

**University Of British Columbia**  
COSC 304: Introduction to Databases

Group 14

# OMICA

Project Design Document

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Github Repository Link:

<https://github.com/JRamos2425/COSC-304-Project>

Cloud Link:

<https://omica.herokuapp.com/>

**Mission Statement:**

“To provide a platform for which high quality treats, toys, and accessories can be reviewed and purchased with ease”

**Executive Summary:**

With mainstream e-commerce stores simply branching out into pet foods, many would consider the service provided to be generic and ill suited for their companions. The problems lie within the broad scope of each platform and the insufficient specialization into the pet market. To narrow down the scope, we established an e-commerce store dedicated to providing a custom fitted and personalized user experience especially for retail pet stores and pet owners alike. The store sells products such as but not limited to pet treats, toys, and accessories within a variety of categories for each special kind of pet. Furthermore, integrating a quality oriented system where products are not only reviewed but also make those reviews available to the end user.

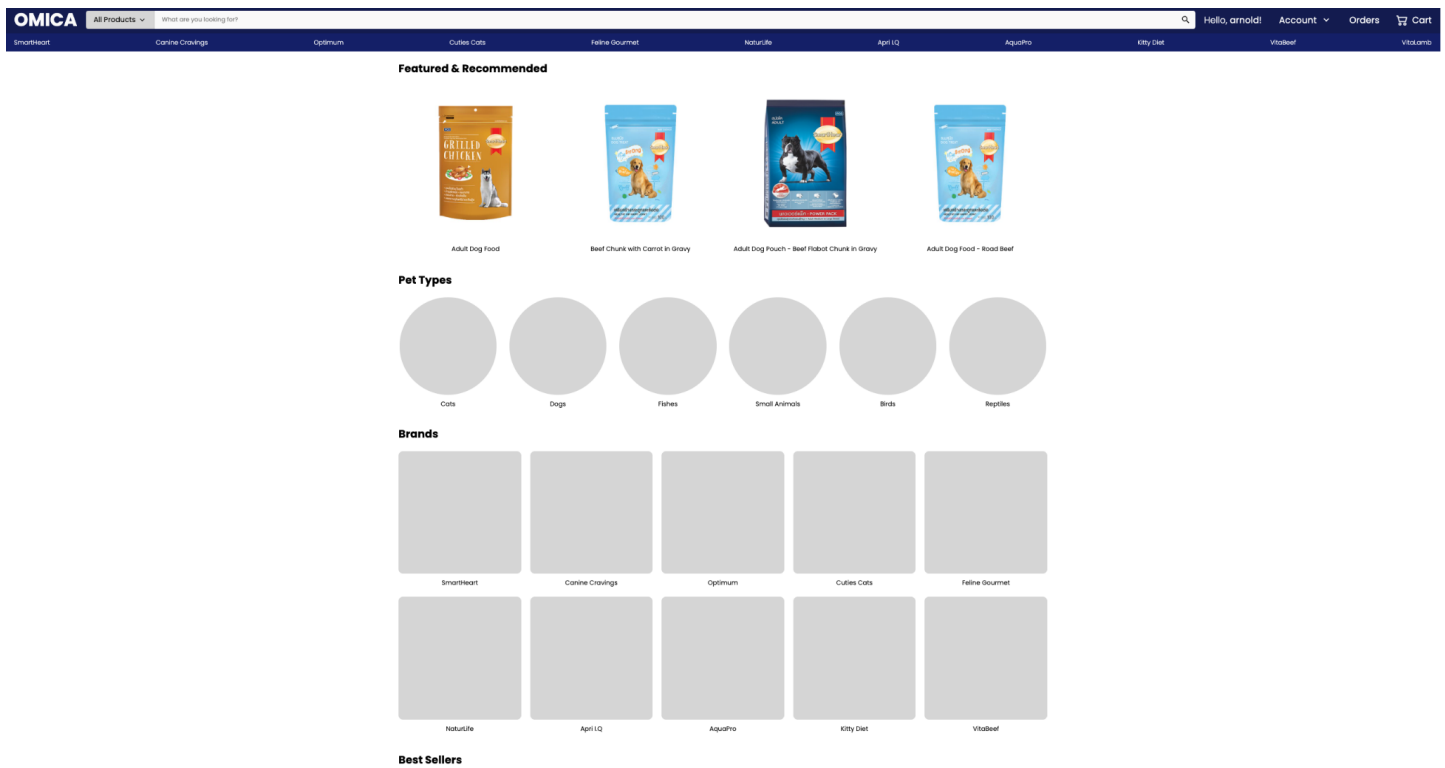
All of our images, data, and descriptions are from petPlus.com. Omica allows users to choose from a variety of high quality pet goods ranging from toys, food, and other pet supplies. Users can create their own accounts, providing personal information including their first name, last name, phone number, email, username, and password. Customers can select the products of their choice, add it to their cart, and checkout by adding payment methods and a shipping address order. Clients may also view the status of their order as well.

