... l.com	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States
22	Marquardt-...	bwymer2@gmpg... o.com	651-777-7777	988 Paget Lane	Minneapolis	Minnesota	55402	United States

Add Supplier

Edit Supplier

Delete Supplier

Supplier Name:

Contact Email:

Contact Phone:

Street:

City:

State:

Postal Code:

Country:

Save Changes

- Delete supplier

Welcome, jbohingolzen2of

Admin Dashboard

Suppliers Management									
Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country	
15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States	
16	Balistreri-Parker	mscrgmgeoufr...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States	
17	Halvorson-Brown	scancellarisog@de...	941-695-3363	5963 Ramsey Point	Naples	Florida	34102	United States	
18	McLaughlin...	bgundersone@tw...	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States	
19	Klein, Fisher and ...	asheryne@hibuc...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States	
20	Agimba	dsweetland@red...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States	
21	Padberg, Nicolas ...	piggin@cornell...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States	
22	Marquardt...				Minneapolis	Minnesota	55402	United States	

Add Supplier

Are you sure you want to delete this supplier?

No Yes

Contact Phone: Contact Phone

Street: Street

City: City

State: State

Postal Code: Postal Code

Country: Country

Save Changes

Welcome, jbohingolzen2of

Admin Dashboard

Suppliers Management									
Supplier ID	Supplier Name	Contact Email	Contact Phone	Street	City	State	Postal Code	Country	
14	Jacobi-Tremblay	cgtlingd@jatnis...	321-577-0681	55 Marley Road	Melbourne	Florida	32919	United States	
15	Schmidt, Parisian ...	wracee@gravitar...	407-909-5529	178 South Junction	Orlando	Florida	32830	United States	
16	Balistreri-Parker	mscrgmgeoufr...	727-476-7681	52 Daystar Street	Saint Petersburg	Florida	33710	United States	
17	Halvorson-Brown	scancellarisog@de...	941-695-3363	5963 Ramsey Point	Naples	Florida	34102	United States	
18	McLaughlin...	bgundersone@tw...	727-157-0953	0 Portage Way	Clearwater	Florida	33763	United States	
19	Klein, Fisher and ...	asheryne@hibuc...	352-541-4426	8335 Northfield ...	Gainesville	Florida	32610	United States	
20	Agimba	dsweetland@red...	808-104-0379	99 Almo Circle	Honolulu	Hawaii	96805	United States	
21	Padberg, Nicolas ...	piggin@cornell...	309-343-3562	5 Shoshone ...	Bloomington	Illinois	61709	United States	

The supplier has been deleted successfully.

OK

Contact Phone: Contact Phone

Street: Street

City: City

State: State

Postal Code: Postal Code

Country: Country

Save Changes

## Product Management Page

- Provides an interface to manage product records.

Welcome, jbohlingosen2of

Admin Dashboard

		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
1	1		BLU Dash X		1539.44	BLU	Denesik, Winder and Smitham
2	2		Motorola E770		987.87	Motorola	Torphy, Price and McClure
3	3		alcatel Fierce 2		271.67	alcatel	Johnston, Glover and Nader
4	4		Lenovo Vibe K5		381.66	Lenovo	Altowirth, Hansen and ...
5	5		Qtek 2020		590.44	Qtek	Legros, Stanton and ...
6	6		Sewon SRS-3300		1521.17	Sewon	Friesen, Duran and Moran
7	7		Panasonic Eluga Icon		982.96	Panasonic	Erdman-Littel
8	8		Microsoft Surface 2		1965.94	Microsoft	McLaughlin-Petberg
9	9		Micromax X277		391.52	Micromax	Witting-Kreiger
10	10		BLU Dual SIM Lite		950.22	BLU	Denesik, Winder and Smitham
11	11		Emporia Elegance		102.67	Emporia	Muller Inc
12	12		Ulefone Armor 3W		651.72	Ulefone	Pouros-Larkin

Add Product      Edit Product      Delete Product

Product Name:

Description:

Price:

Brand:  alcatel

Supplier:  Agima

Save Changes

- Add Product

Welcome, jbohlingosen2of

Admin Dashboard

		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
22	22		Ericsson T10s		1134.65	Ericsson	Altowirth, Hansen and ...
23	23		Sony Xperia acro HD SOI12		350.45	Sony	Legros, Stanton and ...
24	24		Samsung Galaxy J5		1201.61	Samsung	Friesen, Duran and Moran
25	25		Samsung S5230 Star		1427.15	Samsung	Friesen, Duran and Moran
26	26		Xiaomi Redmi Note 10		1871.65	Xiaomi	Erdman-Littel
27	27		Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader
28	28		Nokia E62		1242.54	Nokia	McLaughlin-Petberg
29	29		Huawei G5500		488.01	Huawei	Luetgen-Considine
30	30		Philips Xenium K690		257.00	Philips	Witting-Kreiger
31	34		verykool i280	Android 5.0	965.45	BLU	Denesik, Winder and Smitham
32	35		Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin
33	36		Galaxy S24		1500.00	Samsung	Schiller-Russel

Add Product      Edit Product      Delete Product

Product Name:  Galaxy S 23

Description:  Android

Price:  1400

Brand:  Samsung

Supplier:  Pouros-Larkin

Save Changes

Welcome, jbohlingosen2@...

Admin Dashboard

		Brand Management	Suppliers Management	Product Management			
		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
22	22		Ericsson T10s		1134.65	Ericsson	Altenerwirth, Hansen and ...
23	23		Sony Xperia acro HD SOH12		350.45	Sony	Legros, Stanton and ...
24	24		Samsung Galaxy J5		1201.61	Samsung	Friesen, Durjan and Morar
25	25		Samsung S5230 Star		1422.13	Samsung	Friesen, Durjan and Morar
26	26		Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel
27	27		Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader
28	28		Nokia E62		1242.54	Nokia	McLaughlin-Padberg
29	29		Huawei G5500		488.01	Huawei	Luetten-Considine
30	30		Philips Xenium K600		257.00	Philips	Witting-Kreiger
31	34		verykool i280	Android 5.0	965.45	BLU	Denesik, Winder and Smitham
32	35		Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin
33	36		Galaxy S24		1500.00	Samsung	Schiller-Russel
34	37		Galaxy S23	Android	1400.00	Samsung	Pouros-Larkin

Product saved successfully!

OK

Add Product      Delete Product

Product Name: Galaxy S23  
 Description: Android  
 Price: 1400  
 Brand: Samsung  
 Supplier: Pouros-Larkin

Save Changes

Logout

Welcome, jbohlingosen2@...

Admin Dashboard

		Brand Management	Suppliers Management	Product Management			
		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23	23		Sony Xperia acro HD SOH12		350.45	Sony	Legros, Stanton and ...
24	24		Samsung Galaxy J5		1201.61	Samsung	Friesen, Durjan and Morar
25	25		Samsung S5230 Star		1422.13	Samsung	Friesen, Durjan and Morar
26	26		Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel
27	27		Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader
28	28		Nokia E62		1242.54	Nokia	McLaughlin-Padberg
29	29		Huawei G5500		488.01	Huawei	Luetten-Considine
30	30		Philips Xenium K600		257.00	Philips	Witting-Kreiger
31	34		verykool i280	Android 5.0	965.45	BLU	Denesik, Winder and Smitham
32	35		Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin
33	36		Galaxy S24		1500.00	Samsung	Schiller-Russel
34	37		Galaxy S23	Android	1400.00	Samsung	Pouros-Larkin

Add Product      Edit Product      Delete Product

Product Name:   
 Description:   
 Price:   
 Brand:   
 Supplier:

Save Changes

Logout

- Edit Product

Admin Dashboard

Welcome, jbohlingosen2of!

