

The Pro Shop

COSC 304 – Team 37

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GitHub Repository:

<https://github.com/cosc-304-2025/development-project-lab-7-10-team37>

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1 Our Goal

1.1 Mission Statement

To redefine the intersection of style and performance in golf apparel, empowering every golfer with high-quality, innovative clothing and exceptional service, ensuring they look great, feel confident, and focus entirely on their game.

”Play better. Feel better. Swing better.”

1.2 Executive Summary

The Pro Shop specializes in high-quality golf apparel designed to enhance both style and performance for golfers on and off the course. We provide an extensive selection of golf clubs, shirts, shorts, pants, and footwear, complemented by various accessories to optimize your game. Our garments feature breathable, sweat-stain-resistant material for enduring comfort. The shorts and pants incorporate stretch technology, ensuring maximum range of motion so that a polished appearance never restricts performance. For your assurance, all our apparel is backed by a 10-year warranty, covering seams and hems. Should any item experience tearing, simply return it to us for repair. Our commitment is to exceptional quality apparel and outstanding customer service, allowing you to concentrate fully on your game. By delivering superior products and services within the golfing domain, we aim to make excellent presentation and comfort a standard expectation in golf.

2 Features

Final Overall System Features	Cat.	Poss. Pts.	Pts.	Comments / Code Files
Documentation (15 total points)				
Executive Summary (up to 1 page)	Required	2	2	
System Features (2 pages)	Required	2	2	
List of Web and AI sources used	Required	3	3	
Walkthrough with screenshots (up to 15 pages)	Required	8	8	
Hosting (10 total points)				
Running on a cloud server	Adv.	10		
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	1	Lab 7
Browse products by category	Core	1	1	Lab 7
List products (by search/browse)	Core	1	1	Lab 7
List products with image	Core	1	1	Lab 8
Page header with menu	Basic	1	1	header.jsp
Page header shows the current logged-in user	Basic	1	1	Lab 8 & header.jsp
Dynamic products on homepage based on sales	Basic	2		
Improved UI (user-friendly, images, etc.)	Basic	2	2	Header.jsp, showcart.jsp, order.jsp, listorder.jsp: bootstrap styling, icons, cart badge, clean layouts
Product recommendation based on the user	Adv.	4		
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1	1	Lab 7 addcart.jsp
View shopping cart	Core	1	1	Lab 7 showcart.jsp
Update quantity (with data validation)	Basic	1	1	updatecart.jsp

Final Overall System Features	Cat.	Poss. Pts.	Pts.	Comments / Code Files
Remove item from shopping cart	Basic	1	1	removecart.jsp
Improved formatting/UI (e.g. in header bar)	Basic	1	1	header.jsp
Cart stored in database between sessions	Basic	3		
Checkout (up to 9 total points)				
Checkout with customer id	Core	1	1	Lab 7 order.jsp
Checkout with payment/shipment info	Basic	2		
Checkout with data validation	Basic	2	2	Order.jsp validates customer ID is numeric and exists in database
Multiple shipments per order supported	Adv.	2		Note: Requires DB change.
Calculate taxes/shipping (by items/state)	Adv.	2		Note: Requires DB change.
Product Detail Page (up to 2 total points)				
Product detail page and item description	Core	1	1	Lab 8 product.jsp - can change quantity, shows description, reviews, and can add to cart
Product detail has an image from database	Core	1	1	Lab 8 product.jsp image is displayed *Click on product to open product page
User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2	2	customer.jsp is the “view account” but register.jsp is the create account page with all fields to fill out
Create account with data validation	Basic	2	2	processRegister.jsp - Backend validation (password match, email format, required fields) register.jsp - create account page theproshop304@gmail.com sends a welcome email to your email when the account is registered
Edit user account info (address, password)	Basic	2	2	editAccount.jsp processEditAccount.jsp Edit form and backend processing with validation
Login/logout	Core	1	1	Lab 8 validateLogin.jsp, logout.jsp Authentication and session management