Only administrators may access the administrator dashboard which has access too adding, editing, and viewing products, orders, and warehouses. Administrators can also export this information into an Excel Spreadsheet or print it off for their needs.

## Project Features List Template

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
<b>Documentation (10 total points)</b>				
Executive Summary (up to 1 page)	Core	2	2	
System Features (2 pages)	Core	2	2	
Walkthrough with screenshots (up to 15 pages)	Core	6	6	
<b>Hosting (10 total points)</b>				
Running on cloud server	Advanced	10	10	
<b>Main/Home Page (up to 14 total points)</b>				
Search for a product by name	Core	1	1	navbar.js
Browse products by category	Core	1	1	browse.js
List products (by search/browse)	Core	1	1	browse.js
List products with image	Core	1	1	browse.js
Page header with menu	Basic	1	1	navbar.js
Page header shows current logged in user	Basic	1	1	navbar.js
Dynamic products on page based on sales	Basic	2	2	dashboard.js
Improved UI (user-friendly, images, etc.)	Basic	2	2	browse.js
Product recommendation based on user	Advanced	4	4	dashboard.js
<b>Shopping Cart (up to 8 total points)</b>				
Add to shopping cart	Core	1	1	shoppingcart.js
View shopping cart	Core	1	1	order.js
Update quantity (with data validation)	Basic	1	1	order.js
Remove item from shopping cart	Basic	1	1	order.js
Improved formatting/UI (e.g. in header bar)	Basic	1	1	
<b>Checkout (up to 9 total points)</b>				
Checkout with customer id	Core	1	1	shoppingCart.js
Checkout with payment/shipment info	Basic	2	2	shoppingCart.js
Checkout with data validation	Basic	2	2	shoppingCart.js
Multiple shipments per order supported	Advanced	2	2	orders.js
Calculate taxes/shipping (by items/state)	Advanced	2	1	shoppingCart.js
<b>Product Detail Page (up to 2 total points)</b>				
Product detail page and item description	Core	1	1	individualProduct.js

Product detail has an image from database	Core	1	1	individualProduct.js
<b>User Accounts/Login (up to 12 total points)</b>				
Create user account page	Basic	2	2	register.js
Create account with data validation	Basic	2	2	register.js
Edit user account info (address, password)	Basic	2	2	login.js
Login/logout	Core	1	1	login.js
Page listing all orders for user	Core	1	1	orders.js
<b>Product Reviews (up to 5 total points)</b>				
Ability to enter a review on a product	Basic	2	2	reviews.js
Display product review on product detail page	Basic	1	1	reviews.js
<b>Warehouses/Inventory (up to 5 total points)</b>				
Display item inventory by store/warehouse	Basic	2	2	inventory.js
<b>Administrator Portal (up to 19 total points)</b>				
Secured by login	Core	1	1	login.js
List all customers	Core	1	1	user.js
List report showing total sales/orders	Core	1	1	sales.js
Add new product	Basic	2	2	product.js
Update/delete product	Basic	2	2	product.js
Change order status/ship order	Basic	1	1	orders.js
<b>Database System/General</b>				
Use AJAX for some pages	Advanced	4	4	Axios Framework
User interface and navigation/usability		Up to 5	5	
<i>Others (your suggestions)</i>		Up to 5	5	
Present Project		5	5	
<b>Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)</b>			<b>89</b>	



