OnlyDucks Report:

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Link to GitHub: https://github.com/Hedgemon4/cosc304-only-ducks

Project needs to be run locally, for regular user: arnold (pw: test), for admin user: admin1 (pw: secure123)

Mission Statement:

We at OnlyDucks believe that every programmer in the world deserves a personalized inanimate waterfowl companion with which they may converse and debug. To that end, our website should offer those who desire them a wide selection of niche custom rubber ducks capable of being delivered directly to their doorstep.

Executive Summary:

Every programmer has, at some point in their career, broken down into an insecure mess because their code just would not work. Remedying such a situation most commonly requires slowly and painfully marching through every process in a program to determine what is not functioning as it should. To make this process more effective and far more enjoyable, many have adopted the "rubber duck method" of debugging, wherein one communicates to an inanimate object (a rubber duck being the namesake choice for most) what their code is doing. Speaking out loud in this way commonly reveals issues a developer would not have noticed otherwise. We embraced this idea and sought to take it a step further by offering programmers a chance to acquire their very own personalized duck. After all, if you are going to be spending hours of your day talking to a rubber object, you had better hope it's an object you can identify with!

OnlyDucks is a website where a user can create an account, browse a wide and ever-increasing catalogue of niche rubber ducky designs, select those they feel would best assist their practice, and place an order to have their feathery friends sent straight to them! With searchable tables, distinct categories, and individual descriptions, finding your perfect avian companion is a simple, painless process. Customers can leave reviews for others seeking lifelong coding partners, and admins of the site are even able to edit and view things like warehouse inventories, order reports, customer information, and daily sales reviews. Our products, customers, and orders are all stored in a robust and secure database which allows for ease of access and ease of mind for our customers.

The rubber duck is an essential item for professional and casual programmers alike. Whether you use it to bounce ideas off of, explain issues to, or throw into a wall in frustration, the duck is one of your most vital tools and should be perfectly calibrated to your exact needs. No longer will your anger fester in the cage of your mind, for OnlyDucks is here to provide you with the ideal companion for any situation!

System features:

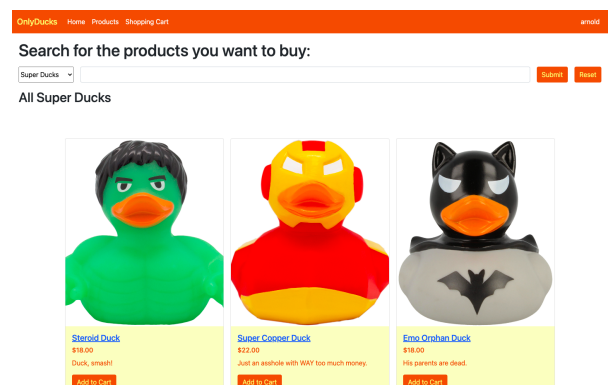| Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
Documentation (10 total points)				
Executive Summary (up to 1 page)	Core	2	2	
System Features (2 pages)	Core	2	2	
Walkthrough with screenshots (up to 15 pages)	Core	6	6	
Main/Home Page (up to 14 total points)				
Search for a product by name	Core	1	1	listprod.js and listprod.handlebars
Browse products by category	Core	1	1	listprod.js and listprod.handlebars
List products (by search/browse)	Core	1	1	listprod.js and listprod.handlebars
List products with image	Core	1	1	listprod.js and listprod.handlebars
Page header with menu	Basic	1	1	main.handlebars
Page header shows current logged in user	Basic	1	1	main.handlebars and server.js
Dynamic products on page based on sales	Basic	2	2	listprod.js and listprod.handlebars
Improved UI (user-friendly, images, etc.)	Basic	2	2	listprod.handlebars
Shopping Cart (up to 8 total points)				
Add to shopping cart	Core	1	1	addcart.js
View shopping cart	Core	1	1	showcart.js and showcart.handlebars
Update quantity (with data validation)	Basic	1	1	showcart.js and showcart.handlebars
Remove item from shopping cart	Basic	1	1	showcart.js and showcart.handlebars
Improved formatting/UI (e.g. in header bar)	Basic	1	1	main.handlebars, showcart.handlebars
Cart stored in database between sessions	Basic	3	3	
Checkout (up to 9 total points)				
Checkout with customer id	Core	1	1	User needs to be logged in
Checkout with payment/shipment info	Basic	2	2	checkout.js and checkout.handlebars
Checkout with data validation	Basic	2	2	checkout.js and checkout.handlebars
Product Detail Page (up to 2 total points)				
Product detail page and item description	Core	1	1	product.js
Product detail has an image from database	Core	1	1	product.js
User Accounts/Login (up to 12 total points)				
Create user account page	Basic	2	2	createAccount.js

