

Advanced Web Application Development

CS 621

Project Work

UAB Store

Online wearables and accessories store

Submitted by

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1. Introduction:

UAB Store is an E-Commerce website which is dedicated to Accessories and Wearables where users can access websites and select the variety of products based on their taste and order whatever they want, users can select a number of products at a time and place it in cart and order all at once by clicking on the proceed/quick checkout button.

A brief explanation of our project:

- **Sign-in/Sign-up:**

We have 2 different types of users, one is admin and the other is customer, customers have to create their own account by using the Sign-up page and have to login to place the order and access their orders. Admins logins can be signup as a user first and once approved by the web admin, he can get the admin permissions. The admins can now have an additional access to inventory management and other store managerial activities which are not accessible to regular users.

- **View Menu:**

The menu consists of all the 5 categories of products which are cameras, watches, glasses, jewelry and headphones. These are listed and categorized with view of prices, model image, whether or not if the product is on sale and with the option to select the product.

- **Filter by Category:**

In this option we provide the users with option to categorize by the product category or by sale or according to their pricing as well. Users/consumers can find and compare the products of the same category by price, model, look and other aspects to ease the decision of purchase.

- **Add to Cart:**

This functionality notifies the customer with the count of the products added to the cart and when they proceed to checkout it redirects to the payment page. If the customer wants to continue their shopping, it redirects to the main page where all the product cards are displayed. Also, if the user wants to make changes to the cart, he can do it. He can update the quantity or

delete the product and the price of the cart gets updated according to the quantity and price of each item. Additionally, cart option is also available at the top-right of the page.

- **Payment Details:**

After the customers are ready to checkout by adding items to the cart, they are now proceeded to the payment page and the card details are to be provided in order to pay for the products that you added to the cart, when you are done with the payment you are now redirected to the thankyou page.

- **Placing Order:**

After the user selects items from the list and adds them to the cart, they can proceed to checkout. Once an order is placed, the inventory decrements the quantity of the purchased items. If the count of an item reaches zero, it is moved to 'out of stock' status unless the admin updates the inventory by adding more items.

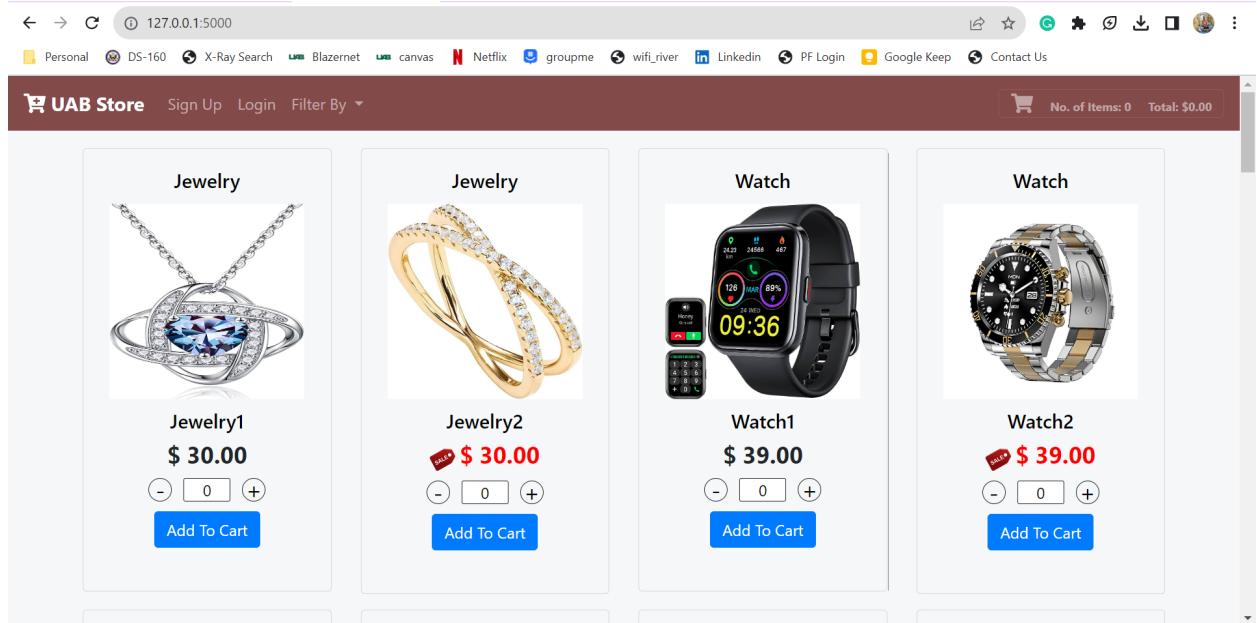
Technologies Used:

- **Backend:**
 - Python-Flask: Flask is a lightweight and flexible framework that allows many functionalities like Routing, extensibility. It also provides lightweight and minimal design and allows communication with different front-end functionalities smoothly and also provides high level of customization.
- **Database:**
 - SQLite database is easy to setup as it is serverless database, we don't need to set up a different database. It is very much suitable for local data storage and management.