Final Overall System Features	Cat.	Poss. Pts.	Pts.	Comments / Code Files
Register user/Forgot password email	Adv.	4	4	Register.jsp and processRegister.jsp for registering user. processForgotPassword.jsp, resetPassword.jsp, processResetPassword.jsp, - email based password reset with tokens. Created an email theproshop304@gmail.com that sends password reset link to your email that can only be opened once and is valid for 24h which lets you reset password
Page listing all orders for logged in user	Basic	1	1	Listorder.jsp displays order history with product images and bundle details
Product Reviews (up to 5 total points)				
Ability to enter a review on a product	Basic	2	2	product.jsp, submitReview.jsp
Display product review on product detail page	Basic	1	1	product.jsp
Restrict to one review per user on item purchased	Adv.	2	2	submitReview.jsp
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2		
Edit item inventory by store/warehouse	Adv.	3		
Administrator Portal (up to 18 total points)				
Secured by login	Core	1	1	Lab 8 admin.jsp checks for user authentication
List all customers	Basic	1		
List report showing total sales/orders	Basic	1		
Report with a graph	Adv.	3		
Add new product	Basic	2		
Update/delete product	Basic	2		
Change order status/ship order	Basic	1		
Upload a photo to file system for product	Adv.	2		

Final Overall System Features	Cat.	Poss. Pts.	Pts.	Comments / Code Files
OR: Upload a photo to database for product	Adv.	4		
Database restore with SQL script	Core	1	1	Lab 7 loaddata.jsp executes DDL script, preserves customer table
Add/update warehouse, customer	Basic	2		
Database System/General				
Implement some validation using triggers	Adv.	2		
Use JavaScript validation for some pages	Adv.	4	4	Register.jsp, editAccount.jsp - Client side validation for password match, email format, required fields
User interface and navigation/usability		Up to 5	5	Consistent navigation bar, intuitive flows for checkout, orders, account registration/login/management. interactive elements. Followed consistent UI design and color scheme.
Others (your suggestions)		Up to 5		
Bundle/Outfit System			2.5	addBundle.jsp, outfits.jsp, showcart.jsp, listorder.jsp - Complete outfit bundle feature allowing customers to purchase pre-configured product sets. Bundles use "bundle_X" identifiers and display all included products with images in cart and order history. Customers are given 10% discount on total bundle price when purchasing a bundle
Authentication for cart additions			2.5	addBundle.jsp, loginRequired.jsp, addcart.jsp - forces login requirement before adding items to cart. The loginRequired page handles both product and bundle parameters, redirecting users back after authentication
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)				
Total		60	66	

3 Walkthrough with Pictures

Login information:

username: tiger password: password123

3.1 Homepage

The homepage allows customers to browse featured products, and access all major sections of the site.

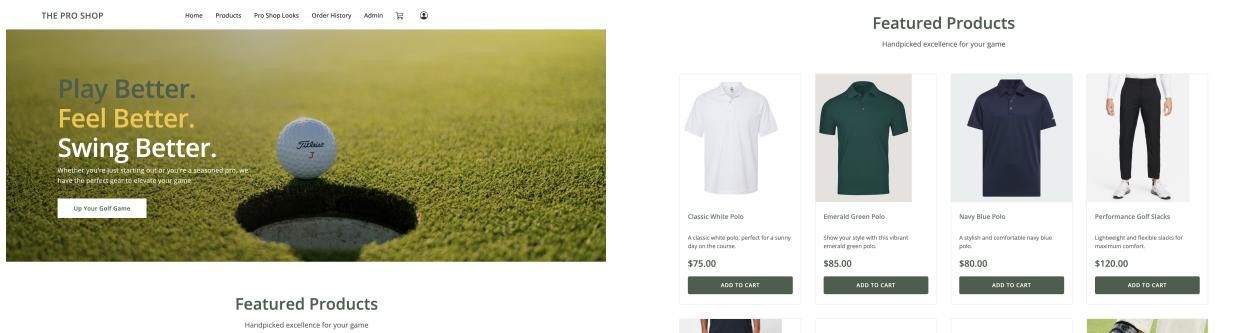


Figure 1: Homepage navigation and featured products

3.2 Account Registration and Login

Users can register for a new account or log in with their existing credentials.