		Brand Management		Suppliers Management		Product Management	
		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23	23	Sony Xperia acro HD SOH12		350.45		Sony	Legros, Stanton and ...
24	24	Samsung Galaxy J5		1201.61		Samsung	Friesen, Duran and Morar
25	25	Samsung S5230 Star		1427.13		Samsung	Friesen, Duran and Morar
26	26	Xiaomi Redmi Note 10		1871.63		Xiaomi	Erdman-Littel
27	27	Nokia C1-01		1447.65		Nokia	Johnston, Glover and Nader
28	28	Nokia E62		1242.54		Nokia	McLaughlin-Pedberg
29	29	Huawei G5500		488.01		Huawei	Luetgen-Considine
30	30	Philips Xenium K600		257.00		Philips	Witting-Kreiger
31	34	verykool i280	Android 5.0	965.45		BLU	Denesik, Winder and Smitham
32	35	Galaxy S25	new phones	1799.99		Samsung	Pouros-Larkin
33	36	Galaxy S24		1950.00		Samsung	Schiller-Russel
34	37	Galaxy S 23	Android	1400.00		Samsung	Pouros-Larkin

Add Product      Edit Product      Delete Product

Product Name: Galaxy S 23  
 Description: Android  
 Price: 1300.00  
 Brand: Samsung  
 Supplier: Pouros-Larkin

Save Changes

Logout

Admin Dashboard

Welcome, jbohlingosen2of!

		Brand Management		Suppliers Management		Product Management	
		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23	23	Sony Xperia acro HD SOH12		350.45		Sony	Legros, Stanton and ...
24	24	Samsung Galaxy J5		1201.61		Samsung	Friesen, Duran and Morar
25	25	Samsung S5230 Star		1427.13		Samsung	Friesen, Duran and Morar
26	26	Xiaomi Redmi Note 10		1871.63		Xiaomi	Erdman-Littel
27	27	Nokia C1-01		1447.65		Nokia	Johnston, Glover and Nader
28	28	Nokia E62		1242.54		Nokia	McLaughlin-Pedberg
29	29	Huawei G5500		488.01		Huawei	Luetgen-Considine
30	30	Philips Xenium K600		257.00		Philips	Witting-Kreiger
31	34	verykool i280	Android 5.0	965.45		BLU	Denesik, Winder and Smitham
32	35	Galaxy S25		1799.99		Samsung	Pouros-Larkin
33	36	Galaxy S24		1950.00		Samsung	Schiller-Russel
34	37	Galaxy S 23	Android	1400.00		Samsung	Pouros-Larkin

Add Product      Delete Product

Product updated successfully!

OK

Product Name: Galaxy S 23  
 Description: Android  
 Price: 1300.00  
 Brand: Samsung  
 Supplier: Pouros-Larkin

Save Changes

Logout

Welcome, jbohlingosen20!

		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23	23	Sony Xperia acro HD SOH12		350.45	Sony	Legros, Stanton and ...	
24	24	Samsung Galaxy J5		1201.61	Samsung	Friesen, Durjan and Morar	
25	25	Samsung S5230 Star		142713	Samsung	Friesen, Durjan and Morar	
26	26	Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel	
27	27	Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader	
28	28	Nokia E62		1242.54	Nokia	McLaughlin-Pedberg	
29	29	Huawei G5500		488.01	Huawei	Luetgen-Considine	
30	30	Philips Xenium K600		257.00	Philips	Witting-Kreiger	
31	34	verykool i20	Android 5.0	965.45	BLU	Denesik, Winder and Smitham	
32	35	Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin	
33	36	Galaxy S24		1500.00	Samsung	Schiller-Russel	
34	37	Galaxy S 23	Android	1300.00	Samsung	Pouros-Larkin	

Add Product      Edit Product      Delete Product

Product Name:  Product Name  
 Description:   
 Price:   
 Brand:

Supplier:

Save Changes

Logout

- Delete Product

Welcome, jbohlingosen20!

		Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23	23	Sony Xperia acro HD SOH12		350.45	Sony	Legros, Stanton and ...	
24	24	Samsung Galaxy J5		1201.61	Samsung	Friesen, Durjan and Morar	
25	25	Samsung S5230 Star		142713	Samsung	Friesen, Durjan and Morar	
26	26	Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel	
27	27	Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader	
28	28	Nokia E62		1242.54	Nokia	McLaughlin-Pedberg	
29	29	Huawei G5500		488.01	Huawei	Luetgen-Considine	
30	30	Philips Xenium K600		257.00	Philips	Witting-Kreiger	
31	34	verykool i20	Android 5.0	965.45	BLU	Denesik, Winder and Smitham	
32	35	Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin	
33	36	Galaxy S24		1500.00	Samsung	Schiller-Russel	
34	37	Galaxy S 23	Android	1300.00	Samsung	Pouros-Larkin	

Are you sure you want to delete product 'Galaxy S 23'?

No      Yes

Add Product      Delete Product

Product Name:  Product Name  
 Description:   
 Price:   
 Brand:

Supplier:

Save Changes

Logout

Welcome, jbohlingosen2of

Admin Dashboard

		Brand Management		Suppliers Management		Product Management	
Admin Management							
User Management							
Order Management							
Product Management							
Inventory Management							
Stock Analysis							
Sales Performance							
Product Insights							
Customer Orders							
Market Trends							
Logout							

**Product Management**

Product ID	Product Name	Description	Price	Brand Name	Supplier Name
23 23	Sony Xperia acro HD SOI12		350.45	Sony	Legros, Stanton and ...
24 24	Samsung Galaxy J5		1201.61	Samsung	Friesen, Duran and Morar
25 25	Samsung S5230 Star		1427.13	Samsung	Friesen, Duran and Morar
26 26	Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel
27 27	Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader
28 28	Nokia E62		1242.54	Nokia	McLaughlin-Pedberg
29 29	Huawei G5500		488.01	Huawei	Luetgen-Considine
30 30	Philips Xenium K600		257.00	Philips	Witting-Kreiger
31 34	verykool i280	verykool i280	5	BLU	Denesik, Winder and Smitham
32 35	Galaxy S25		199.00	Samsung	Pouros-Larkin
33 36	Galaxy S24		1799.99	Samsung	Schiller-Russel
34 37	Galaxy S23		1500.00	Samsung	Pouros-Larkin

**Product Management**

Product deleted successfully.