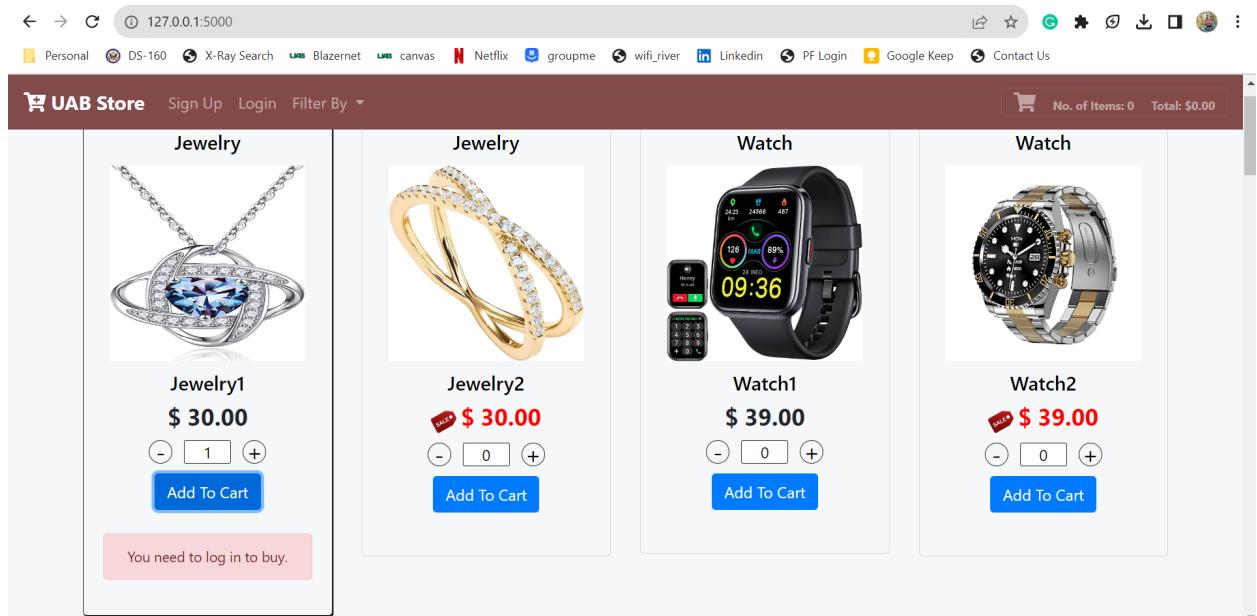
- **Frontend:**
- **HTML:**
 - HTML to structure our website pages efficiently. It enabled us to create index page, payment page ,thankyou page and other pages efficiently.
- **CSS:**
 - With the help of CSS we made our website more appealing and took care of design and colors, so the customers can easily identify different functionalities all together.
- **JavaScript and jQuery:**
 - jQuery simplifies the interaction with HTML DOM trees and the JavaScript file to validate the login and registration details of the user.

2. Screenshots:

I. Home Page:



II. Login to Buy:



III. Register/Sign-up:

127.0.0.1:5000/new/

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UAB Store

Register

Username
Password
Confirm Password
First Name
Last Name
Email

Clear Register

Already have an account? [Click here to Login](#)