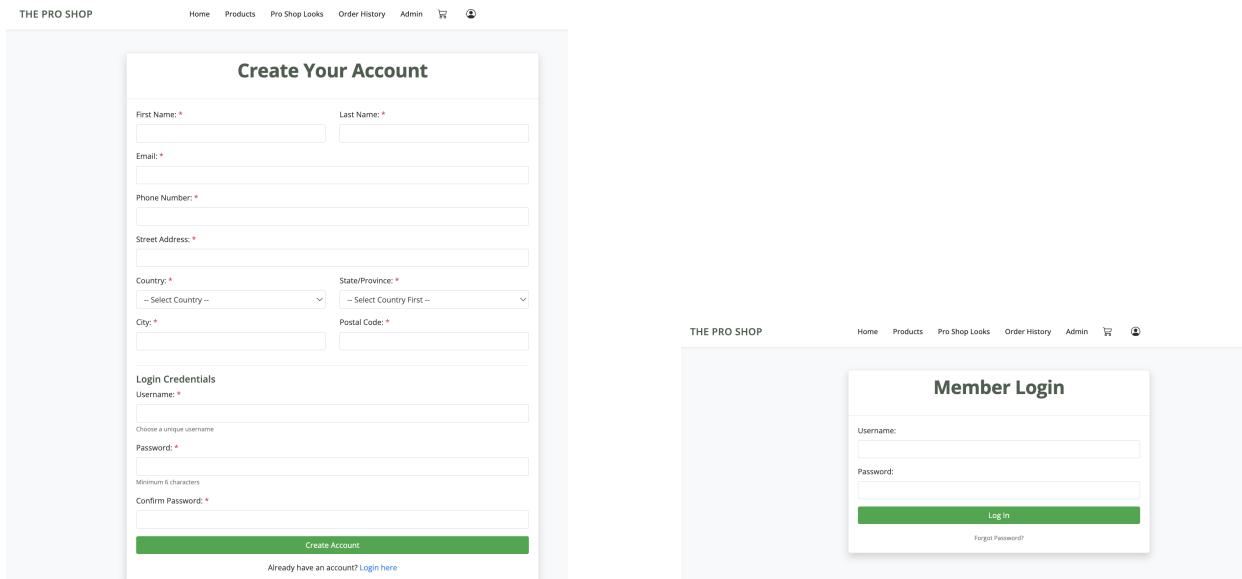


Figure 2: User registration and login pages

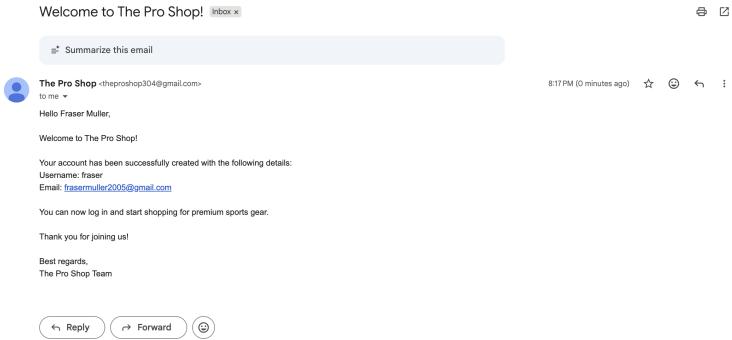


Figure 3: Welcome email sent after successful account registration

3.3 Password Reset

If a user forgets their password, a secure email-based reset workflow is provided.

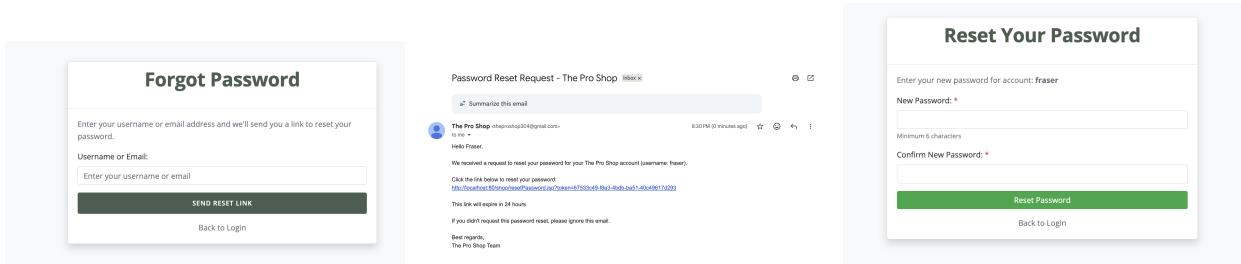


Figure 4: Password reset request, email, and reset page

3.4 Product Browsing and Product Detail

Customers can search for products, browse items, and view detailed product information.