- 1) Welcome to Omica. Omica is a e-commerce website where one can purchase high quality pet food for their pet. This website was built with a React frontend and a NodeJS backend. One can look up different brands on the top navbar and also search for products. Non logged in users can also browse the website, but in order to make orders, we will need to log in.

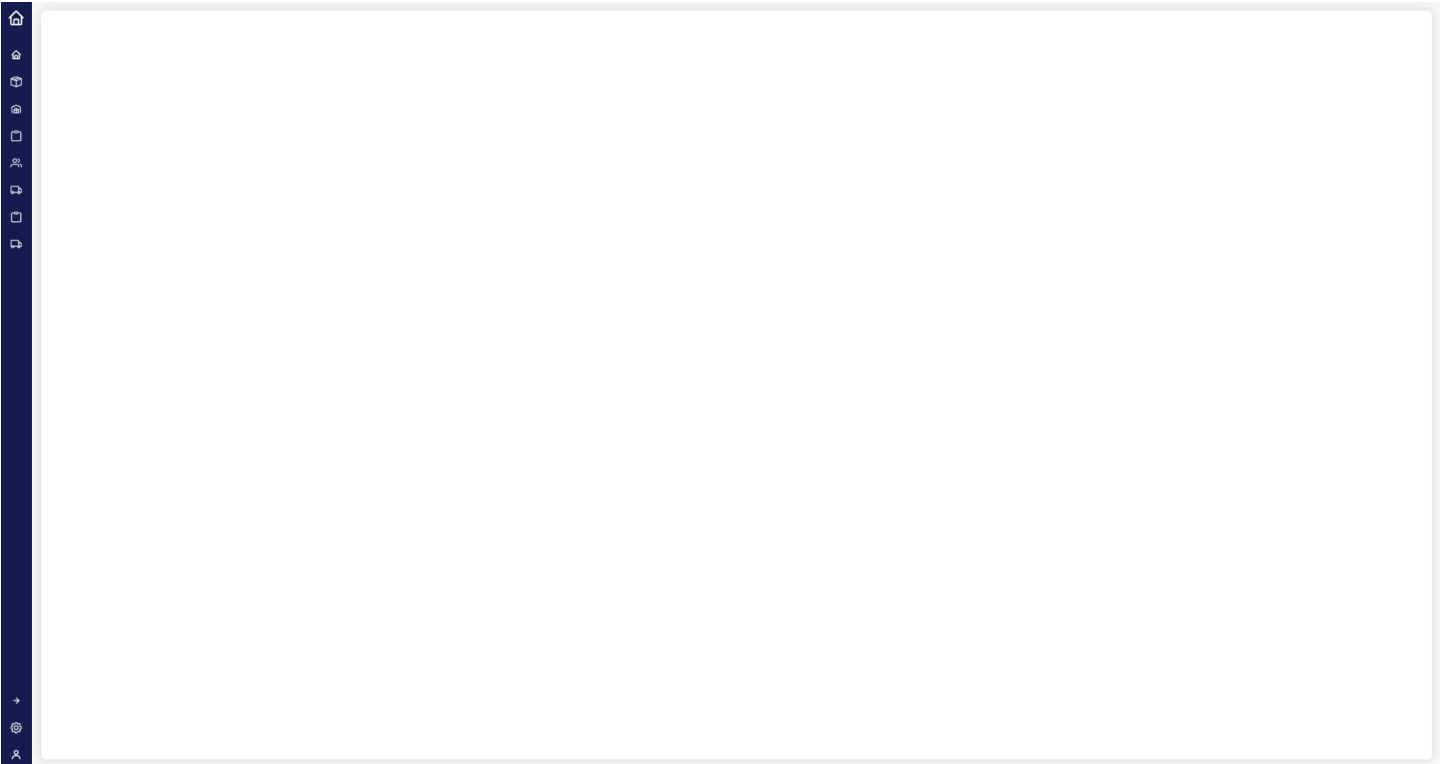
User Name

Password

[Login](#)

[Create Account](#)

- 2) This is the login page. There is also an option to create an account. We are going to login as Admin so we can show you the admin panel.