IV. Log-in Page:

127.0.0.1:5000/login/

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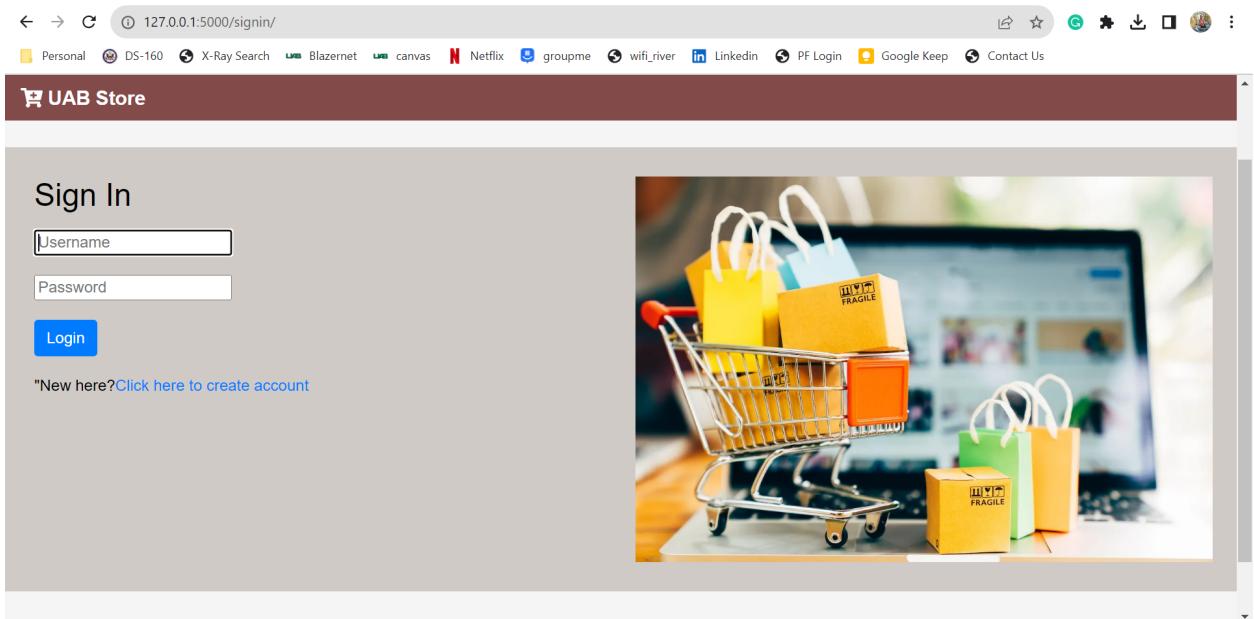
Welcome to UAB Store.

User Login : [Click here](#)

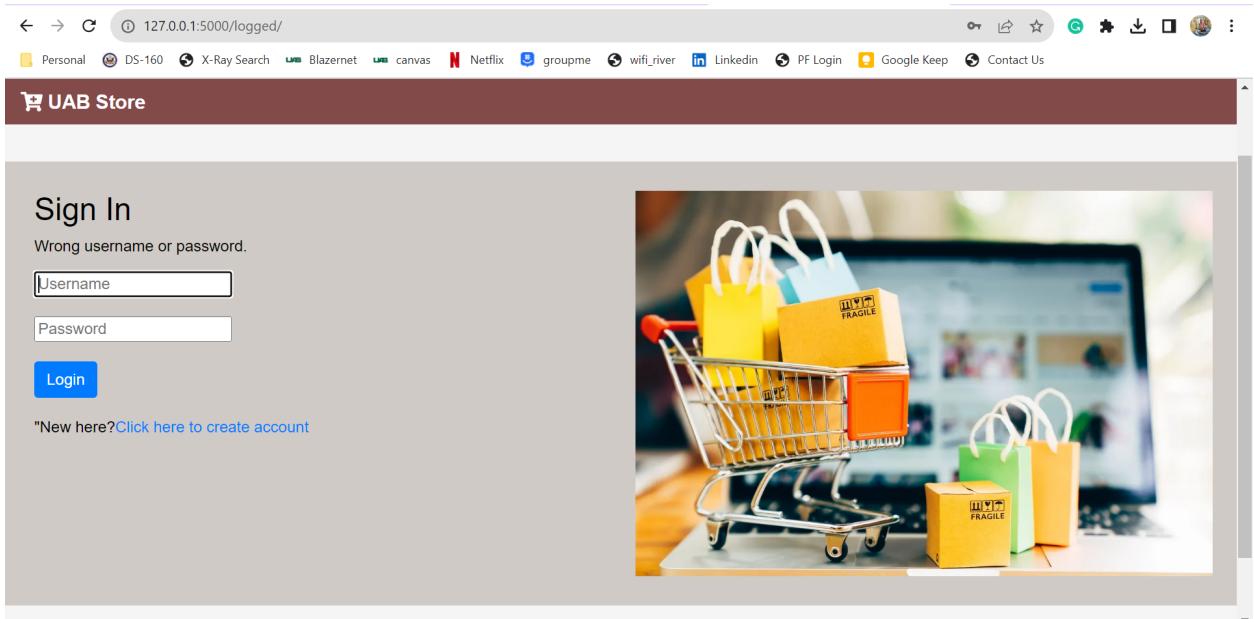
Admin Login : [Click here](#)