The screenshot displays two main sections of a website's product catalog.

Top Section: A grid of 12 golf drivers arranged in three rows of four. Each item includes a small image, the product name, a brief description, price (\$), and an "Add To Cart" button.

Driver Model	Description	Price (\$)
Cobra GS-ADAPT MAX-D Driver	Stylish and comfortable, designed for a personal feel.	\$130.00
Cobra Airflow Max-D Driver	Ultimate stability and style for the ultimate driver.	\$275.00
Cobra King Speedzone 4 Driver	Clear, crisp, and effectively styled for the ultimate driver.	\$75.00
Cobra i-Maxx Driver	The perfect blend of comfort and performance.	\$95.00
Cobra GS-ADAPT LS Driver	Power by design. Driver designed to deliver.	\$149.99
Cobra Airflow Max-D Driver	Power by design. Driver designed to deliver.	\$149.99
Cobra King Speedzone 4 Driver	Clear, crisp, and effectively styled for the ultimate driver.	\$149.99
Cobra i-Maxx Driver	When the game is tight, change things up. i-Maxx is designed for extreme spin.	\$149.99
Cobra GS-ADAPT LS Driver	The GS-ADAPT LS Driver features a completely new look and feel.	\$149.99
Cobra GS-ADAPT MAX-D Driver	The GS-ADAPT MAX-D Driver features a completely new look and feel.	\$149.99
Cobra GS-ADAPT MAX-X Driver	The GS-ADAPT MAX-X Driver is designed for maximum distance and control.	\$149.99
Wilson Dynapro™ Titanium Driver	The new, adjustable Dynapro™ titanium driver is designed for greater	\$149.99
Cobra GS-ADAPT 3 Driver	The GS-ADAPT 3 Driver is designed for golfers seeking fast speeds and power.	\$149.99
Cleveland Ladies Launcher V.2 Driver	The Launcher V.2 Driver is designed for women who want to make more sense of their game.	\$149.99
Cobra GS-ADAPT MAX-X Driver	The GS-ADAPT MAX-X Driver is designed for maximum distance and control.	\$149.99
Cobra GS-ADAPT 3 Driver	The GS-ADAPT 3 Driver is designed for golfers seeking fast speeds and power.	\$149.99
Cobra GS-ADAPT LS Driver	The GS-ADAPT LS Driver is registered for a lifetime of use.	\$149.99
Cobra GS-ADAPT MAX-X Driver	The GS-ADAPT MAX-X Driver is registered for a lifetime of use.	\$149.99
Cobra Airflow Max-D Driver	Power by design. Driver designed to deliver.	\$149.99
Cobra King Speedzone 4 Driver	Clear, crisp, and effectively styled for the ultimate driver.	\$149.99
Cobra i-Maxx Driver	When the game is tight, change things up. i-Maxx is designed for extreme spin.	\$149.99

Bottom Section: A detailed product page for a "Pro Spiked Golf Shoes". It shows a large image of the shoe, the product name, price (\$250.00), a "Quantity" selector, an "Add To Cart" button, a "Product Description" section (mentioning professional-grade spikes), and a "Customer Reviews" section (empty).

Figure 5: Product search results, listings view, and product detail page

This screenshot shows a product listing page for apparel.

Search Products: A grid of four apparel items: "Classic White Polo", "Emerald Green Polo", "Navy Blue Polo", and "Performance Golf Slacks". Each item includes a small image, the product name, a brief description, price (\$), and an "Add To Cart" button.

Item	Description	Price (\$)
Classic White Polo	A classic white polo, perfect for a sunny day on the course.	\$75.00
Emerald Green Polo	Show your style with this vibrant emerald green polo.	\$85.00
Navy Blue Polo	A stylish and comfortable navy blue polo.	\$80.00
Performance Golf Slacks	Lightweight and flexible slacks for maximum comfort.	\$120.00