3) This is the Admin panel. There are lots of options available to us. All of them are accessible on the left hand side of the page. Let's start exploring!

Product Image	ID	Name	Price	In Inventory	In Shipment	Status
	1	Adult Dog Food - Lamb & Rice	\$25.00	30	0	Available
	2	Adult Dog Food - Road Beef	\$40.50	59	0	Available
	3	Adult Dog Pouch - Beef Flabot Chunk in Gravy	\$59.25	141	0	Available
	4	Canned Dog Food - Chicken & Liver	\$29.25	73	0	Available
	5	Puppy Food - Small Breed	\$19.25	54	0	Available
	6	Adult Cat Food - Chicken & Tuna	\$23.15	49	0	Available
	7	Rabbit Food - Wild Berry	\$13.15	28	0	Available
	8	Cat Pouch Adult Food - Chicken w/ Rice and Kanikama	\$73.15	30	0	Available
	9	Adult Dog Food	\$43.75	62	0	Available
	10	Adult Dog Food	\$33.75	46	0	Available

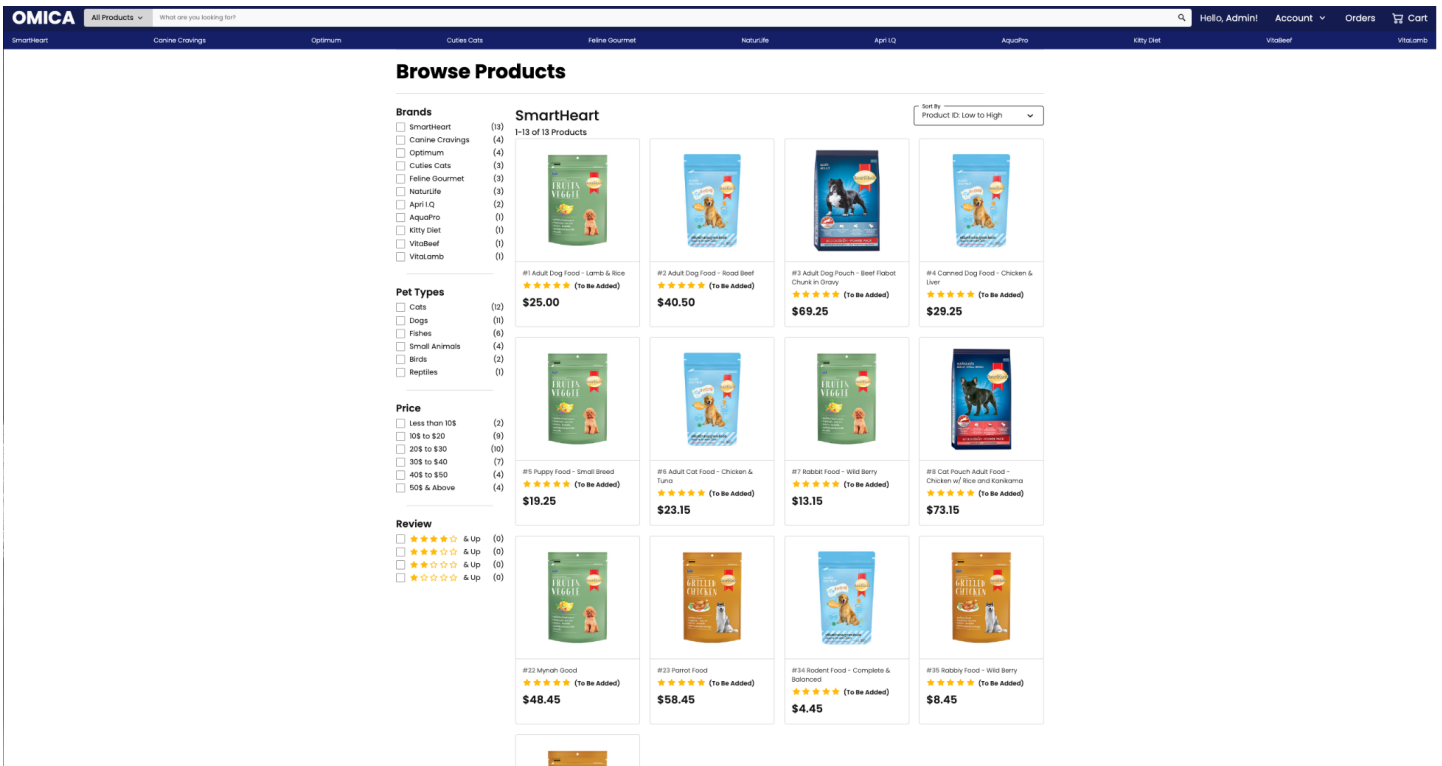
4) This is the admin product page. Here we can see all the products. We can control the price, inventory, shipment, and status. All the products are editable. We can also add new products, export our products to an excel spreadsheet, and print all the orders as well.