V. User Log-in:



VI. Wrong Credentials:



VII. User sucessful Log-in/User Dashboard:

The screenshot shows a web browser window for the 'UAB Store'. The URL is 127.0.0.1:5000/logged/. The page title is 'UAB Store'. The top navigation bar includes links for Personal, DS-160, X-Ray Search, Blazernet, canvas, Netflix, groupme, wifi_river, LinkedIn, PF Login, Google Keep, Contact Us, Logout, Orders, and Filter By. A shopping cart icon indicates 0 items with a total of \$0.00. A yellow banner at the top says 'Welcome, naresh' and 'Hope you have a pleasant experience shopping with us.' Below the banner is a grid of four camera products:

Camera	Camera	Camera	Camera
Camera1 \$ 78.00 Add To Cart	Camera2 \$ 89.00 Add To Cart	Camera3 \$ 69.00 Add To Cart	Camera4 \$ 89.00 Add To Cart

VIII. Add to cart:

The screenshot shows the same 'UAB Store' dashboard after adding Camera1 to the cart. The quantity for Camera1 is now 2, indicated by the number '2' in the quantity input field. The other three cameras remain at quantity 0.

← → ⌛ ① 127.0.0.1:5000/buy/?quantity=1&id=7&loggedin=1

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UAB Store Logout Orders Filter By ▾

No. of Items: 7 Total: \$492.00

Shopping Cart

#	Item	Name	Quantity	Unit Price	Sub-Total
1		Camera1	2	\$78.00	\$156.00
2		Camera2	2	\$89.00	\$178.00
3		Glasses1	1	\$59.00	\$59.00
4		Headphone3	1	\$69.00	\$69.00
5		Jewelry1	1	\$30.00	\$30.00

Total: \$492.00

MAKE CHANGES **CONTINUE SHOPPING** **QUICK CHECKOUT**

81°F Add To Cart Add To Cart Add To Cart Add To Cart

Search

5:01 PM

IX. Changes in Add to Cart:

← → ⌛ ① 127.0.0.1:5000/cart/

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UAB Store Logout Orders Filter By ▾

No. of Items: 7 Total: \$492.00

Cart

#	Item	samplename	Quantity	Unit Price	Sub-Total		
1		Camera1	<input type="text" value="2"/>	UPDATE	\$78.00	\$156.00	Remove
2		Camera2	<input type="text" value="2"/>	UPDATE	\$89.00	\$178.00	Remove
3		Glasses1	<input type="text" value="1"/>	UPDATE	\$59.00	\$59.00	Remove
4		Headphone3	<input type="text" value="1"/>	UPDATE	\$69.00	\$69.00	Remove
5		Jewelry1	<input type="text" value="1"/>	UPDATE	\$30.00	\$30.00	Remove

Total: \$492.00

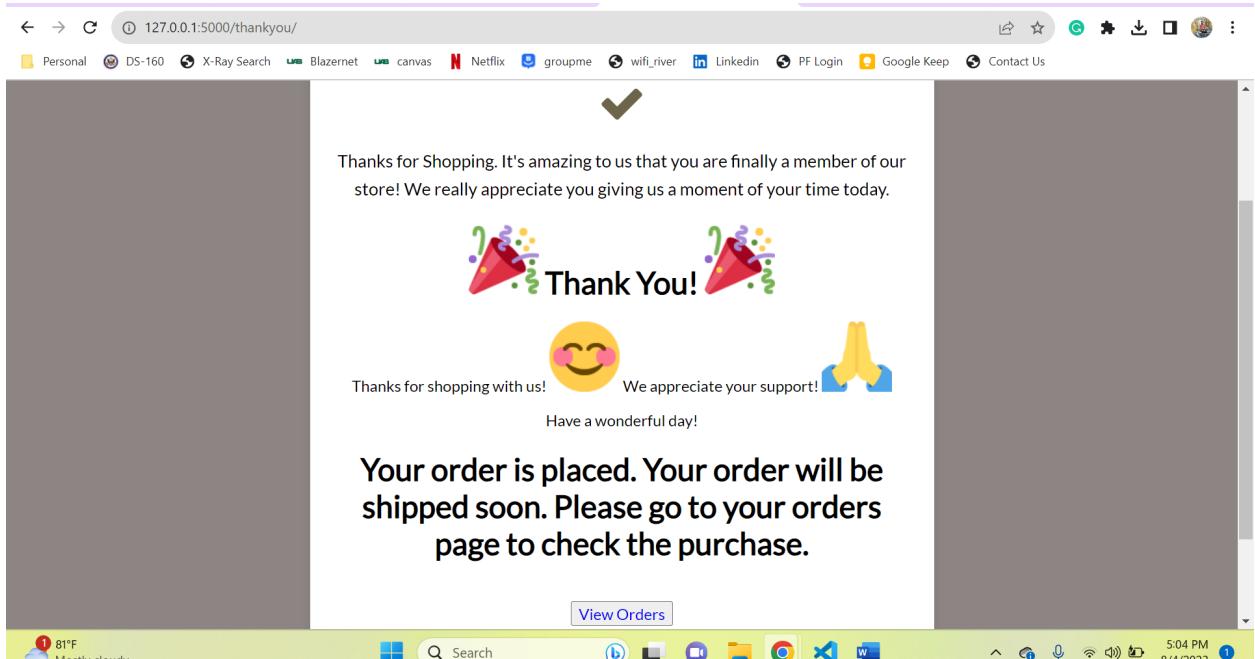
CONTINUE SHOPPING **PROCEED TO CHECKOUT**

Connect with us on...