Figure 6: Default Product page

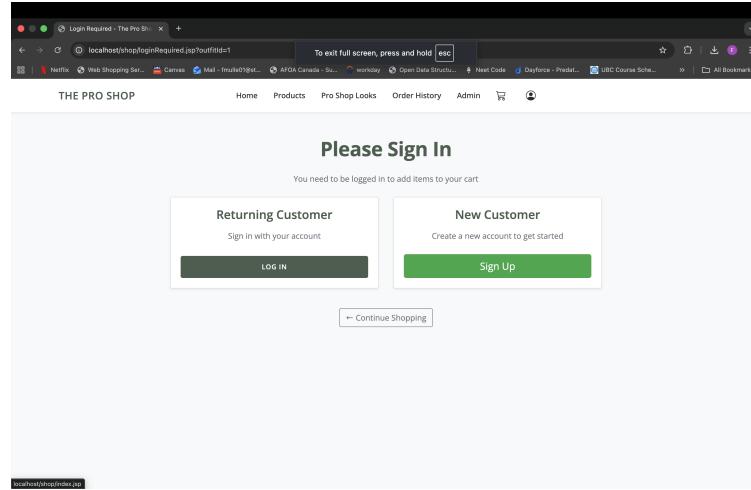


Figure 7: Login required prompt when attempting to add product to cart

3.5 Pro Shop Looks (Bundles)

Customers can purchase curated outfit bundles at discounted prices.

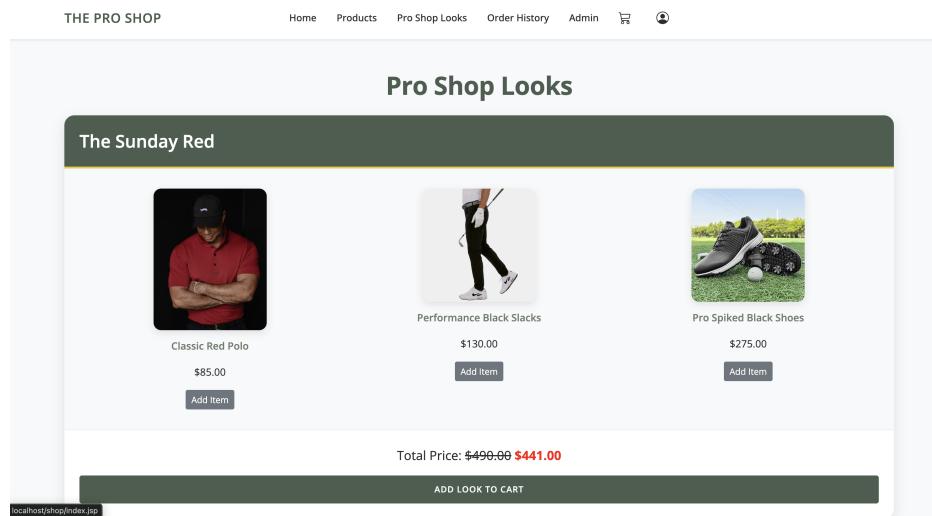


Figure 8: Pro Shop Looks bundle page

3.6 Shopping Cart

The shopping cart supports both empty and populated states and allows quantity updates and removals.

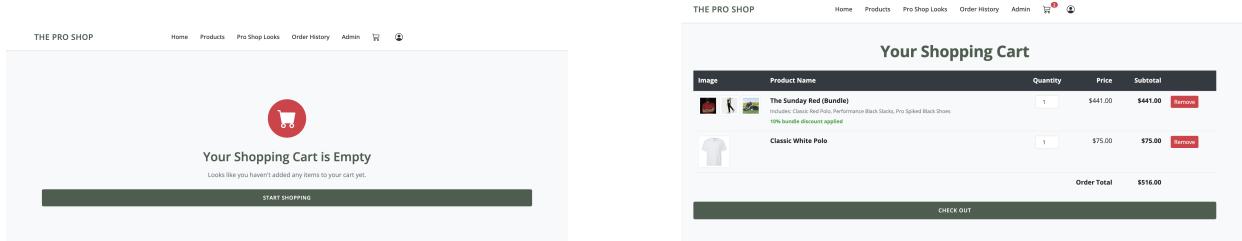


Figure 9: Empty shopping cart and populated shopping cart

3.7 Checkout and Order Confirmation

After checkout, customers receive a clear confirmation of their order.