Warehouse ID	Location ID	Batch ID	Arrival Date
1	1	1	Sat, 10 Sep 2022 08:43:12 GMT
1	1	2	Mon, 10 Oct 2022 09:12:13 GMT
1	3	3	Thu, 10 Nov 2022 10:12:13 GMT
2	4	4	Sat, 10 Sep 2022 09:12:13 GMT
2	4	5	Mon, 10 Oct 2022 10:12:13 GMT
2	4	6	Thu, 10 Nov 2022 11:12:13 GMT

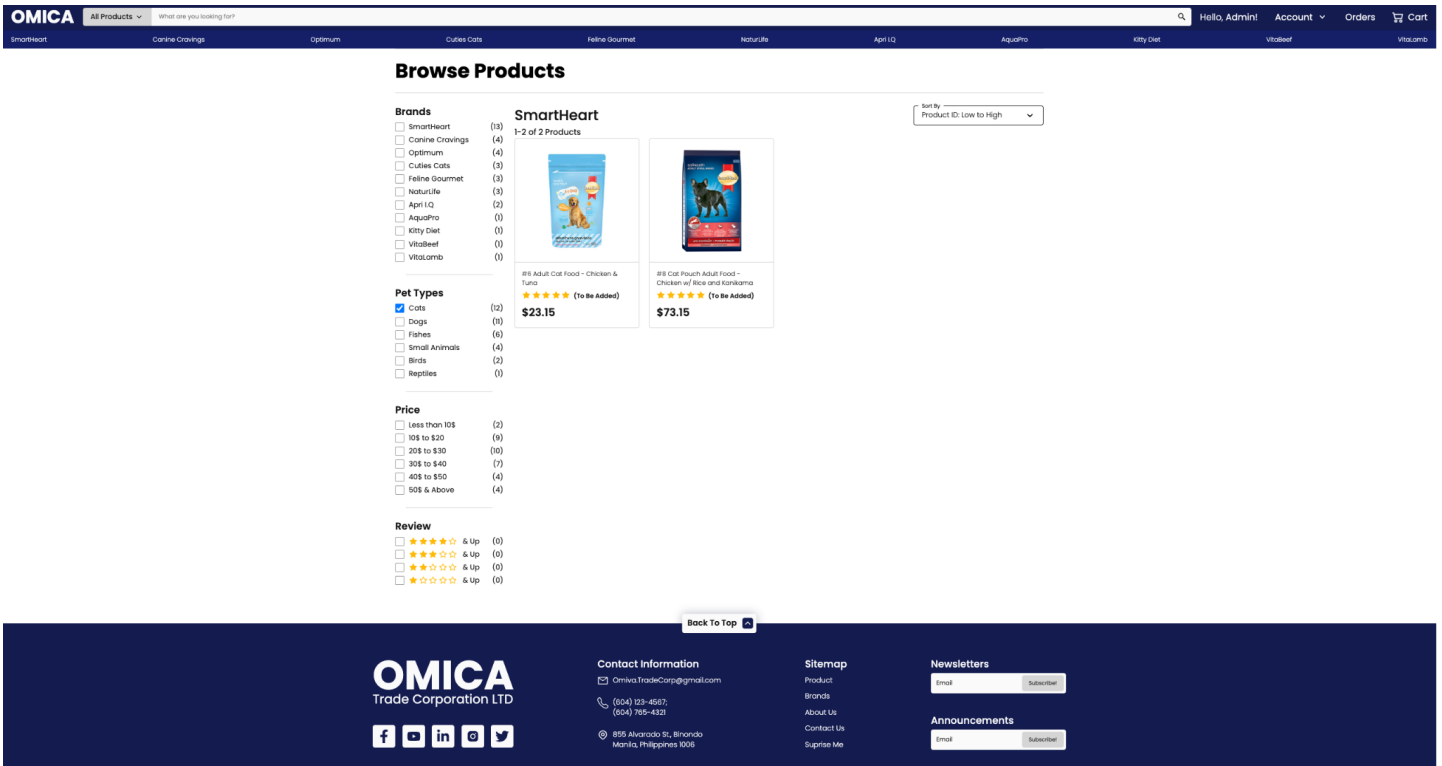
5) This panel shows us all the warehouses available. We can edit, add, search, print, and export to excel.

