



SIM-ESTER DOCUMENTATION

COSC 304 – Group 50

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GitHub Repository: (removed for privacy)
Website Link: (removed for privacy)

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Mission Statement

At SIM-ESTER, our mission is to provide students with the opportunity to explore and experience courses through immersive simulation games. We aim to eliminate the financial barriers of traditional education, where a single course can cost \$500 to \$5,000. With our platform, learning becomes both affordable and engaging.

Executive Summary

SIM-ESTER is a website designed to revolutionize how students experience education. Drawing from the inspiration of UBCO courses, SIM-ESTER's main purpose is to provide current and prospective students with the opportunity to experience a course without the steep monetary fees associated with it. With the rise of simulation-based games, the way students could experience academic courses became obvious. By combining university courses with a simulation-type experience, we at SIM-ESTER can provide students with an academic experience at a fraction of the cost.

With deep roots in the simulation field, SIM-ESTER has managed to cut the costs of education while also making the experience more enjoyable. Each simulation is dynamic and interactive, providing a different experience for every student. Additionally, these simulations allow prospective students to test the courses as part of their academic career while also allowing them to explore new skills. This model thereby empowers students to make informed decisions about their academic careers.

What sets SIM-ESTER apart is its commitment to making education both affordable and engaging. By offering affordable simulations, we encourage students to explore their interests without financial fear. As we continue to expand our library of simulations, we remain deeply rooted in our mission statement.

User Accounts

- Sample user username: beth
- Sample user password: test
- Sample admin username: rlawrenc
- Sample admin password: 304ramonpw
- All default users left
- Added a few special users :)

System Features

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (15 total points)				
Executive Summary (up to 1 page)	Core	2	<input checked="" type="checkbox"/>	In this document & index.handlebars
System Features (2 pages)	Core	2	<input checked="" type="checkbox"/>	In this document
List of Web and AI sources used	Core	3	<input checked="" type="checkbox"/>	In this document
Walkthrough with screenshots (up to 15 pages)	Core	8	<input checked="" type="checkbox"/>	In this document
Hosting (10 total points)				
Running on cloud server	Advanced	10	<input checked="" type="checkbox"/>	
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	<input checked="" type="checkbox"/>	listprod.js & listprod.handlebars
Browse products by category	Core	1	<input checked="" type="checkbox"/>	listprod.js & listprod.handlebars
List products (by search/browse)	Core	1	<input checked="" type="checkbox"/>	listprod.js & listprod.handlebars
List products with image	Core	1	<input checked="" type="checkbox"/>	index.js & index.handlebars (show 3 featured products w/ images); listprod.js & listprod.handlebars; product.js & product.handlebars
Page header with menu	Basic	1	<input checked="" type="checkbox"/>	header.handlebars
Page header shows current logged in user	Basic	1	<input checked="" type="checkbox"/>	header.handlebars
Dynamic products on page based on sales	Basic	2	<input type="checkbox"/>	
Improved UI (user-friendly, images, etc.)	Basic	2	<input checked="" type="checkbox"/>	style.css
Product recommendation based on user	Advanced	4	<input type="checkbox"/>	
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1	<input checked="" type="checkbox"/>	addcart.js, product.js, product.handlebars
View shopping cart	Core	1	<input checked="" type="checkbox"/>	showcart.js & showcart.handlebars
Update quantity (with data validation)	Basic	1	<input checked="" type="checkbox"/>	updatequantity.js & showcart.handlebars
Remove item from shopping cart	Basic	1	<input checked="" type="checkbox"/>	deleteitem.js & showcart.handlebars
Improved formatting/UI (e.g. in header bar)	Basic	1	<input checked="" type="checkbox"/>	header.handlebars & style.css
Cart stored in database between sessions	Basic	3	<input type="checkbox"/>	
Checkout (up to 9 total points)				
Checkout with customer id	Core	1	<input type="checkbox"/>	Changed; have to be logged in to checkout with payment info
Checkout with payment/shipment info	Basic	2	<input checked="" type="checkbox"/>	Payment: checkout.js & checkout.handlebars
Checkout with data validation	Basic	2		checkout.handlebars; order.js & order.handlebars
Multiple shipments per order supported	Advanced	2	<input type="checkbox"/>	Note: Requires DB change.
Calculate taxes/shipping (by items/state)	Advanced	2	<input type="checkbox"/>	Note: Requires DB change.
Product Detail Page (up to 2 total points)				

