

Summary

Welcome to the cloud. At welcome2the.cloud we specialize in online cloud product sales. We source our clouds globally from numerous biomes and climate types. Customers can browse for their favourite Cumulus, pick out their dream Stratus, and more generally shop for all their cloud needs. Our team of researchers have shown a growing consumer demand for clouds, and cloud-based products. We are fully setup to specialize and accommodate consumers cloud needs and adapt as they change. Welcome2the.cloud's inventory will include all the 8 main cloud types (Stratus, Cumulus, Cirrocumulus, Cirrus, Altostratus, Cumulonimbus, Stratocumulus), as well as a growing collection of cloud-based storage products (Cumulus shelves, Altostratus dressers, Cirrus armoires).

System Features

Final Overall System Features	Category	Possible Points	Points
Documentation (10 total points)			
Executive Summary (up to 1 page)	Core	2	
System Features (2 pages)	Core	2	
Walkthrough with screenshots (up to 10 pages)	Core	6	
Hosting (5 total points)			
Running on cosc304 or external server	Core	5	
Main/Home Page (up to 14 total points)			
Search for a product by name	Core	1	
Browse products by category	Core	1	
List products (by search/browse)	Core	1	
List products with image	Core	1	
Page header with menu	Basic	1	
Page header shows current logged in user	Basic	1	
Improved UI (user-friendly, images, etc.)	Basic	2	
Shopping Cart (up to 9 total points)			
Add to shopping cart	Core	1	
View shopping cart	Core	1	
Update quantity (with data validation)	Basic	2	
Remove item from shopping cart	Basic	1	
Improved formatting/UI (e.g. in header bar)	Basic	1	
Checkout (up to 9 total points)			
Checkout with customer id	Core	1	

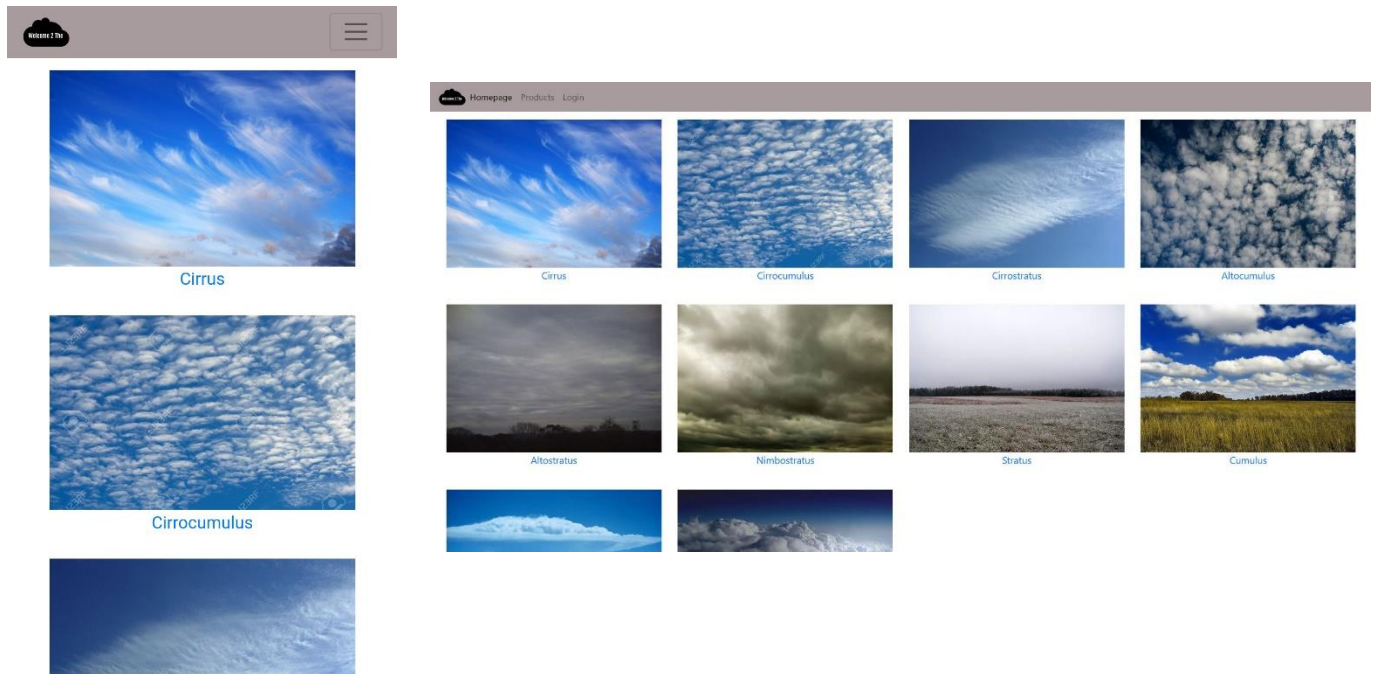
Checkout with payment/shipment info	Basic	2	
Checkout with data validation	Basic	2	
Product Detail Page (up to 3 total points)			
Product detail page and item description	Core	1	
Product detail has an image	Core	1	
User Accounts/Login (up to 16 total points)			
Create user account page	Basic	3	
Create account with data validation	Basic	3	
Edit user account info (address, password)	Basic	3	
Login/logout	Core	2	
Page listing all orders for user	Core	1	
Administrator Portal (up to 21 total points)			
Secured by login	Core	1	
List all customers	Core	1	
List report showing total sales/orders	Core	1	
Add new product	Basic	2	
Upload a photo to file system for product	Advanced	2	
Database restore with SQL script	Basic	2	
Database System/General			
Use AJAX for some pages	Advanced	4	
User interface and navigation/usability		Up to 5	
<i>Rewrote login validation to use token verification</i>		2?	
Rewrote database and functions to use hashed and salted passwords		3?	
Rewrote DB and functions so it could be run on MySQL		3?	
Set-Up TravisCI and auto-deployment for git to an AWS Server		5?	
Total: (out of 50 with maximum of 10 bonus marks. i.e. 60 points out of 50 is max.)		50	