X. Checkout-Payment page:

The screenshot shows a payment form titled "Card Details". It includes fields for Card Number (1234123412341234), Card Holder (Sai Naresh N), Expiration Date (January 2023), and CVC (123). A note states "Three digit number usually found on the back of the card". A green "Pay" button is at the bottom.

XI. Order Successfully Placed:



XII. Empty Cart after Checkout:

The screenshot shows a web browser window for the "UAB Store". The URL is 127.0.0.1:5000. The page displays a "Welcome, naresh" message. A central modal window titled "Shopping Cart" is open, showing the message "Your cart is empty :(". Below this, there is a placeholder text "Get some items now!" and a blue "Continue Shopping" button. The background of the page shows a grid of product cards, each featuring a camera image and a price of \$89.00. The top navigation bar includes links for "Logout", "Orders", and "Filter By". The bottom right corner of the screen shows the time as 5:04 PM.

XIII. Purchase History:

The screenshot shows a web browser window for the "UAB Store". The URL is 127.0.0.1:5000/history/. The page title is "Your Purchase History". It displays a table of past purchases with columns for #, Item, Name, Quantity, Date, and a "Buy Again" button. The purchases listed are: Camera1 (Quantity 2, Date 2023-08-04 17:04:06), Camera2 (Quantity 2, Date 2023-08-04 17:04:06), Glasses1 (Quantity 1, Date 2023-08-04 17:04:06), Headphone3 (Quantity 1, Date 2023-08-04 17:04:06), Jewelry1 (Quantity 1, Date 2023-08-04 17:04:06), Camera1 (Quantity 1, Date 2023-08-04 16:35:02), and Camera1 (Quantity 1, Date 2023-08-04 16:31:57). The top navigation bar includes links for "Logout", "Orders", and "Filter By". The bottom right corner of the screen shows the time as 5:04 PM.

#	Item	Name	Quantity	Date	
1		Camera1	2	2023-08-04 17:04:06	<button>Buy Again</button>
2		Camera2	2	2023-08-04 17:04:06	<button>Buy Again</button>
3		Glasses1	1	2023-08-04 17:04:06	<button>Buy Again</button>
4		Headphone3	1	2023-08-04 17:04:06	<button>Buy Again</button>
5		Jewelry1	1	2023-08-04 17:04:06	<button>Buy Again</button>
6		Camera1	1	2023-08-04 16:35:02	<button>Buy Again</button>
7		Camera1	1	2023-08-04 16:31:57	<button>Buy Again</button>

XIV. Product Classification (Filger By)/Checking every filter:

The screenshot shows a product listing page for cameras. A sidebar on the left is titled "Filter By" and contains the following options: All, Cameras, Jewelry, Headphones, Watches, Glasses, On Sale, and Price \$0-\$1000. The main content area displays four camera products:

- Camera1**: Canon EOS 70D, \$78.00. Status: **Sale!** Add To Cart button.
- Camera2**: Canon EOS 70D, \$89.00. Status: **Sale!** Add To Cart button.
- Camera3**: Sony Alpha 7R II, \$69.00. Status: **Sale!** Add To Cart button.
- Camera4**: Nikon D7100, \$89.00. Status: **Sale!** Add To Cart button.

The URL in the address bar is 127.0.0.1:5000/#.

All products:

The screenshot shows a product listing page displaying a mix of camera and jewelry items. The main content area shows the following products:

- Camera5**: PENTAX K-30, \$79.00. Status: **Sale!** Add To Cart button.
- Camera6**: Fujifilm Instax Mini 11, \$79.00. Status: **Sale!** Add To Cart button.
- Jewelry1**: Diamond necklace, \$30.00. Status: **Sale!** Add To Cart button.
- Jewelry2**: Gold ring, \$30.00. Status: **Sale!** Add To Cart button.

The URL in the address bar is 127.0.0.1:5000/#.