OK

Add Product      Delete Product

Product Name:

Description:

Price:

Brand:

Supplier:

Save Changes

Welcome, jbohlingosen2of

Admin Dashboard

		Brand Management		Suppliers Management		Product Management	
Admin Management							
User Management							
Order Management							
Product Management							
Inventory Management							
Stock Analysis							
Sales Performance							
Product Insights							
Customer Orders							
Market Trends							
Logout							

**Product Management**

Product ID	Product Name	Description	Price	Brand Name	Supplier Name
22 22	Ericsson T10s		1134.65	Ericsson	Altenwerth, Hansen and ...
23 23	Sony Xperia acro HD SOI12		350.45	Sony	Legros, Stanton and ...
24 24	Samsung Galaxy J5		1201.61	Samsung	Friesen, Duran and Morar
25 25	Samsung S5230 Star		1427.13	Samsung	Friesen, Duran and Morar
26 26	Xiaomi Redmi Note 10		1871.63	Xiaomi	Erdman-Littel
27 27	Nokia C1-01		1447.65	Nokia	Johnston, Glover and Nader
28 28	Nokia E62		1242.54	Nokia	McLaughlin-Pedberg
29 29	Huawei G5500		488.01	Huawei	Luetgen-Considine
30 30	Philips Xenium K600		257.00	Philips	Witting-Kreiger
31 34	verykool i280	Android 5.0	965.45	BLU	Denesik, Winder and Smitham
32 35	Galaxy S25	new phones	1799.99	Samsung	Pouros-Larkin
33 38	Galaxy S24		1500.00	Samsung	Schiller-Russel

**Product Management**

Add Product      Edit Product      Delete Product

Product Name:

Description:

Price:

Brand:

Supplier:

Save Changes

## Inventory Management(inventory\_management.py)

Manages inventory records; allows adding new stock (with dialogs for product selection), editing existing stock, and deletion.

Welcome, jbohingosen2o!

	Inventory ID	Product ID	Product Name	Stock Quantity
1	1	1	BLU Dash X	89
2	2	2	Motorola E770	90
3	3	3	alcatel Fierce 2	84
4	4	4	Lenovo Vibe K5	95
5	5	5	Qték 2020	91
6	6	6	Sewon SRS-3300	93
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coolpad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Maxwest Astro 6s	98
17	17	17	Motorola Motoluxe MT680	97
18	18	18	ZTE nubia N2	94
19	19	19	vivo Xplay8	93
20	20	20	Huawei P7	96
21	21	21	Nokia C5-06	95
22	22	22	Ericsson T10s	92
23	23	23	Sony Xperia acro HD SOH12	120
24	24	24	Samsung Galaxy J5	97
25	25	25	Samsung S5230 Star	100

[Logout](#) [Add Stock](#) [Edit Stock](#) [Delete Stock](#)

- Add Stock

Welcome, jbohingosen2o!

Admin Dashboard

	Inventory ID	Product ID	Product Name	Stock Quantity
6	6	6	Sewon SRS-3300	93
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coolpad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Maxwest Astro 6s	98
17	17	17	Motorola Motoluxe MT680	97
18	18	18	ZTE nubia N2	94
19	19	19	vivo Xplay8	93
20	20	20	Huawei P7	96
21	21	21	Nokia C5-06	95
22	22	22	Ericsson T10s	92
23	23	23	Sony Xperia acro HD SOH12	120
24	24	24	Samsung Galaxy J5	97
25	25	25	Samsung S5230 Star	100
26	26	26	Xiaomi Redmi Note 10	98
27	27	27	Nokia C1-01	92
28	28	28	Nokia E62	89
29	29	29	Galaxy S25	200
30	34	36	Galaxy S24	120

[Logout](#) [Add Stock](#) [Edit Stock](#) [Delete Stock](#)

Welcome, jbohlingosen2of

Admin Dashboard

A modal dialog box is centered over the table, displaying the message "Added 100 units for product ID 30." It features a white background, a small exclamation mark icon, and a green "OK" button.

	Inventory ID	Product ID	Product Name	Stock Quantity
6	6	6	Sewon SRS-3300	93
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coopad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Astro 6s	98
17	17	17	Motolux MT680	97
18	18	18	Nokia N2	94
19	19	19	vivo V9	93
20	20	20	NOKIA C5-06	96
21	21	21	Ericsson T10s	95
22	22	22	Sony Xperia acro HD SOH12	120
23	23	23	Samsung Galaxy J5	97
24	24	24	Samsung S5230 Star	100
25	25	25	Xiaomi Redmi Note 10	98
26	26	26	Nokia C1-01	92
27	27	27	Nokia E62	89
28	28	28	Galaxy S25	200
29	33	35	Galaxy S24	120
30	34	36	Galaxy S24	120

Logout      Add Stock      Edit Stock      Delete Stock

Welcome, jbohlingosen2of

Admin Dashboard

The row corresponding to product ID 30 (Philips Xenium K800) is highlighted with a blue background.

	Inventory ID	Product ID	Product Name	Stock Quantity
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coopad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Maxwest Astro 6s	98
17	17	17	Motorola Motolux MT680	97
18	18	18	ZTE nubia N2	94
19	19	19	vivo Vplay6	93
20	20	20	Honor P7	96
21	21	21	Nokia C5-06	95
22	22	22	Ericsson T10s	92
23	23	23	Sony Xperia acro HD SOH12	120
24	24	24	Samsung Galaxy J5	97
25	25	25	Samsung S5230 Star	100
26	26	26	Xiaomi Redmi Note 10	98
27	27	27	Nokia C1-01	92
28	28	28	Nokia E62	89
29	33	35	Galaxy S25	200
30	34	36	Galaxy S24	120
31	35	30	Philips Xenium K800	100

Logout      Add Stock      Edit Stock      Delete Stock

- Edit Stock

Admin Dashboard				
Welcome, jbohlingosen2of!				
Inventory Management				
Product ID				
Inventory ID	Product ID	Product Name	Stock Quantity	Actions
6	6	Sewon SRS-3300	93	
7	7	Panasonic Eluga Icon	98	
8	8	Microsoft Surface 2	120	
9	9	Micromax X277	97	
10	10	BLU Dual SIM Lite	120	
11	11	Emporia Elegance	95	
12	12	Ulefone Armor 3W	98	
13	13	ZTE Chorus	87	
14	14	Coopad Shine	98	
15	15	HTC Desire 19+	97	
16	16	west Astro 5s	98	
17	17	Ora Motorola MT680	97	
18	18	nubia N2	94	
19	19	Xplay6	93	
20	20	v P7	96	
21	21	Nokia C5-06	95	
22	22	Ericsson T10s	92	
23	23	Sony Xperia acro HD SOI12	120	
24	24	Samsung Galaxy J6	97	
25	25	Samsung S5230 Star	100	
26	26	Xiaomi Redmi Note 10	98	
27	27	Nokia C1-01	92	
28	28	Nokia E62	89	
29	33	Galaxy S25	200	
30	34	Galaxy S24	100	

[Logout](#) [Add Stock](#) [Edit Stock](#) [Delete Stock](#)

Admin Dashboard				
Welcome, jbohlingosen2of!				
Inventory Management				
Product ID				
Inventory ID	Product ID	Product Name	Stock Quantity	Actions
6	6	Sewon SRS-3300	93	
7	7	Panasonic Eluga Icon	98	
8	8	Microsoft Surface 2	120	
9	9	Micromax X277	97	
10	10	BLU Dual SIM Lite	120	
11	11	Emporia Elegance	95	
12	12	Ulefone Armor 3W	98	
13	13	ZTE Chorus	87	
14	14	Coopad Shine	98	
15	15	HTC Desire 19+	97	
16	16	west Astro 5s	98	
17	17	Ora Motorola MT680	97	
18	18	nubia N2	94	
19	19	Xplay6	93	
20	20	v P7	96	
21	21	Nokia C5-06	95	
22	22	Ericsson T10s	92	
23	23	Sony Xperia acro HD SOI12	120	
24	24	Samsung Galaxy J6	97	
25	25	Samsung S5230 Star	100	
26	26	Xiaomi Redmi Note 10	98	
27	27	Nokia C1-01	92	
28	28	Nokia E62	89	
29	33	Galaxy S25	200	
30	34	Galaxy S24	100	

[Logout](#) [Add Stock](#) [Edit Stock](#) [Delete Stock](#)

! Updated stock of Galaxy S24 to 120.
 