Create account with data validation	Basic	2	2	createAccount.js (has regex for email and postal code, also checks username is not taken)
Edit user account info (address, password)	Basic	2	2	editAccount.js
Login/logout	Core	1	1	login.js and logout.js
Page listing all orders for user	Core	1	1	listorder.js
Product Reviews (up to 5 total points)				
Ability to enter a review on a product	Basic	2	2	product.js
Display product review on product detail page	Basic	1	1	product.js
Restrict to one review per user on item purchased	Advanced	2	2	product.js
Warehouses/Inventory (up to 5 total points)				
Display item inventory by store/warehouse	Basic	2	2	admin.js and admin.handlebars
Edit item inventory by store/warehouse	Advanced	3	3	admin.js and admin.handlebars
Administrator Portal (up to 19 total points)				
Secured by login	Core	1	1	login.js
List all customers	Core	1	1	admin.js and admin.handlebars
List report showing total sales/orders	Core	1	1	admin.js and admin.handlebars
Report with a graph	Advanced	3	3	admin.js and admin.handlebars
Database System/General				
User interface and navigation/usability		Up to 5	5	Page header, nicer tables, beautiful stolen images for all products, very beautiful graph, nice styling on buttons
Added admin boolean to customer table so the website can check if the user is an admin before accessing the admin panel and listorders		2	2	data.ddl
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)		65	60	

Walkthrough from the customer perspective:

This is the homepage that welcomes users to the magical place that is OnlyDucks. Users have the option to navigate to our products page, view their cart, or login from here.	
On the products page, users can choose from a plethora of bathtime companions. They can select from over 20 ducks in five exciting categories. Of course the list of products is searchable, and ordered by popularity (number of orders containing the duck)	
Users can also view more details about individual ducks.	
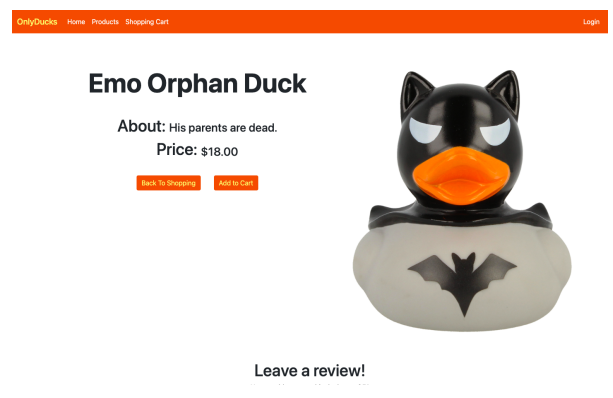
After reading the rave reviews others have left for the "Emo Orphan Duck", users can easily add this duck to their shopping cart. Reviews can only be left if a user is logged in and has bought the product. Reviews are also limited to one per user.

Once users add a product to their cart, they can choose to checkout or continue shopping. They also have the option to increase the quantity ordered or remove products from their cart.

Upon clicking on checkout, the system asks the user to login. If the user is new to the site, they can sign up.

On the signup page, users need to fill all fields and enter a valid email address, phone number, and Canadian postal code. OnlyDucks only accepts Canadian shipping addresses.