Only Cameras:

← → ⌂ ① 127.0.0.1:5000/filter/?typeProduct=camera

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

			
Camera1 \$ 78.00 \$ 78.00 (-) 0 (+) Add To Cart	Camera2 \$ 89.00 \$ 89.00 (-) 0 (+) Add To Cart	Camera3 \$ 69.00 \$ 69.00 (-) 0 (+) Add To Cart	Camera4 \$ 89.00 \$ 89.00 (-) 0 (+) Add To Cart
			

81°F 5:09 PM

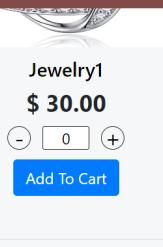
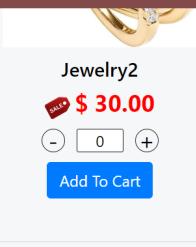
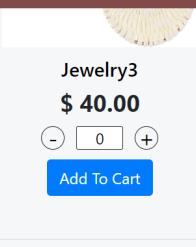
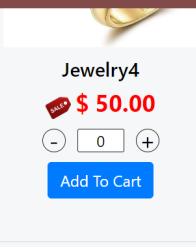
Only Jewelry:

← → ⌂ ① 127.0.0.1:5000/filter/?typeProduct=jewelry

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

			
Jewelry1 \$ 30.00 (-) 0 (+) Add To Cart	Jewelry2 \$ 30.00 \$ 30.00 (-) 0 (+) Add To Cart	Jewelry3 \$ 40.00 (-) 0 (+) Add To Cart	Jewelry4 \$ 50.00 \$ 50.00 (-) 0 (+) Add To Cart
			

Only Headphones:

127.0.0.1:5000/filter/?typeProduct=headphone

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

Headphone1 \$ 69.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Headphone2 \$ 79.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Headphone3 \$ 69.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Headphone4 \$ 79.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>
Headphone		Headphone	

Only Watches:

127.0.0.1:5000/filter/?typeProduct=watch

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

Watch1 \$ 39.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Watch2 \$ 39.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Watch3 \$ 59.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>	Watch4 \$ 59.00 <input type="button" value="-"/> <input type="text" value="0"/> <input type="button" value="+"/> <input type="button" value="Add To Cart"/>
Watch			

Only Glasses:

← → ⌂ 127.0.0.1:5000/filter/?typeProduct=glasses

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

Glasses1 \$ 59.00 \$ 59.00 (-) 0 (+) Add To Cart	Glasses2 \$ 79.00 \$ 79.00 (-) 0 (+) Add To Cart	Glasses3 \$ 69.00 \$ 69.00 (-) 0 (+) Add To Cart	Glasses4 \$ 59.00 \$ 59.00 (-) 0 (+) Add To Cart

Glasses

On Sale:

← → ⌂ 127.0.0.1:5000/filter/?sale=1

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

Headphone1 \$ 69.00 \$ 69.00 (-) 0 (+) Add To Cart	Headphone3 \$ 69.00 \$ 69.00 (-) 0 (+) Add To Cart	Headphone6 \$ 69.00 \$ 69.00 (-) 0 (+) Add To Cart	Jewelry2 \$ 30.00 \$ 30.00 (-) 0 (+) Add To Cart

Price Range(00-100):

127.0.0.1:5000/filter/?price=1

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UAB Store Logout Orders Filter By

No. of Items: 0 Total: \$0.00

\$ 30.00 Add To Cart	\$ 30.00 Add To Cart	\$ 39.00 Add To Cart	\$ 39.00 Add To Cart
Jewelry  Jewelry3 \$ 40.00	Jewelry  Jewelry4 \$ 50.00	Watch  Watch3 \$ 59.00	Watch  Watch4 \$ 59.00

XV. Admin dashboard after admin login:

127.0.0.1:5000/adminlogged/

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UAB Store Logout Orders Inventory Filter By

No. of Items: 0 Total: \$0.00

Admin Dashboard

Welcome, Admin! Here you can manage the products in the store.