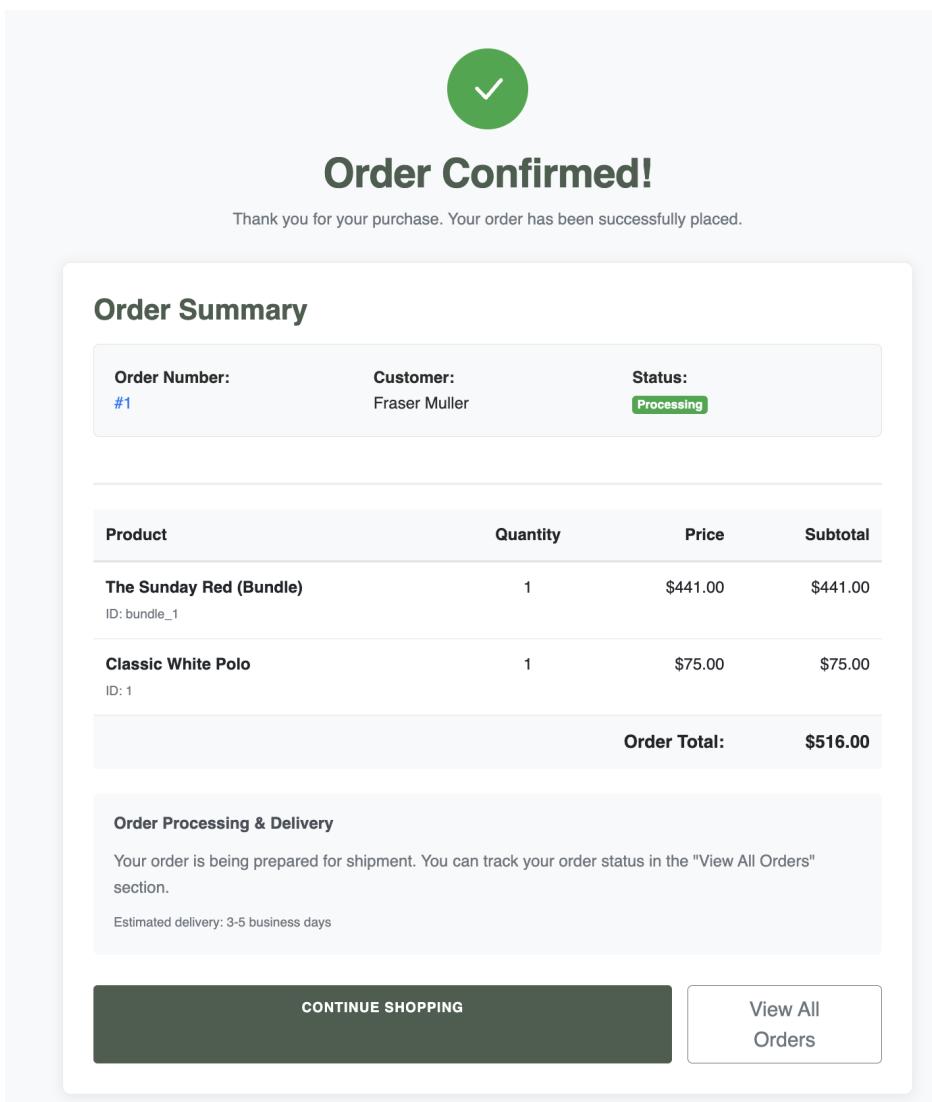


Figure 10: Order confirmation page

3.8 Order History

Logged-in users can view a complete history of previous purchases.

The screenshot shows a web page titled "Your Order History". At the top, it displays "Order #1 | Placed on 2025-12-06 | Total: \$516.00". Below this, there is a table titled "Order Details" with columns for "Image", "Product Name", "Quantity", and "Price". The first row shows a white polo shirt with the product name "Classic White Polo" and a quantity of 1 at a price of \$75.00. The second row shows a bundle named "The Sunday Red (Bundle)" which includes a classic red polo, performance black slacks, and pro spiked black shoes, with a total quantity of 1 and a total price of \$441.00.

Figure 11: Order history page

3.9 Account Management

Users can view and update personal information, shipping addresses, and passwords.