Cancel
OK

Welcome, jbohlingosen2@!

Admin Dashboard

	Inventory ID	Product ID	Product Name	Stock Quantity
6	6	6	Sewon SRS-3300	93
7	7	7	Panasonic Eluga Icon	96
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coopad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Maxwest Astro 5s	98
17	17	17	Motorola Motoluxe MT680	97
18	18	18	ZTE nubia N2	94
19	19	19	vivo Xplay8	93
20	20	20	Honor P7	96
21	21	21	Nokia C5-06	95
22	22	22	Ericsson T10s	92
23	23	23	Sony Xperia acro HD SOH12	120
24	24	24	Samsung Galaxy J5	97
25	25	25	Samsung S5230 Star	100
26	26	26	Xiaomi Redmi Note 10	98
27	27	27	Nokia C1-01	92
28	28	28	Nokia E62	89
29	33	35	Galaxy S25	200
30	34	36	Galaxy S24	120

Logout      Add Stock      Edit Stock      Delete Stock

- Delete Stock

Welcome, jbohlingosen2@!

Admin Dashboard

	Inventory ID	Product ID	Product Name	Stock Quantity
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coopad Shine	98
15	15	15	HTC Desire 19+	97
16	16	16	Astro 5s	98
17	17	17	Motoluxe MT680	97
18	18	18	n2	94
19	19	19	/6	93
20	20	20	96	96
21	21	21	06	95
22	22	22	Ericsson T10s	92
23	23	23	Sony Xperia acro HD SOH12	120
24	24	24	Samsung Galaxy J5	97
25	25	25	Samsung S5230 Star	100
26	26	26	Xiaomi Redmi Note 10	98
27	27	27	Nokia C1-01	92
28	28	28	Nokia E62	89
29	33	35	Galaxy S25	200
30	34	36	Galaxy S24	120
31	35	30	Philips Xenium K600T	100

No      Yes

Logout      Add Stock      Edit Stock      Delete Stock

Welcome, jbohlingosen2@...

Admin Dashboard

	Inventory ID	Product ID	Product Name	Stock Quantity
7	7	7	Panasonic Eluga Icon	98
8	8	8	Microsoft Surface 2	120
9	9	9	Micromax X277	97
10	10	10	BLU Dual SIM Lite	120
11	11	11	Emporia Elegance	95
12	12	12	Ulefone Armor 3W	98
13	13	13	ZTE Chorus	87
14	14	14	Coolpad Shine	98
15	15	15	HTC Desire 19+	97
16	16		Astro 5s	98
17	17		Motolux MT680	97
18	18		N2	94
19	19		6	93
20	20		6	96
21	21		Ericsson T10s	92
22	22		Sony Xperia acro HD SOH12	120
23	23	23	Samsung Galaxy J5	97
24	24	24	Samsung S5230 Star	100
25	25	25	Xiaomi Redmi Note 10	98
26	26	26	Nokia E62	89
27	27	27	Galaxy S25	200
28	28	28	Galaxy S24	120
29	33	35	Philips Xenium K600	100
30	34	36		
31	35	30		

Stock for Philips Xenium K600 deleted successfully.

OK

Add Stock Edit Stock Delete Stock

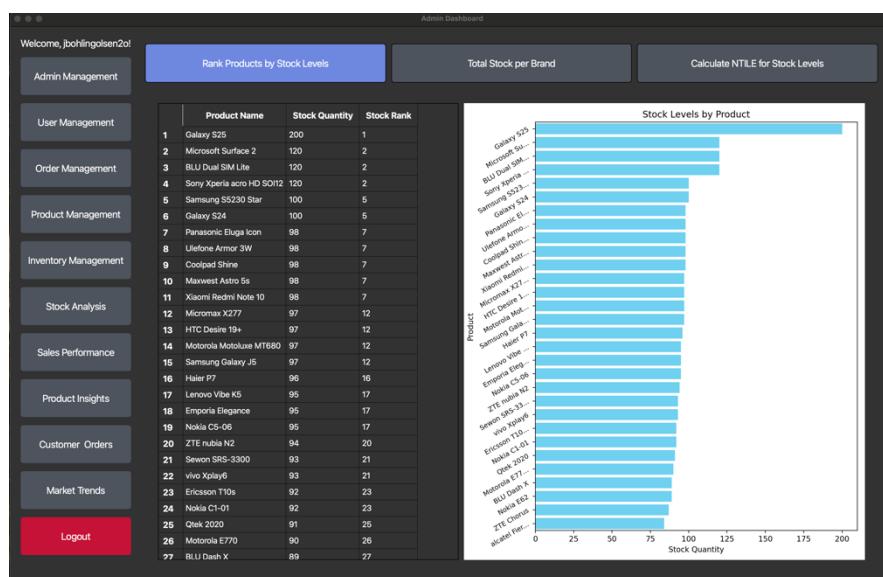
## Analytics Reports (analytics\_report)

### Stock Analysis (stock\_analysis.py):

The Stock Analysis module provides an analytics interface that examines product inventory levels and distribution. Built with PyQt and Matplotlib with NumPy and Pandas support, it offers a multi-tabbed dashboard to help administrators and analysts understand stock performance through various metrics and visualizations.

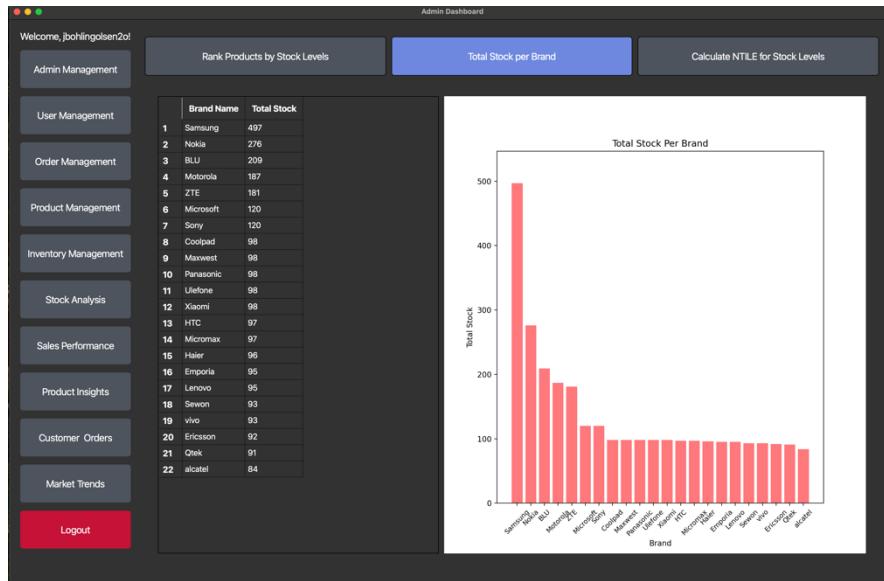
#### Rank Products by Stock Levels

- Displays a ranking of products based on their stock quantities.