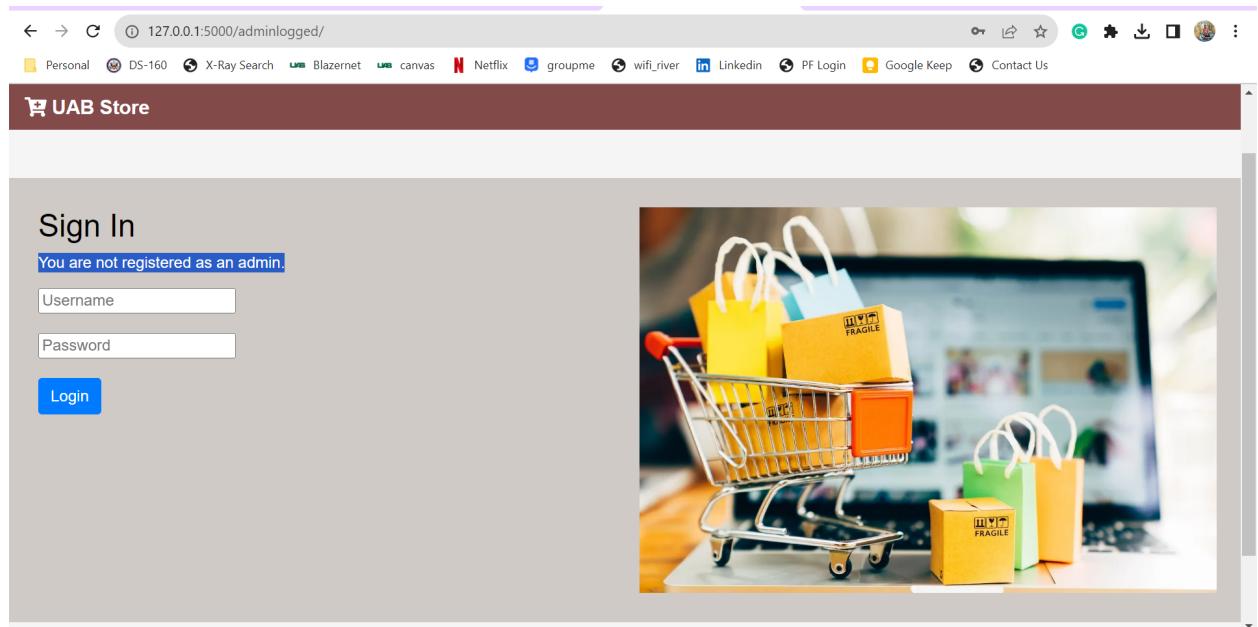
#	Item	Image	Name	Price	Sale Price	Quantity
---	------	-------	------	-------	------------	----------

Connect with us on:
[!\[\]\(e22ced917bd746bab8a8bcb940bf4a1a_img.jpg\)](#) [!\[\]\(0ebf3f9f6e49e9383215c359d6d92943_img.jpg\)](#) [!\[\]\(7e13409480a9e0a00ad84d3a2a18a0f6_img.jpg\)](#) [!\[\]\(c3c7aa4d731fe2b03345c11e9fdc1354_img.jpg\)](#)

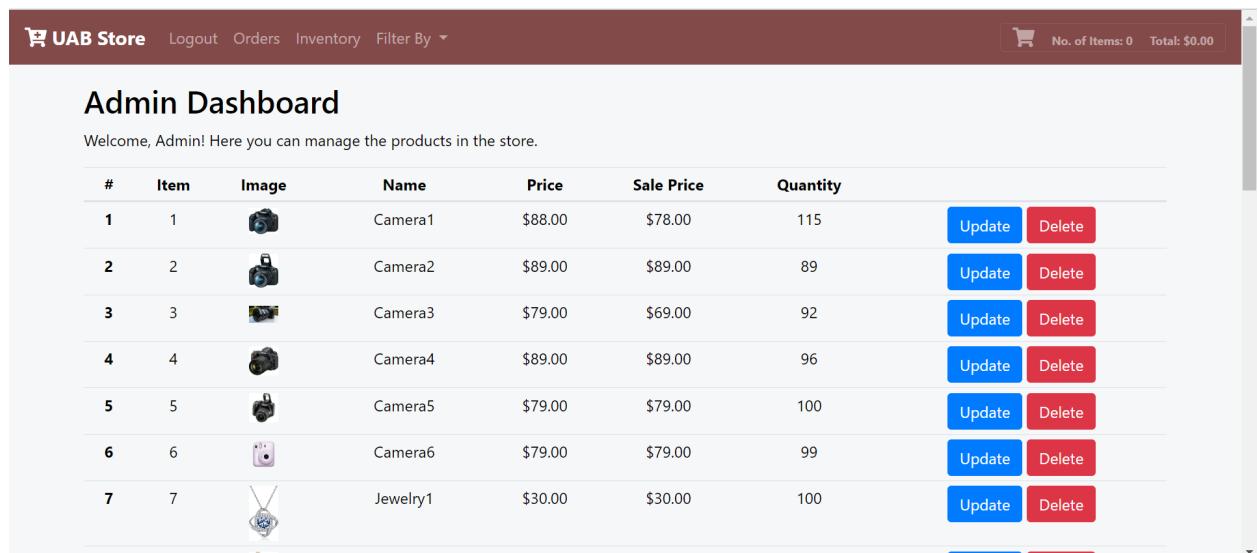
Contact us:
[!\[\]\(6a5b34b8bdb086bb967bfa9ad5d6fba8_img.jpg\)](#)

About us:
add some points about our product.