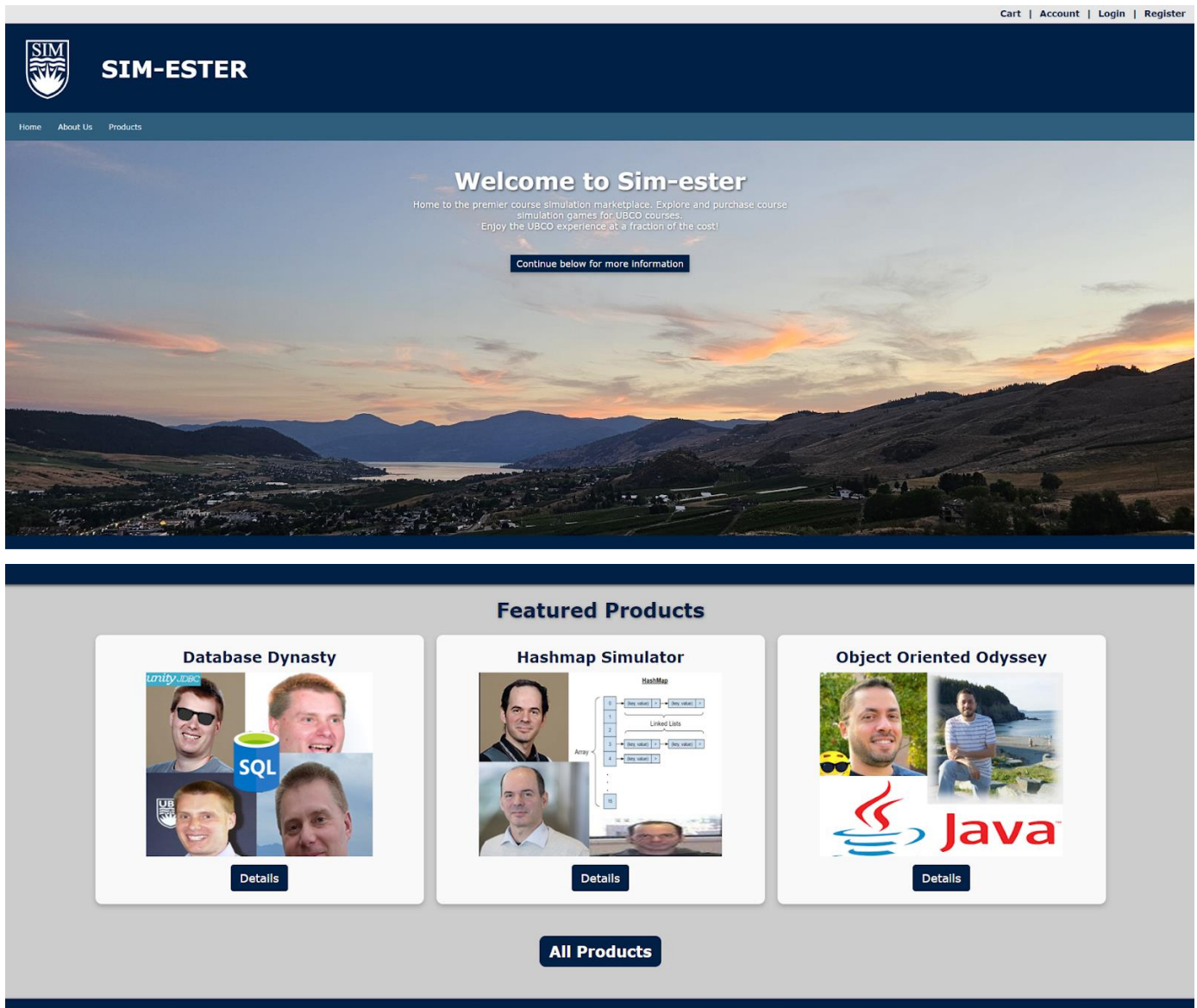
Product detail page and item description	Core	1	<input checked="" type="checkbox"/>	product.js & product.handlebars
Product detail has an image from database	Core	1	<input checked="" type="checkbox"/>	product.js & product.handlebars; displayImage.js
User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2	<input checked="" type="checkbox"/>	register.js & register.handlebars
Create account with data validation	Basic	2	<input checked="" type="checkbox"/>	validateRegister.js, accountCreated.handlebars, registrationError.handlebars
Edit user account info (address, password)	Basic	2	<input checked="" type="checkbox"/>	customerEdit.js & customerEdit.handlebars
Login/logout	Core	1	<input checked="" type="checkbox"/>	header.handlebars, login.js, logout.js, validateLogin.js
Register user/Forgot password email	Advanced	4	<input type="checkbox"/>	
Page listing all orders for user	Core	1	<input type="checkbox"/>	
Product Reviews (up to 5 total points)				
Ability to enter a review on a product	Basic	2	<input checked="" type="checkbox"/>	review.js & product.handlebars
Display product review on product detail page	Basic	1	<input checked="" type="checkbox"/>	product.handlebars
Restrict to one review per user on item purchased	Advanced	2	<input type="checkbox"/>	
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2	<input type="checkbox"/>	
Edit item inventory by store/warehouse	Advanced	3	<input type="checkbox"/>	
Administrator Portal (up to 19 total points)				
Secured by login	Core	1	<input checked="" type="checkbox"/>	admin.js & validateLogin.js
List all customers	Core	1	<input checked="" type="checkbox"/>	admin.js & admin.handlebars
List report showing total sales/orders	Core	1	<input checked="" type="checkbox"/>	admin.js & admin.handlebars
Report with a graph	Advanced	3	<input type="checkbox"/>	
Add new product	Basic	2	<input checked="" type="checkbox"/>	adminActions.js & adminActions.handlebars
Update/delete product	Basic	2	<input checked="" type="checkbox"/>	adminActions.js & adminActions.handlebars
Change order status/ship order	Basic	1	<input type="checkbox"/>	
Upload a photo to file system for product	Advanced	2	<input type="checkbox"/>	
OR: Upload a photo to database for product	Advanced	4	<input type="checkbox"/>	
Database restore with SQL script	Basic	2	<input type="checkbox"/>	
Add/update warehouse, customer	Basic	2	<input type="checkbox"/>	
Database System/General				
Implement some validation using triggers	Advanced	2	<input type="checkbox"/>	
Use AJAX for some pages	Advanced	4	<input type="checkbox"/>	
User interface and navigation/usability		Up to 5	<input checked="" type="checkbox"/>	Very nice UI, very familiar :) style.css
<i>Others (your suggestions)</i>		Up to 5	3	User feedback & testing to ensure top quality product.

Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)			68+5 = 73	+5 pts for presenting

Walkthrough

1. Home Page

This is the first page that customers will see upon heading to our website. Customers can choose to view products or login/register in the navigation bar. Customers are free to browse without logging in. Any transaction or access to their profile requires the user to be logged in. Scrolling down, you will find 3 featured products that link to the respective product page, as well as another link to view all products. Continuing below, customers can read about Sim-ester's mission statement and history, as well as view the current president.



About SIM-ESTER

MISSION STATEMENT

At SIM-ESTER, our mission is to provide students with the opportunity to explore and experience courses through immersive simulation games. We aim to eliminate the financial barriers of traditional education, where a single course can cost \$500 to \$5,000. With our platform, learning becomes both affordable and engaging.

OUR HISTORY

SIM-ESTER is a website designed to revolutionize how students experience education. Drawing from the inspiration of UBCO courses, SIM-ESTER's main purpose is to provide current and prospective students the opportunity to experience a course without the steep monetary fees associated with it. With the rise of simulation-based games, the way students could experience academic courses became obvious. By combining university courses with a simulation-type experience, we at SIM-ESTER are able to provide students with an academic experience at a fraction of the cost.

With deep roots in the simulation field, SIM-ESTER has managed to cut the costs of education while also making the experience more enjoyable. Each simulation is dynamic and interactive, providing a different experience for every student. Additionally, these simulations allow prospective students to test the courses as part of their academic career while also allowing them to explore new skills. This model thereby empowers students to make informed decisions about their academic careers.

What sets SIM-ESTER apart is its commitment to making education both affordable and engaging. By offering affordable simulations, we encourage students to explore their interests without financial fear. As we continue to expand our library of simulations, we remain deeply rooted in our mission statement.

Our President



Gary the snail, President

a. Footer

At the bottom of every page, customers will see the footer that links to the terms of use, copyright, and administrator portal. Although the site UI feels familiar, the design is our own. Nonetheless, our lawyers suggested adding a disclaimer.

[Terms of Use](#) [Copyright](#) [Administrators](#)

DISCLAIMER: Not affiliated with UBC (pls don't sue us)

2. Navigation Bar

This is where customers can navigate between the site pages. They can choose to go to the home page, product page, and about us section. Above the navigation bar is the account bar where users can login, view their account, create an account, or view their cart.