Order ID	Customer ID	Date	Destination	Total Price	Status
3	3	Tue, 15 Oct 2019 03:30:22 GMT	Vancouver	\$140.00	To Be Shipped
4	1	Tue, 15 Oct 2019 10:25:55 GMT	Vancouver	\$91.70	To Be Shipped
5	5	Tue, 15 Oct 2019 10:25:55 GMT	Vancouver	\$277.40	To Be Shipped
7	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$432.40	Pending
8	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$724.40	Pending
9	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$234.40	Pending
10	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$835.40	Pending
11	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$161.40	Pending
12	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$521.40	Pending
13	5	Tue, 15 Oct 2019 10:25:55 GMT	Kelowna	\$677.40	Pending

6) This panel shows us the orders. We can add and edit orders, search by ID, filter, and add new orders as well. Orders can be exported to excel or printed for your convenience!



7) This is the bread and butter of Omica. Here, we can browse through products. There are tons of options at our disposal to make browsing for the correct pet food easier for clients. On the left, we can sort by brand, pet type, price, and reviews. We can also control how we are sorting by products, whether we want to sort by price ascending, price descending, product ID, or number of sales.



8) This is an example of sorting products by pet-type in action.



OMICA All Products - What are you looking for? Hello, Admin! Account - Orders Cart

SmartHeart Canine Careings Optimum Cuties Cats Feline Gourmet NatureLife April IQ AquaPro Kitty Diet VitaBeef VitaLamb

**#1 Adult Dog Food - Lamb & Rice**  
★★★★★ (Under Construction 0)

**\$25.00**

SmartHeart Adult dog food is formulated to meet adult dogs requirement using the best quality ingredients and supplemented with fish oil (rich in DHA and Omega-3 fatty acid) and Lecithin (rich in Choline) to help enhance brain and nervous system function and promote heart health.

Quantity:

**Reviews**  
No Reviews Yet!

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**OMICA**  
Trade Corporation LTD

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Email

9) Here is the product page for each product. Here we can see the title, reviews, price, description, quantity option, add to cart button, and leave a review button. As you can see, there are no reviews yet for the product but we can add them! We are still working on the star-review functionality; as this project will become a passion project for multiple classmates here.