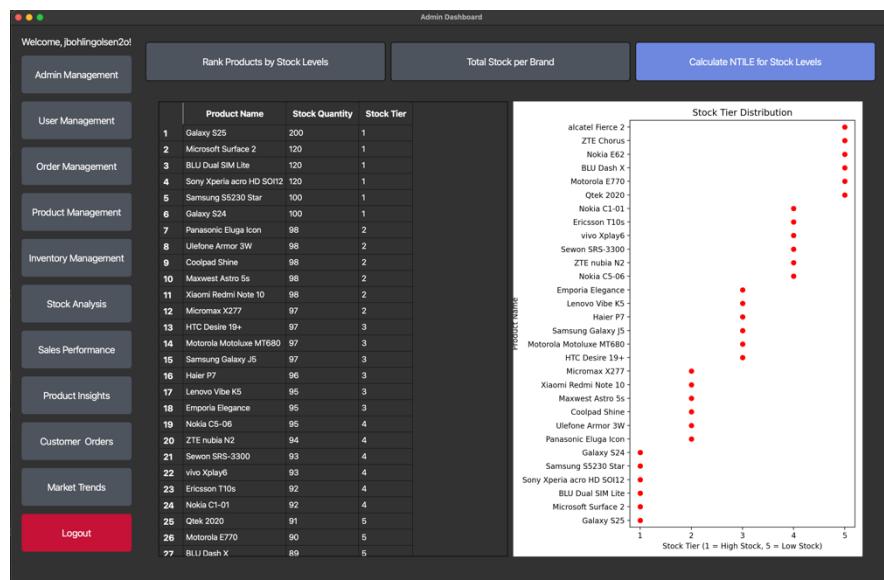
## Total Stock per Brand

- Provides an overview of overall inventory levels aggregated by brand.



## Calculate NTILE for Stock Levels

- Divides products into stock tiers using the NTILE window function.



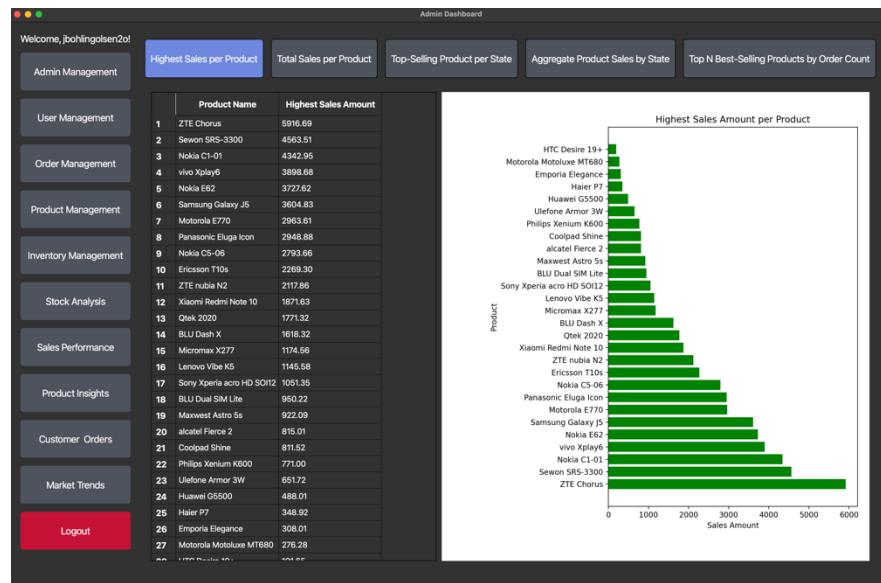
## Sales Performance(sales\_performance.py):

The Sales Performance module provides a multi-tabbed analytical interface for exploring various aspects of sales performance across products and states. Built with PyQt and

Matplotlib and using supporting libraries like NumPy, Pandas, and Seaborn, this module displays sales data in both tabular form and as interactive charts. It enables administrators or analysts to gain insights into product performance, overall sales trends, and market dynamics.

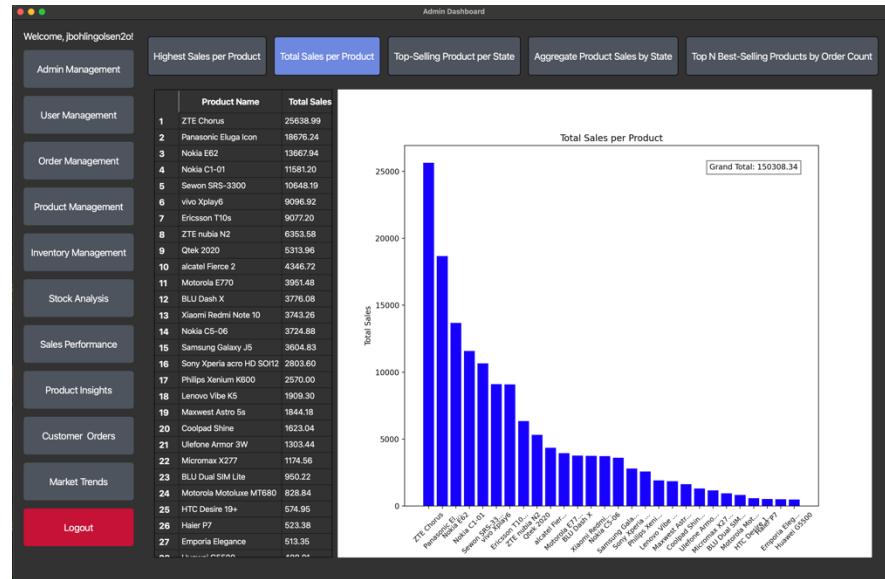
### *Highest Sales per Product*

- Retrieves the maximum (highest) sales amount for each product by querying the order\_items and products tables. Results are displayed in a two-column table (Product Name and Highest Sales Amount).
- A horizontal bar chart is generated to illustrate the highest sales amount per product. Bars are colored green, and the chart includes labels and a title.



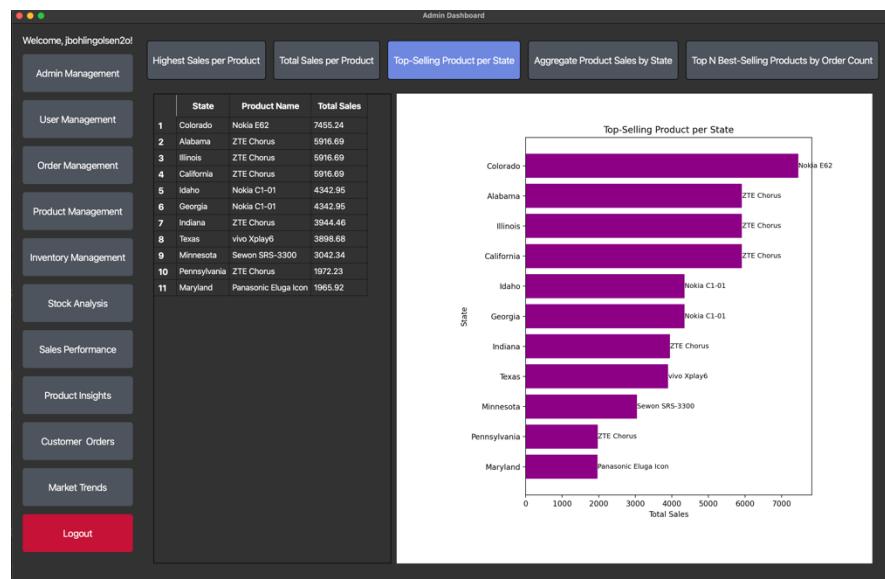
### *Total Sales per Product*

- Aggregates total sales for each product using a query with WITH ROLLUP to compute a grand total. The table displays product names and their corresponding total sales. If present, the grand total is appended as the final row.
- A bar chart shows the total sales per product. Product names are shortened if too long, and the grand total is annotated separately on the chart.