The screenshot shows two account management pages. On the left is the "My Account" overview page, which displays a success message "Account updated successfully!". It contains sections for "Personal Information" (First Name: Fraser, Last Name: Muller, Email: frasermuller2005@gmail.com, Phone Number: 123123), "Shipping Address" (Street Address: 123213, City: 12323, Province: BC, Country: Canada), and "Login Information" (Username: Fraser, Password: *****). On the right is the "Edit Your Account" page, which allows users to update their personal information (First Name: Fraser, Last Name: Muller, Email: frasermuller2005@gmail.com, Phone Number: 123123) and shipping address (Street Address: 123213, Country: Canada, State/Province: British Columbia, City: 12323, Postal Code: 123123). It also includes a "Change Password (Optional)" section with fields for Current Password, New Password (Minimum 6 characters), and Confirm New Password. A "Quick Actions" sidebar on the "My Account" page provides links to "Edit Account Information", "View Order History", and "Continue Shopping".

Figure 12: Account overview and edit account pages

3.10 Product Reviews

Verified customers can submit reviews for products they have purchased.

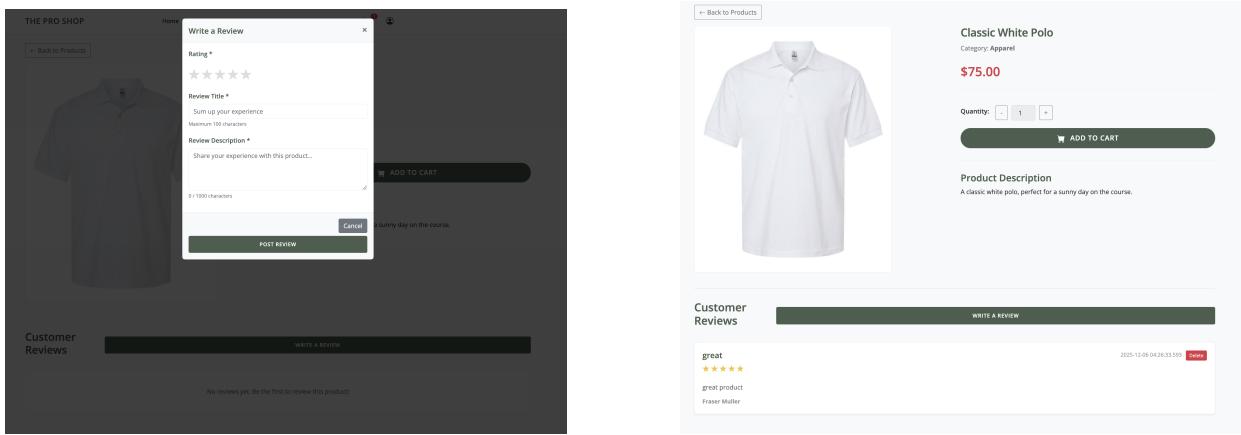


Figure 13: Submitting and viewing product reviews

3.11 Administrator Access and Reporting

Administrative pages are secured by authentication and provide daily revenue reporting.

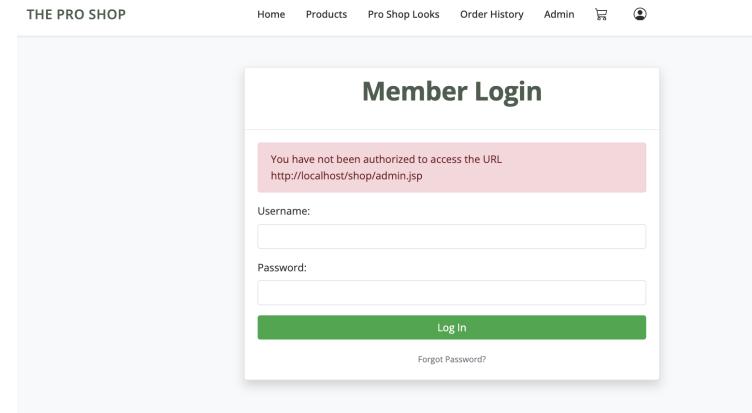


Figure 14: Unauthorized admin access redirected to login

Order Date	Total Amount
2025-12-06	\$516.00

Figure 15: Admin daily order and revenue summary

4 Sources

- <https://gemini.google.com> — Google Gemini, used alongside the Roo Code VS Code extension.
- <https://github.com/copilot> — GitHub Copilot for in-editor code generation and refactoring.
- <https://chatgpt.com> — ChatGPT for wording refinement, debugging assistance, and LaTeX formatting.