After signing up, the user can now login with their new username and password.	OnlyDucks Home Products Shopping Cart Login **Please Login to System** Account creation successful! Username: Username Password: Password Sign Up Log In
They can confirm their order or cancel to return to their cart.	OnlyDucks Home Products Shopping Cart ducklover1999 **Confirm Order** Submit Order Cancel
After confirming their order, they can view a summary.	OnlyDucks Home Products Shopping Cart ducklover1999 **Your Order Summary** Product Id — Product Name — Quantity — Price — Subtotal 1 — Emo Orphan Duck — 1 — $18.00 — $18.00 Order Total — $18.00 Order completed. Click below for shipping details See shipment details Your order reference number is: 7 Shipping to customer: 7 Name: Steven Stevenson
Shipment information can also be viewed.	OnlyDucks Home Products Shopping Cart ducklover1999 Ordered product: 1 Qty: 1 Previous inventory: 5 New inventory: 4 Shipment successfully processed. Return to homepage
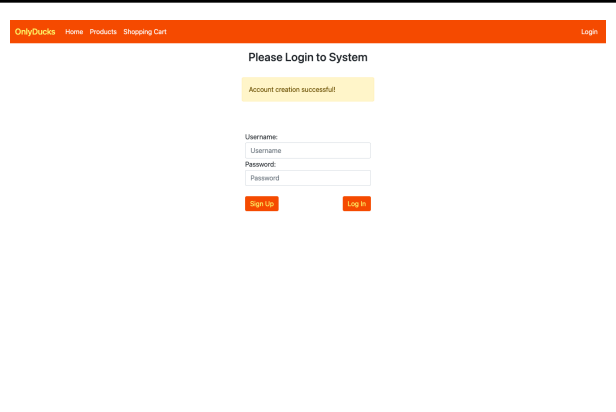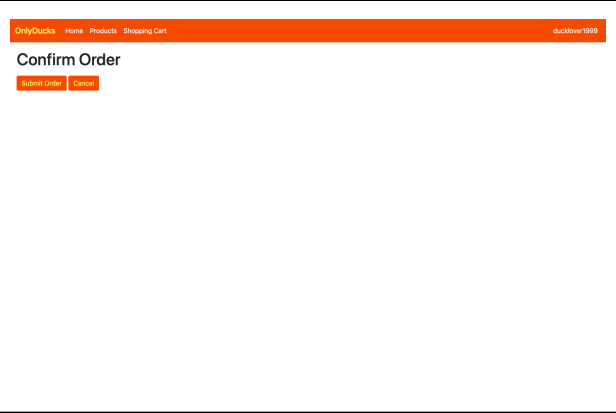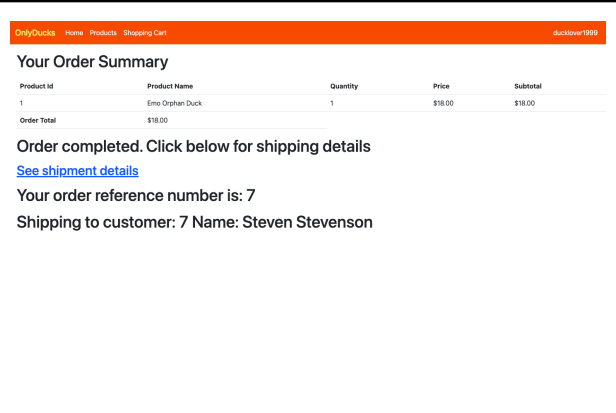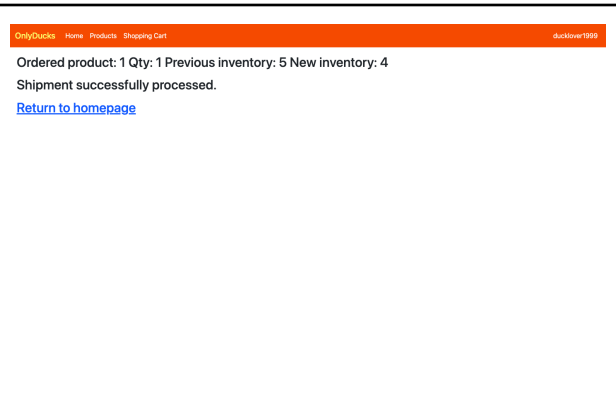
Upon clicking on their username in the top right corner of the website header, users are presented with an overview of their profile. Here, they can choose to view their order history or edit their account.