XVI. If user is not an admin:



XVII. Inventory:



#	Item	Image	Name	Price	Sale Price	Quantity	Actions
1	1		Camera1	\$88.00	\$78.00	115	<button>Update</button> <button>Delete</button>
2	2		Camera2	\$89.00	\$89.00	89	<button>Update</button> <button>Delete</button>
3	3		Camera3	\$79.00	\$69.00	92	<button>Update</button> <button>Delete</button>
4	4		Camera4	\$89.00	\$89.00	96	<button>Update</button> <button>Delete</button>
5	5		Camera5	\$79.00	\$79.00	100	<button>Update</button> <button>Delete</button>
6	6		Camera6	\$79.00	\$79.00	99	<button>Update</button> <button>Delete</button>
7	7		Jewelry1	\$30.00	\$30.00	100	<button>Update</button> <button>Delete</button>

XVIII. Inventory Update:

Sale Price:
78.0

Quantity:
120

Update

Connect with us on:



Contact us:



About us:

add some points about our product.

XIX. Inventory Update sucessful:

#	Item	Image	Name	Price	Sale Price	Quantity	Actions
1	1		Camera1	\$88.00	\$78.00	120	<button>Update</button> <button>Delete</button>
2	2		Camera2	\$89.00	\$89.00	89	<button>Update</button> <button>Delete</button>
3	3		Camera3	\$79.00	\$69.00	92	<button>Update</button> <button>Delete</button>
4	4		Camera4	\$89.00	\$89.00	96	<button>Update</button> <button>Delete</button>
5	5		Camera5	\$79.00	\$79.00	100	<button>Update</button> <button>Delete</button>
6	6		Camera6	\$79.00	\$79.00	99	<button>Update</button> <button>Delete</button>
7	7		Jewelry1	\$30.00	\$30.00	100	<button>Update</button> <button>Delete</button>

XX. About us and join us:

The screenshot shows a web browser window with the URL 127.0.0.1:5000. The page title is "UAB Store". The main content displays three products: "Glasses3" (\$69.00), "Glasses4" (\$59.00), and "Glasses5" (\$69.00). Each product has a quantity selector (0) and an "Add To Cart" button. Below the products, there is a green sidebar with the text "Connect with us on:" followed by icons for LinkedIn, Facebook, Instagram, and Twitter. It also includes a "Contact us:" section with a phone icon and a "About us:" button.

Glasses3
\$ 69.00
(-) 0 (+)
Add To Cart

Glasses4
\$ 59.00
(-) 0 (+)
Add To Cart

Glasses5
\$ 69.00
(-) 0 (+)
Add To Cart

Connect with us on:
in f i t
Contact us:
About us:

An exclusive store to UAB blazers for more meaningful buying. Cameras and other accessories available for you in numerous options and affordable prices.

XXI. Contact us:

The screenshot shows a web browser window with the URL 127.0.0.1:5000/contactus/. The page title is "Contact Us". The main content is a form for users to leave information. It includes fields for "Name" (Sai Naresh), "Email" (jobs.sainaresh@gmail.com), and "Description" (containing the text "hi"). There is a "Submit" button at the bottom right of the form area.

Contact Us

If you have any queries please leave your information below, we will contact you back as soon as possible:

Name:
Sai Naresh

Email:
jobs.sainaresh@gmail.com

Description:
hi

Submit

We have received your request. A representative will assist you with the same within 2 working days.

[Go to homepage](#)

3. Future Works:

1. Creating a Wishlist to each user.
2. Notifying the admin about any orders placed.
3. Offering various payment options for the customers according to their preferences and implementing different modes of payment.
4. Notifying the customer about their order and sending SMS and email of their shipment.
5. Personalized recommendations to learn more about the customer through their history of purchases.
6. Chat bot integration to help the customer's interaction with the website easier.
7. Customer reviews and feedback page for further developments of our website
8. Integrating Alexa or Siri to improve users' interaction with the website.

4. References:

1. https://thumbor.forbes.com/thumbor/fit-in/1290x/https://www.forbes.com/advisor/wp-content/uploads/2022/08/Image - E-Commerce_Website.jpeg.jpg
2. Images from bing.com
3. <https://www.freecodecamp.org/news/how-to-build-a-web-application-using-flask-and-deploy-it-to-the-cloud-3551c985e492/>
4. <https://github.com/codewithsadee/anon-ecommerce-website.git>
5. <https://stackoverflow.com/questions/66043216/add-to-cart-buttons-functionality>