[Cart](#) | [Account](#) | [Login](#) | [Register](#)

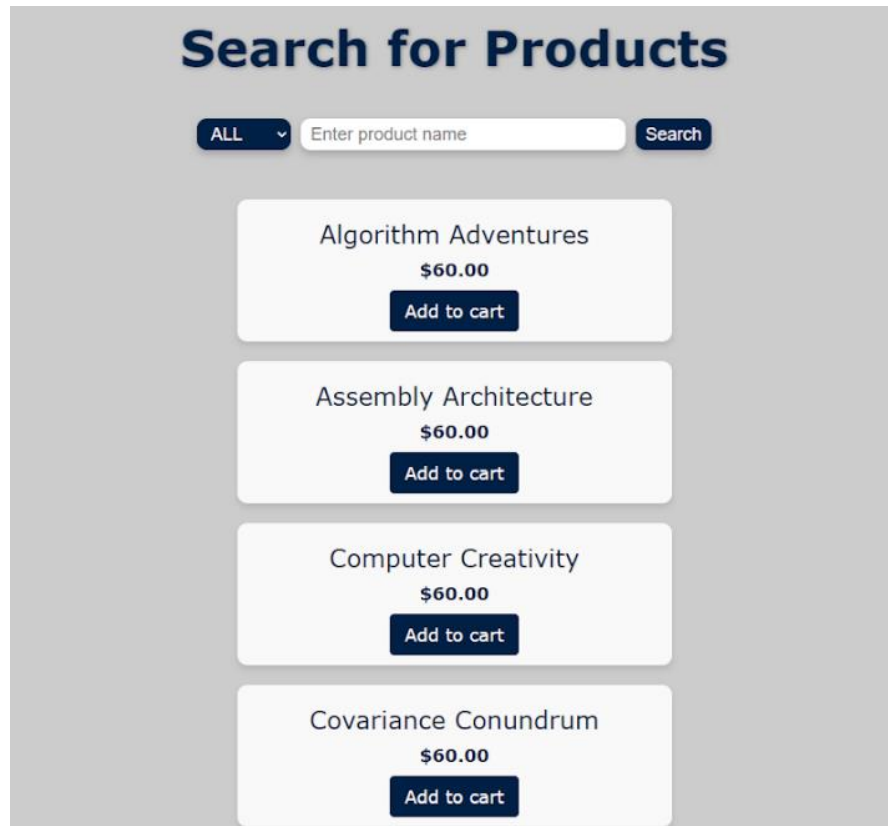


SIM-ESTER

[Home](#) [About Us](#) [Products](#)

3. Products

Customers can view all of Sim-ester’s products here with the option to filter by category or search by specific words/characters. Clicking anywhere on the product card will lead to the product details page. Clicking on “add to cart” will take the user to their cart.



a. Product details page

Once customers find a product they’re interested in, they can go to this page to view the product image, description, and reviews.

Database Dynasty



Step into Database Dynasty, where you'll build, query, and conquer the kingdom of data! From mastering SQL and designing powerful databases with ER diagrams to automating data analysis, become the ruler of relational databases. Ready to claim your database crown? (Based on COSC 304)

Price: \$60

Add to cart

Continue shopping

Reviews

No reviews for this product yet.

Reviews (1)

Rating: 5/5

Great course

Posted: Wed Dec 04 2024

4. Your Cart

This page shows the customer all items in their cart. If there is nothing in the cart, only the “continue shopping” button is present. Here customers can choose to update the quantity, remove an item, checkout or continue shopping.

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal	Actions	
2	Assembly Architecture	<input type="text" value="1"/>	\$60.00	\$60.00	<button>Update Quantity</button>	<button>Remove from cart</button>
12	Discrete Dynamics	<input type="text" value="1"/>	\$60.00	\$60.00	<button>Update Quantity</button>	<button>Remove from cart</button>
Order Total				\$120.00		

Check Out
Continue Shopping

a. Checkout Page

Upon clicking “checkout” on the “Your Cart” page, customers will be led to this page if they are logged in. Otherwise, they will be redirected to the login page. They will be prompted to enter their credit card details to continue the transaction.

Enter your credit card details to complete the transaction:

Checkout

b. Checkout Page Summary

After a successful checkout, customers will land on this page that shows their completed order.

Your Order Summary

Order Reference: 1

Shipping To: Arnold Anderson

Customer ID: 1

Products in this order:

Product Id	Product Name	Quantity	Price	Subtotal
1	Algorithm Adventures	1	\$60.00	\$60.00
Order Total				\$60.00

Order completed. Will be available for download soon...

5. Register

If a customer is new to the website and doesn't have a profile, they can register for one with this page. With account validation, we ensure that no two accounts use the same email or username and that the phone number and email are valid.