## Top-Selling Product per State

- Identifies, for each state, the product with the highest sales by comparing total sales within each state. The table shows the state, the top-selling product name, and its total sales.
- A horizontal bar chart plots the top-selling product for each state. Each bar's length represents total sales, and product names are annotated alongside the bars.



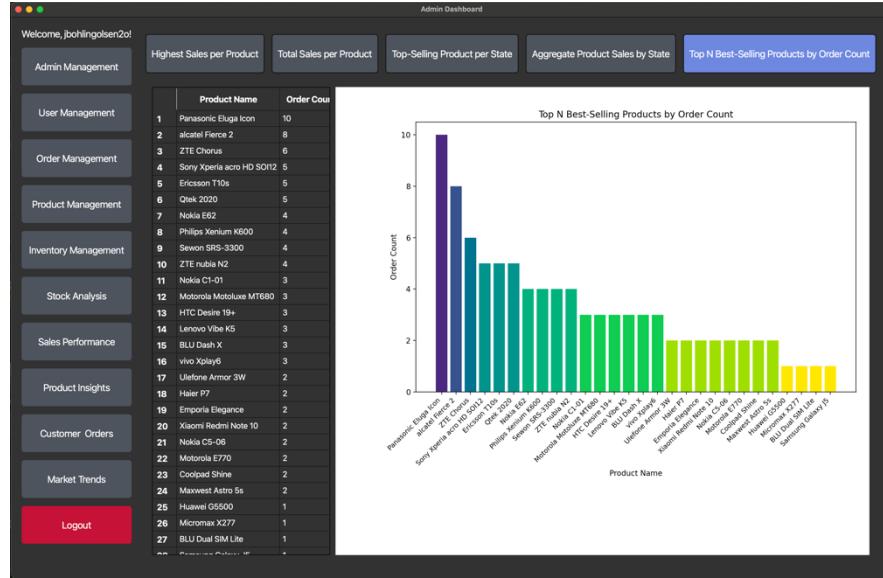
## Aggregated Product Sales by State

- Aggregates sales data by product and state using a query with WITH ROLLUP, resulting in grouped data. The table lists each product, the state, and the total sales for that grouping.
- A stacked bar chart is generated to visualize the breakdown of product sales across different states. The chart uses distinct colors for each state and includes legends and axis labels.



## Top N Best-Selling Products by Order Count

- Counts the number of orders per product and ranks products by order count using window functions (DENSE\_RANK). The table displays the product name, order count, and sales rank.
- A heatmap is plotted to visually represent the rankings of the top-selling products. The heatmap uses a color gradient via the Viridis colormap based on sales rank, with product names displayed along the x-axis and order counts on the y-axis.

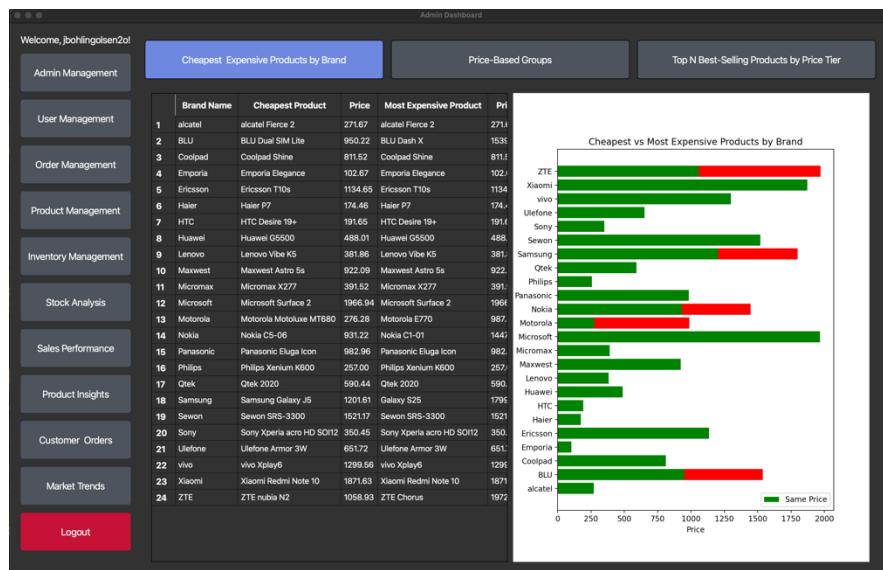


## Product Insights(product\_insights.py):

The Product Insights module provides a multi-tabbed analytical interface that offers deep insights into product performance based on pricing and sales data. Using PyQt for its GUI and Matplotlib/Seaborn for visualizations, the module is designed to help analysts explore product pricing dynamics and sales trends.

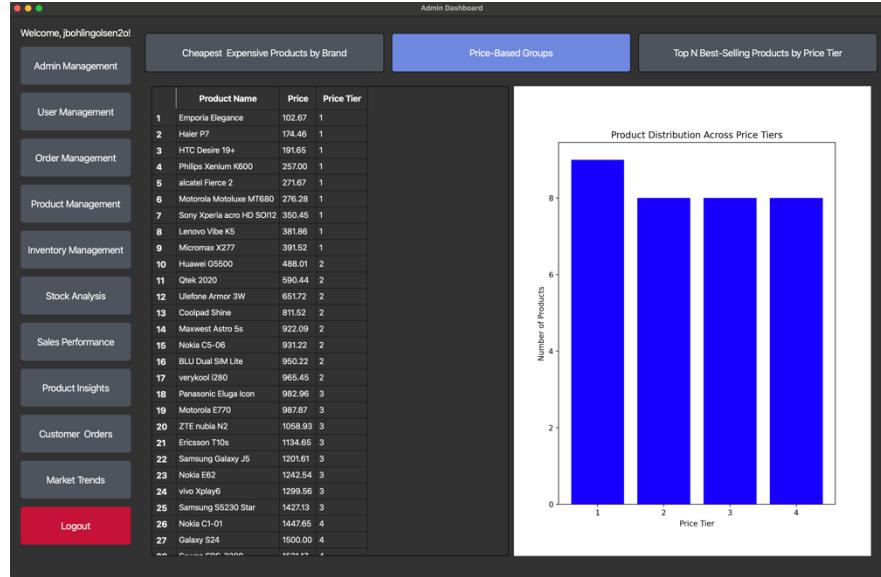
### Cheapest & Most Expensive Products by Brand

- Uses a SQL query with window functions (including FIRST\_VALUE and LAST\_VALUE) to determine the cheapest and most expensive products for each brand.
- Generates a grouped horizontal bar chart - The cheapest product portion is green and the difference up to the most expensive price is shown in red.