Customer Profile For Steven

ID	7
First Name	Steven
Last Name	Stevenson
Email	ducklover1999@mail.com
Phone	123-456-7890
Address	1234 Main Street
City	Edmonton
State	Alberta
Postal Code	T5A 0A5
Country	Canada
User ID	ducklover1999

Order History   Edit Account   Logout

Users can change any information they wish in the edit account tab. The information is validated to ensure that the phone number, email, and postal code follow Canadian standards. Also, users can't change their username to a username that is already taken by another user.

Edit Account

This username is already taken. Please choose another.

First Name: Steven   Last Name: Stevenson
Username: arnold   Email address: ducklover1999@mail.com
Password: ....   Phone Number: 123-456-7890
Address: 1234 Main Street
City: Edmonton   Province: Alberta
Postal Code: T5A 0A5   Country: Canada

Cancel   Save

If users click on view orders, they can see an overview of products they have purchased in the past.

Your Orders

Order ID	Total Amount		Order Date
7	$18.00		2022-12-08

Product Name	Quantity	Price
Emo Orphan Duck	1	$18.00

Now the only thing left to do is leave a review: After purchasing the "Emo Orphan Duck", test user Steven can let others know his thoughts about the product.

Leave a review!

How would you rate this duck out of 5?
◯ 1   ◯ 2   ◯ 3   ◯ 4   ◉ 5

I really liked this product. Thank you to Ramon Lawrence and all TAs whose support made this website possible!

Submit Review

4/5   Arnold Anderson reviewed this product on 2019-10-15
       I thought this duck was great!
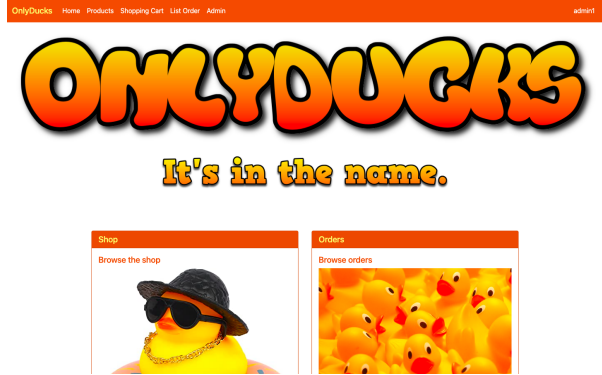
5/5   Bobby Brown reviewed this product on 2020-11-02
       Awesome product!

1/5   Candace Cole reviewed this product on 2022-05-16
       Never received my duck! I do not think this is even a real website...

Once he hits submit, the review is posted for all customers to see.	

Walkthrough from the admin perspective:

If a user is logged in with an admin account, they can access the products page and shopping cart like normal users, as well as the list orders page and the admin panel.	
On the list order page, administrators can see an overview of all orders that have been placed on the website.	

On the admin panel, administrators can see a daily sales report with a fun, duck-themed graph.

OnlyDucks Administrator Panel

Daily Sales Report

Order Date	Total Order Amount
2019-10-15	$509.10
2019-10-16	$106.75
2019-10-17	$327.85
2022-12-08	$129.00

Daily Sales Graph

Further down the page they can also see an overview of all customers and view and update their inventory by warehouse.

Customer Overview

User ID	Customer Name	Customer Email
arnold	Arnold Anderson	a.anderson@gmail.com
bobby	Bobby Brown	bobby.brown@hotmail.ca
candace	Candace Cole	cole@charity.org
darren	Darren Doe	oe@doe.com
beth	Elizabeth Elliott	engel@uiowa.edu
ducklover1999	Steven Stevenson	ducklover1999@mail.com

Inventory by Warehouse

Warehouse Name: Main warehouse(ID: 1)

Product ID	Product Name	Product Inventory	
1	Emo Orphan Duck	4	Update Inventory
2	Murderer Duck	10	Update Inventory
3	College Dropout Duck	3	Update Inventory
4	Hon Hon Duck	2	Update Inventory
5	Steroid Duck	100	Update Inventory
6	Super Copper Duck	0	Update Inventory
7	Holy Duck	3	Update Inventory