Register

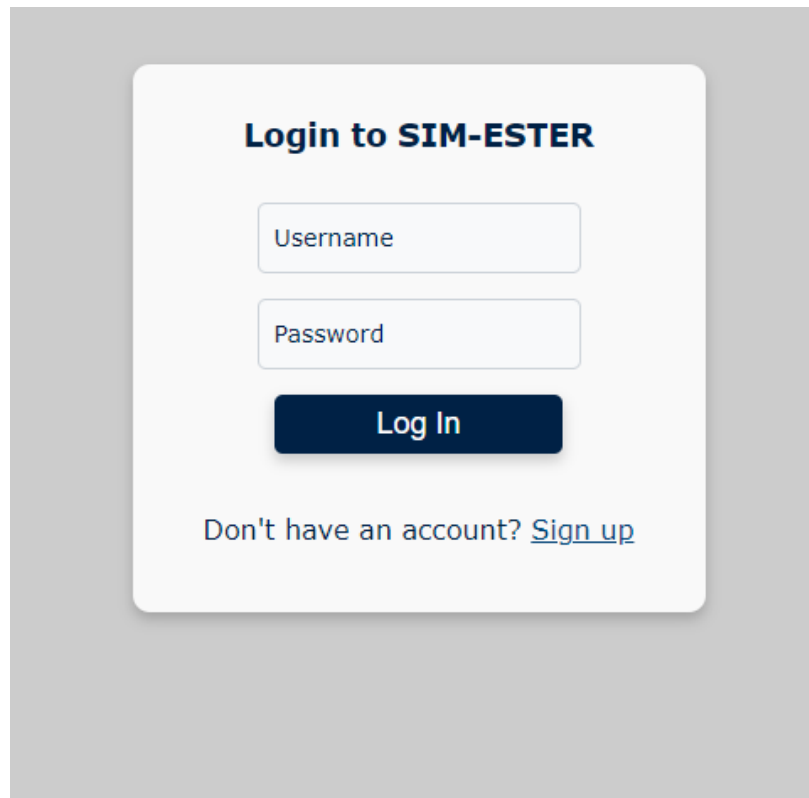
Sign up now to get full access to all features

Register

Already have an account? [Login](#)

6. Login

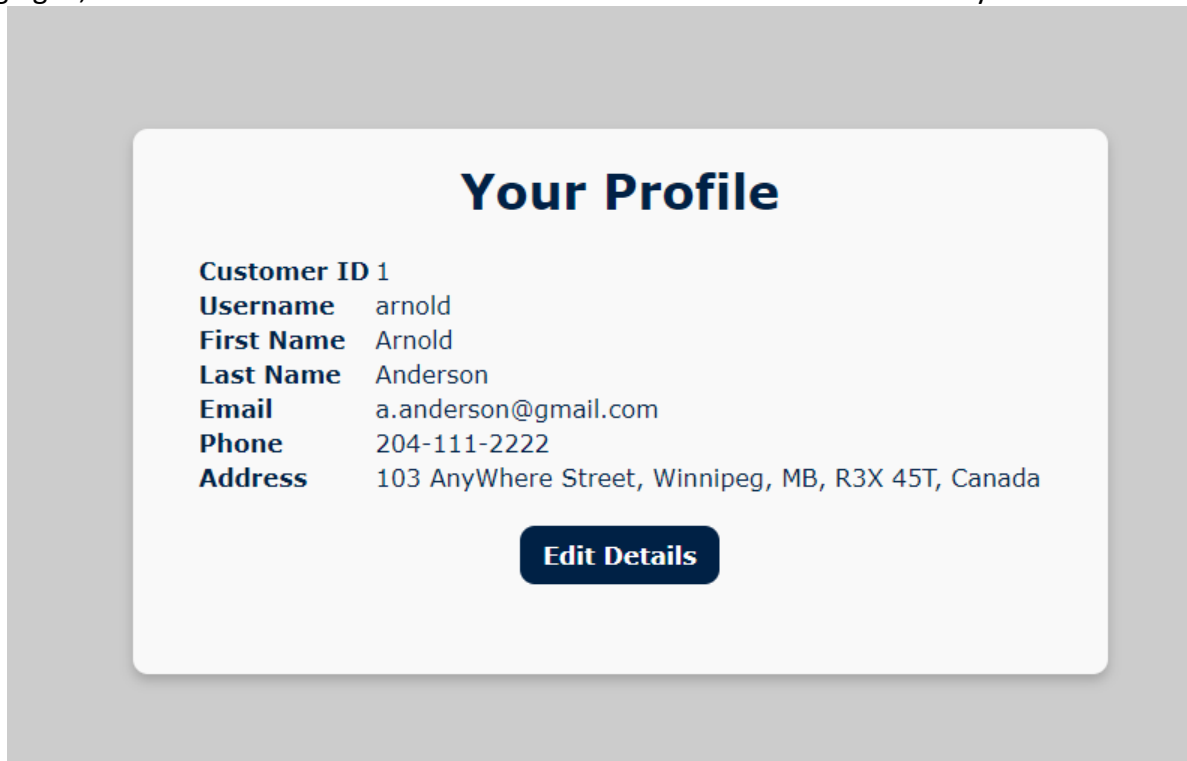
Similar to the checkout page, customers have the option to login to their existing account, or they can create a new one.