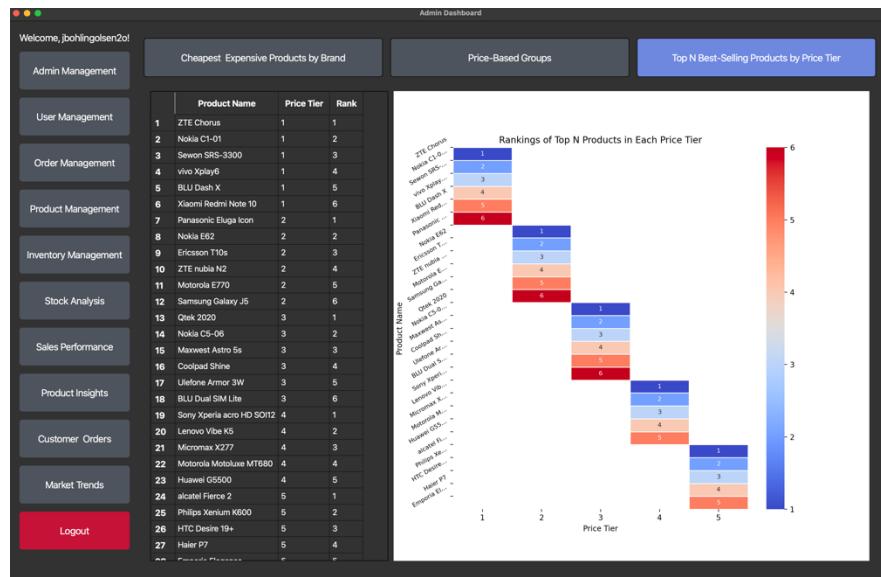
## Price-Based Groups

- Groups products into four price tiers using a window function (NTILE).
- Plots a bar chart showing the distribution of products across the different price tiers.



## Top N Best-Selling Products by Price Tier

- Aggregates total sales per product from order items, groups products into five price tiers using NTILE, and ranks products within each tier using DENSE\_RANK.
- Generates a heatmap (using Seaborn) that visualizes the rankings of the top N best-selling products for each price tier.

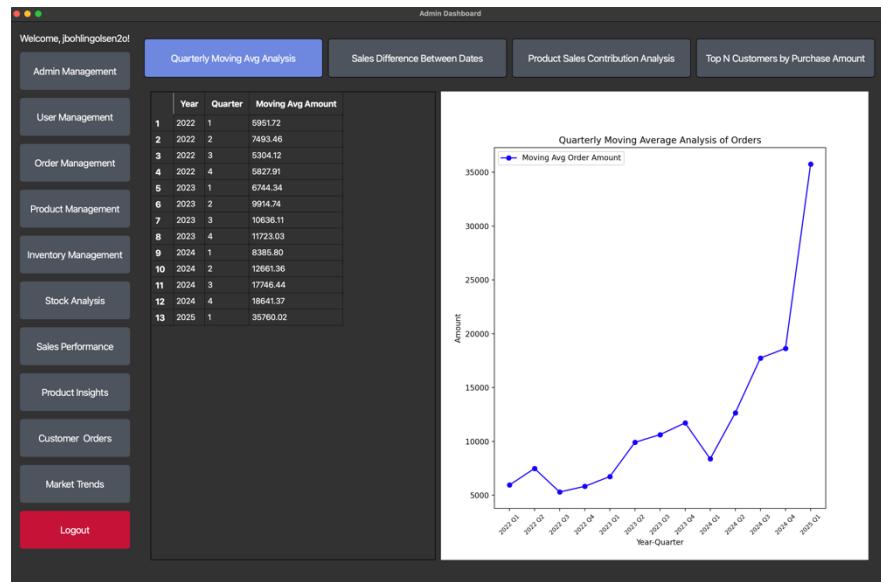


## Customer Orders(customer\_orders.py):

The module provides a multi-tabbed user interface that displays several analytical reports related to customer purchasing behavior and order flow. The module uses a combination of PyQt for the UI and Matplotlib for data visualization.

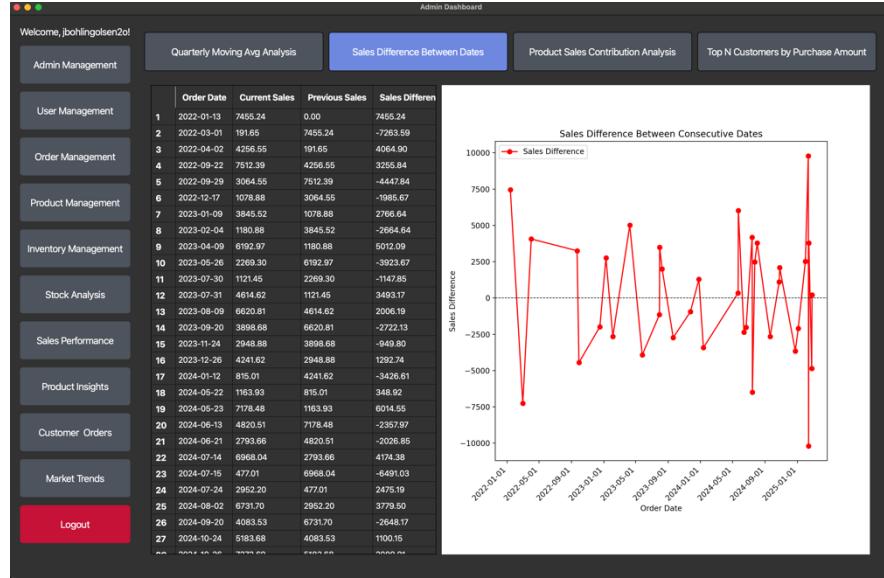
### Quarterly Moving Average Analysis

- The module runs a query that groups orders by year and quarter, calculates total order amounts, and computes a moving average (using a window function).
- A QTableWidget displays the raw data (Year, Quarter, Moving Avg Amount), and a Matplotlib line plot visualizes the trend over time.



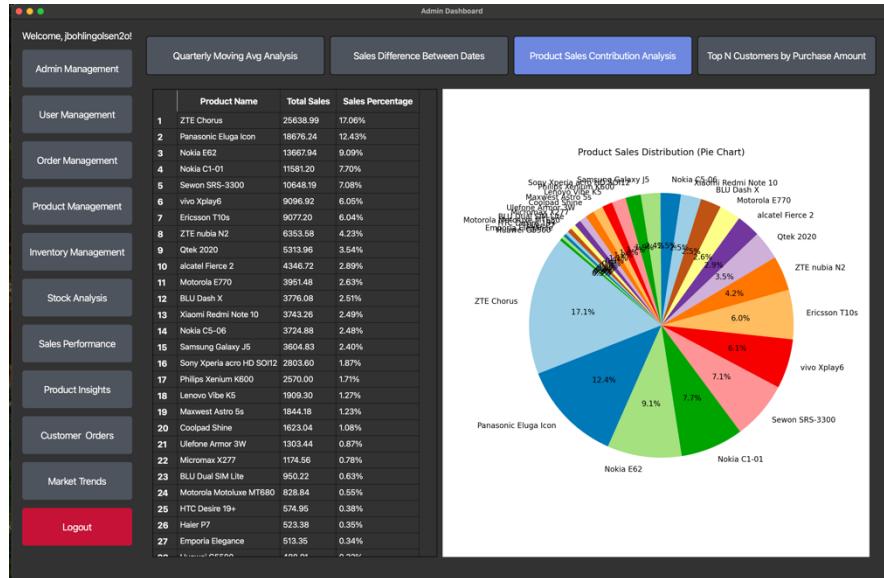
### Sales Difference Between Dates

- Uses a common table expression (CTE) to compute daily sales and then calculates the difference between consecutive days.
- A table shows the daily sales figures (current, previous, and difference), and a line plot with a horizontal zero line highlights the sales trend and fluctuations.