OMICA All Products - What are you looking for? Hello, Admin! Account - Orders Cart

SmartHeart Canine Careings Optimum Cuties Cats Feline Gourmet NatureLife April IQ AquaPro Kitty Diet VitaBeef VitaLamb

**Create Review**

**Adult Dog Food - Lamb & Rice**

Overall Rating 4

Comments This is a great product!

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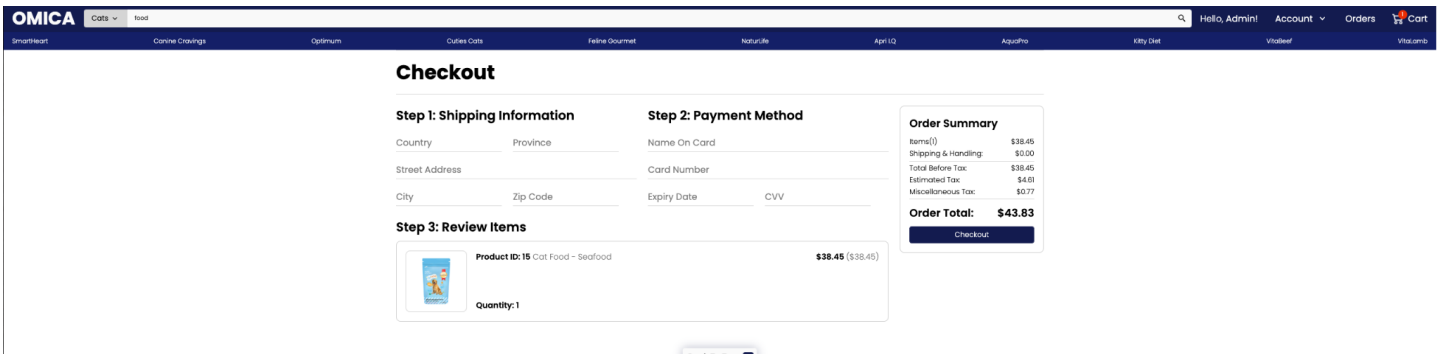
10) Here we are creating a review for a product. It's not the prettiest (yet) but it works! Let's go ahead and submit that review.

The screenshot shows the product page for '#1 Adult Dog Food - Lamb & Rice'. The product image is a green bag of 'FRUITS VEGGIE' dog food. The price is \$25.00. The description states: 'SmartHeart Adult dog food is formulated to meet adult dogs requirement using the best quality ingredients and supplemented with fish oil (rich in DHA and Omega-3 fatty acid) and Lecithin (rich in Choline) to help enhance brain and nervous system function and promote heart health.' There is a 'Quantity: 1' selector, an 'Add To Cart' button, and a 'Leave a review' button. Below the product, there is a 'Reviews' section with one review: 'Customer 6: This is a great product!'. The footer contains the OMICA logo, contact information, a sitemap, and newsletter/announcement sign-up forms.