The login form is centered on a light gray background. It features a white rounded rectangle with a dark blue header 'Login to SIM-ESTER'. Below the header are two input fields: 'Username' and 'Password'. A dark blue 'Log In' button is positioned below the password field. At the bottom, there is a link that says 'Don't have an account? [Sign up](#)'.

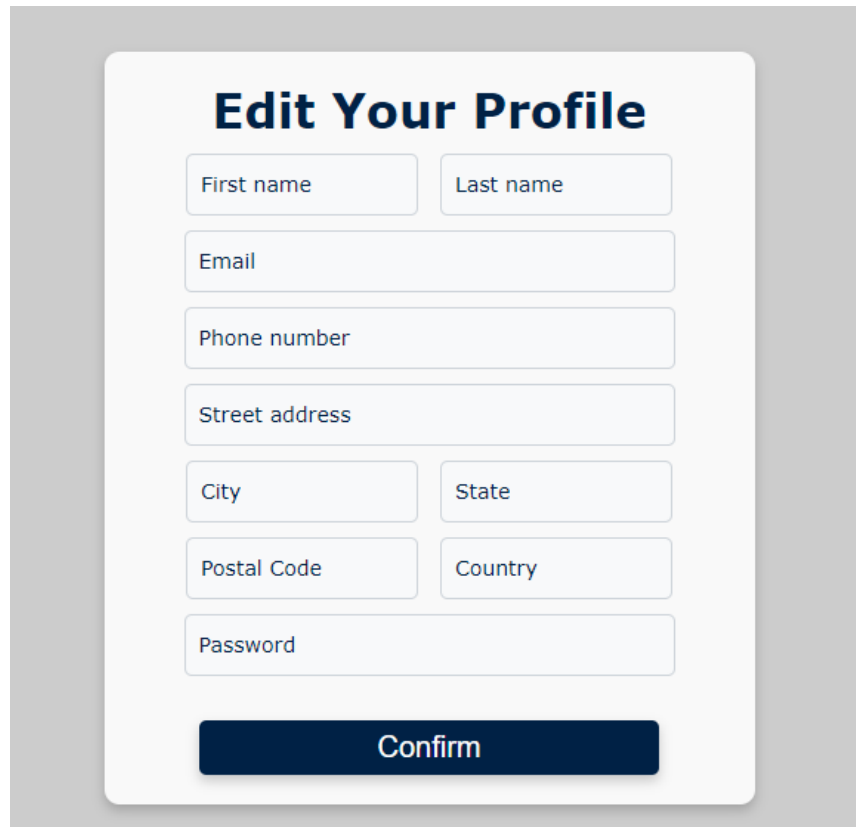
7. Customer Profile

After logging in, customers can view their account details and make edits if necessary.



The profile page is centered on a light gray background. It features a white rounded rectangle with a dark blue header 'Your Profile'. Below the header, the text 'Customer ID 1' is displayed. A list of account details follows: Username (arnold), First Name (Arnold), Last Name (Anderson), Email (a.anderson@gmail.com), Phone (204-111-2222), and Address (103 AnyWhere Street, Winnipeg, MB, R3X 45T, Canada). At the bottom, there is a dark blue 'Edit Details' button.