## Product Sales Contribution Analysis

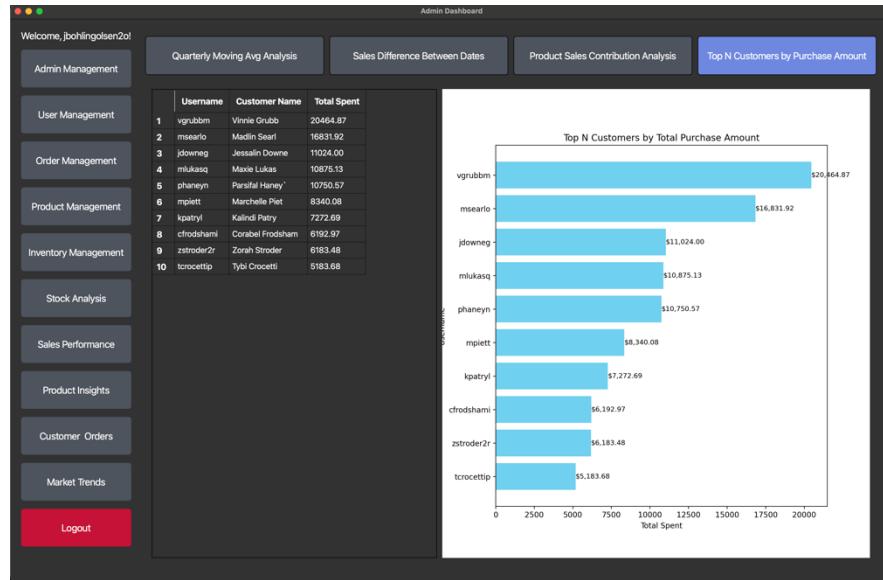
- Aggregates sales by product and calculates each product's percentage contribution to the overall sales.
- Depending on the selected chart type (defaulting to a pie chart), the module displays a pie (or bar) chart alongside a table listing product sales figures.



## Top N Customers by Purchase Amount

- Queries the database to rank customers based on their total purchase amounts using window functions.

- The module displays a table of the top customers and generates a horizontal bar chart to illustrate the spending amounts.

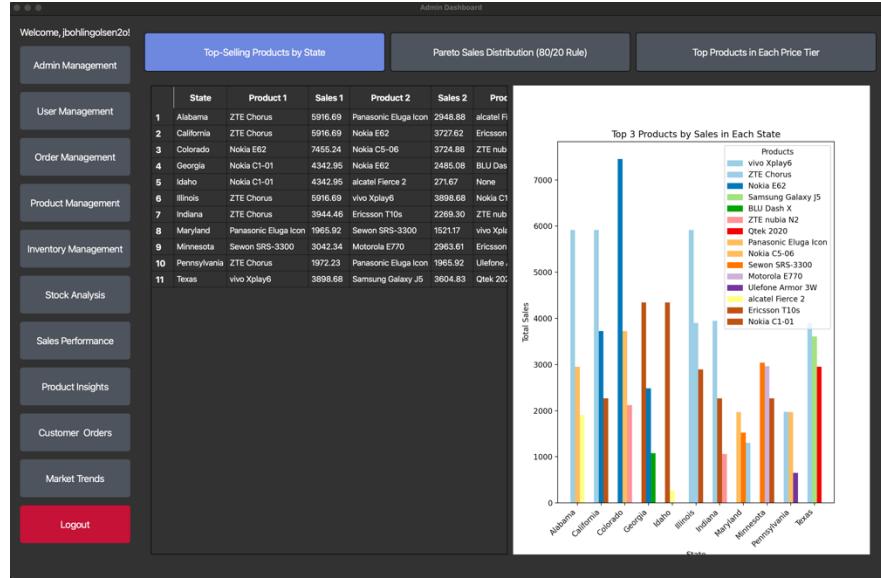


## Market Trends(`market_trends.py`)

The Market Trends module provides a multi-tabbed analytical interface that visualizes various market trends based on order and sales data. Built using PyQt and Matplotlib, the module presents data both in tabular format and as interactive charts to help analysts monitor product performance and market dynamics.

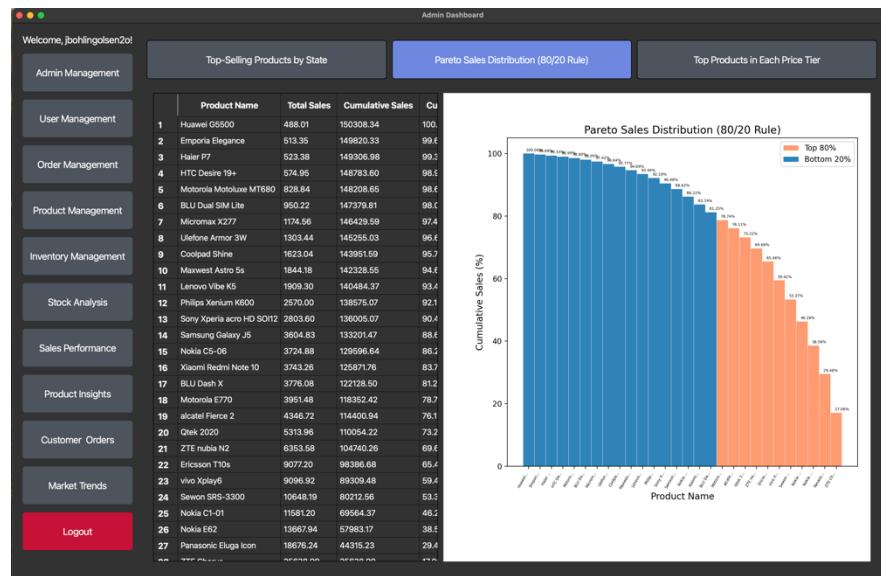
### *Top-Selling Products by State*

- Uses a SQL query with window functions to rank products by total sales within each state, then selects the top three products per state.
- A grouped bar chart is generated where each state is represented on the x-axis and the sales figures of the top three products are displayed in different colors.



## Pareto Sales Distribution (80/20 Rule)

- Computes daily product sales using a common table expression (CTE) and calculates cumulative sales percentages, classifying products into "Top 80%" or "Bottom 20%" based on the Pareto principle.
- A bar chart is plotted to depict the cumulative sales percentages. Bars are colored differently depending on whether they fall within the top 80% or bottom 20%, with numerical percentages displayed above each bar.



## Top Products in Each Price Tier

- Aggregates product sales and groups products into five price tiers using NTILE, then ranks products within each tier. It calculates interquartile ranges (IQR) to identify outliers.
- Generates a box plot for each price tier to illustrate the distribution of sales, with outliers highlighted and labeled as "High Impact" if they fall outside the IQR thresholds.