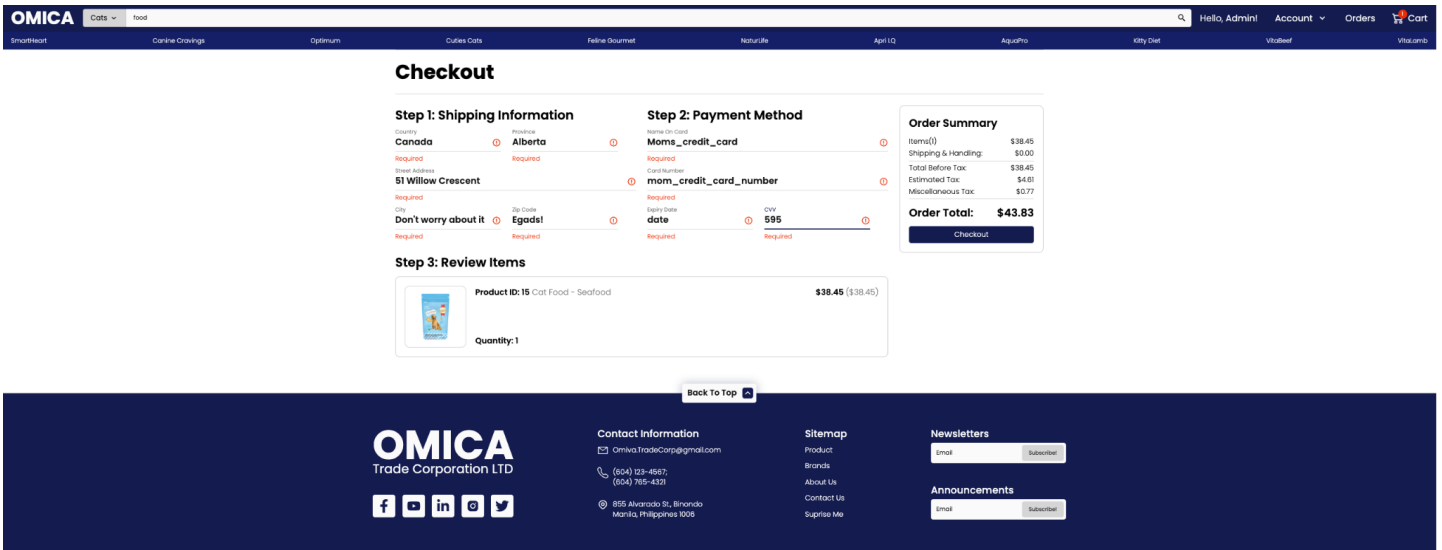
11) Now the review is present on the lower left hand of the screen.

The screenshot shows the shopping cart page. The cart contains one item: 'Product ID: 15 Cat Food - Seafood' for \$38.45. The quantity is set to 1. The 'Order Summary' shows: Items: \$38.45, Shipping & Handling: \$0.00, Total Before Tax: \$38.45, Estimated Tax: \$4.88, Miscellaneous Tax: \$0.77, and an 'Order Total' of \$43.83. A 'Proceed to Checkout' button is visible. The footer is identical to the previous screenshot.

12) Let's try adding the product to the shopping cart. Here we can see all the products in the shopping cart, the order summary, and we can even edit our order if we desire too.



13) Here we are checking out our order. The website prompts us for the shipping information and payment method. Let's try submitting without that information and see what happens.



14) The website rejects our faulty submission because we did not enter the correct information. It even points out exactly where the user made mistakes and how to correct them.

The screenshot shows the OMICA website interface. At the top, there is a navigation bar with the OMICA logo, a search bar containing the word "food", and user account options: "Hello, Admin!", "Account", "Orders", and "Cart". Below the navigation bar is a horizontal menu with various product categories: SmartHeart, Canine Careings, Optimum, Cutes Cats, Feline Gourmet, NaturLife, April IQ, Aquatico, Kitty Diet, VitaBeef, and VitaLamb.

In the center of the page, there is a table displaying order information:

Order ID	Customer ID	Order Date	Total Price
10	6	12/9/2022, 11:03 PM	\$43.83

Below the table is a "Back To Top" button. The footer of the website is dark blue and contains the following sections:

- OMICA Trade Corporation LTD** logo and social media icons for Facebook, YouTube, LinkedIn, Instagram, and Twitter.
- Contact Information:** Email: [Omiva.TradeCorp@gmail.com](mailto:Omiva.TradeCorp@gmail.com), Phone: (604) 223-4967, (604) 755-4321, Address: 856 Alvarado St., Binondo Manila, Philippines 1006.
- Sitemap:** Product, Brands, About Us, Contact Us, Surprise Me.
- Newsletters:** An input field for an email address and a "Subscribe" button.
- Announcements:** An input field for an email address and a "Subscribe" button.

15) Fixing the mistakes and pressing order, we can now see the orders that our user made. It has details about the orderId, the customerId, the date that it was ordered as well as the price paid.