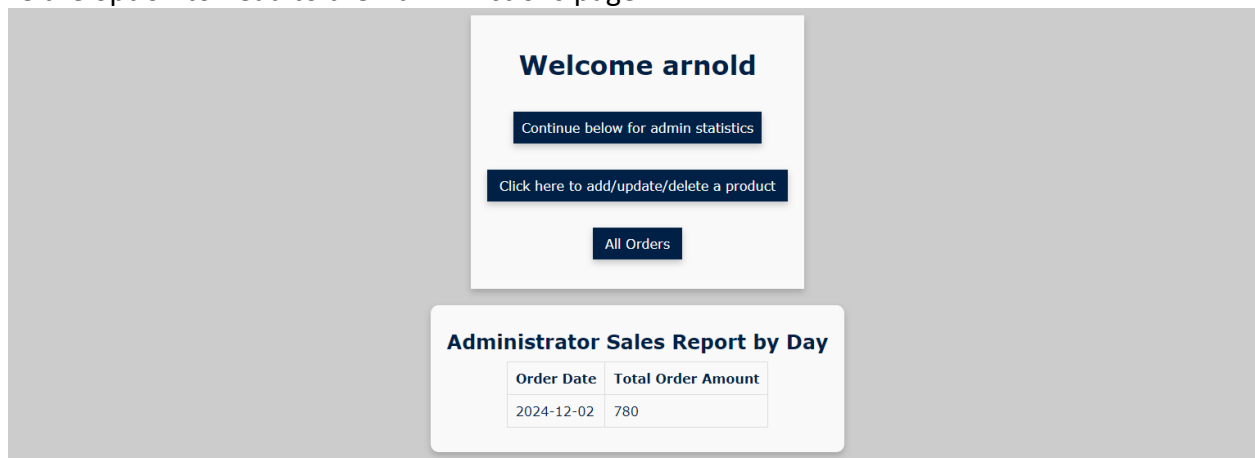
a. Edit Customer Profile



The image shows a web form titled "Edit Your Profile". It contains several input fields for user information: "First name", "Last name", "Email", "Phone number", "Street address", "City", "State", "Postal Code", "Country", and "Password". At the bottom of the form is a dark blue button labeled "Confirm".

8. Admin Home Page

Admin users can access this page to view information about daily sales and all customers with accounts. They also have the option to head to the Admin Actions page.



The image shows the Admin Home Page. It features a central white box with a dark blue header "Welcome arnold". Below the header are three dark blue buttons: "Continue below for admin statistics", "Click here to add/update/delete a product", and "All Orders". Below this box is another white box titled "Administrator Sales Report by Day" containing a table with two columns: "Order Date" and "Total Order Amount". The table has one row of data: "2024-12-02" and "780".

Order Date	Total Order Amount
2024-12-02	780

Customer Information										
User ID	Customer ID	First Name	Last Name	Email	Phone Number	Address	City	State	Postal Code	Country
arnold	1	Arnold	Anderson	a.anderson@gmail.com	204-111-2222	103 AnyWhere Street	Winnipeg	MB	R3X 45T	Canada
bobby	2	Bobby	Brown	bobby.brown@hotmail.ca	572-342-8911	222 Bush Avenue	Boston	MA	22222	United States
candace	3	Candace	Cole	cole@charity.org	333-444-5555	333 Central Crescent	Chicago	IL	33333	United States
darren	4	Darren	Doe	oe@doe.com	250-807-2222	444 Dover Lane	Kelowna	BC	V1V 2X9	Canada
beth	5	Elizabeth	Elliott	engel@uiowa.edu	555-666-7777	555 Everwood Street	Iowa City	IA	52241	United States
rlawrenc	6	Ramon	Lawrence	ramon.lawrence@ubc.ca	250-807-9390	SCI 200C	Kelowna	BC	V1V 1V7	Canada
omar	7	Omar	Abdelaziz	iamacosc304ta@ubc.ca	250-304-2024	3333 University Way	Kelowna	BC	V1V 1V7	Canada
bradan	8	Bradan	Fleming	another304ta@ubc.ca	250-304-2024	3333 University Way	Kelowna	BC	V1V 1V7	Canada
kevin	9	Kevin	Wang	304ta@ubc.ca	250-304-2024	3333 University Way	Kelowna	BC	V1V 1V7	Canada
terry	10	Terry	Davis	terrydavis@gmail.com	250-304-2024	City Hall	West Allis	WI	V1V 1V1	United States

a. Admin Actions

On the Admin Actions page, the admin user has the option to update, delete, or add a product.

Update Product

Update Product

Delete Product

Delete Product

Add Product

Add Product

9. Orders List

The order list page includes the list of all orders made along with the details.

Order ID: 1

Order Date: 2024-12-02 03:48:02.0

Customer ID: 11

Customer Name: peepee poopoo

Total Amount: \$120.00

Product ID	Quantity	Price
1	1	\$60.00
6	1	\$60.00

Order ID: 2

Order Date: 2024-12-02 03:49:03.0

Customer ID: 11

Customer Name: peepee poopoo

Total Amount: \$60.00

Product ID	Quantity	Price
9	1	\$60.00

Order ID: 3

Order Date: 2024-12-02 03:49:13.0

Customer ID: 1

Customer Name: Arnold Anderson

Total Amount: \$60.00

Product ID	Quantity	Price
1	1	\$60.00

Order ID: 4

Order Date: 2024-12-02 03:49:27.0

Customer ID: 1

Customer Name: Arnold Anderson

Total Amount: \$60.00

Product ID	Quantity	Price
1	1	\$60.00

Order ID: 5

Order Date: 2024-12-02 03:51:15.0

Customer ID: 1

Customer Name: Arnold Anderson

Total Amount: \$60.00

Product ID	Quantity	Price
3	1	\$60.00

Order ID: 6

Order Date: 2024-12-02 03:51:58.0

Customer ID: 12

Customer Name: p p

Total Amount: \$120.00

Product ID	Quantity	Price
1	1	\$60.00
3	1	\$60.00

Order ID: 7

Order Date: 2024-12-02 03:53:25.0

Customer ID: 12

Customer Name: p p

Total Amount: \$120.00

Product ID	Quantity	Price
1	2	\$60.00

Order ID: 8

Order Date: 2024-12-02 03:53:46.0

Customer ID: 12

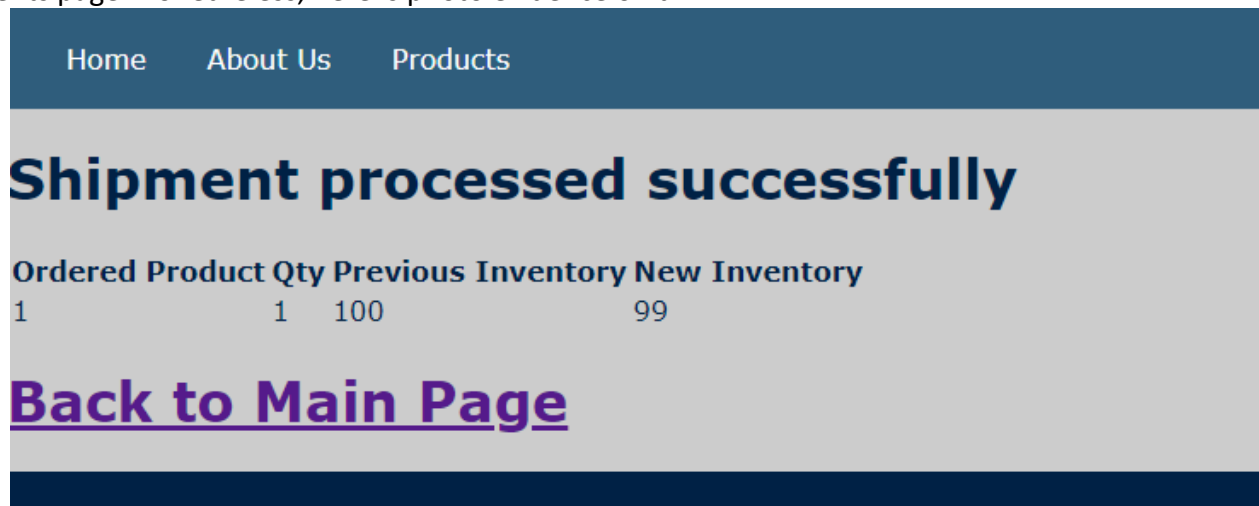
Customer Name: p p

Total Amount: \$60.00

Product ID	Quantity	Price
1	1	\$60.00

10. Shipments

We originally had this as part of the lab requirements, but since we are an online store, we have no need for a shipments page. Nonetheless, here is photo evidence of it.



Resources Used

- <https://ssc.adm.ubc.ca/sscportal/> (design inspiration)
- https://www.okanagan.bc.ca/sites/default/files/2023-02/Update_2022_Issue1_Nov.pdf (photo of Dr. Scott Fazackerley)
- <https://cmps.ok.ubc.ca/about/contact/> (photos of profs)
- <https://www.facebook.com/photo.php?fbid=1894716660553945&id=133596536665975&set=a.1894716313887313> (photo of Dr. Donovan Hare)
- <https://stackoverflow.com/questions/4338267/validate-phone-number-with-javascript> (phone number regex)
- <https://uiverse.io/Yaya12085/short-turtle-53> (based register UI off this)
- <https://stackoverflow.com/questions/46155/how-can-i-validate-an-email-address-in-javascript> (email regex)
- <https://gist.github.com/psamaan/6187095> (list of countries)
- Some conversations with our best buddy: (list of conversations removed)
 -