Walkthrough

The walkthrough will display the mobile version images on the left and the desktop images on the right.

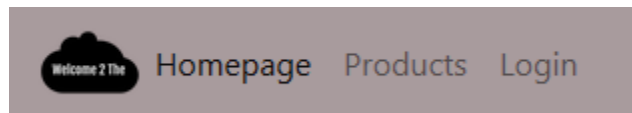
Homepage

If you connect to welcome2the.cloud it will automatically redirect you to the homepage which displays images of all the products which link to their description pages:



Navigation Bar

If you look in the top left corner of both the desktop and mobile versions of the page, you can see that there is a navigation bar with products and login that looks like the following:



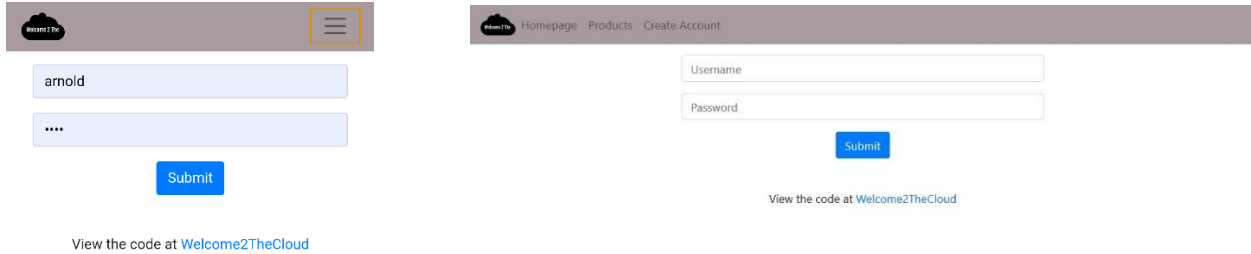
Once you have logged in the navigation bar updates to include both an admin and user dropdowns



with the user's name, while removing the login button. This was done using JavaScript and token authentication which is stored as a session variable.

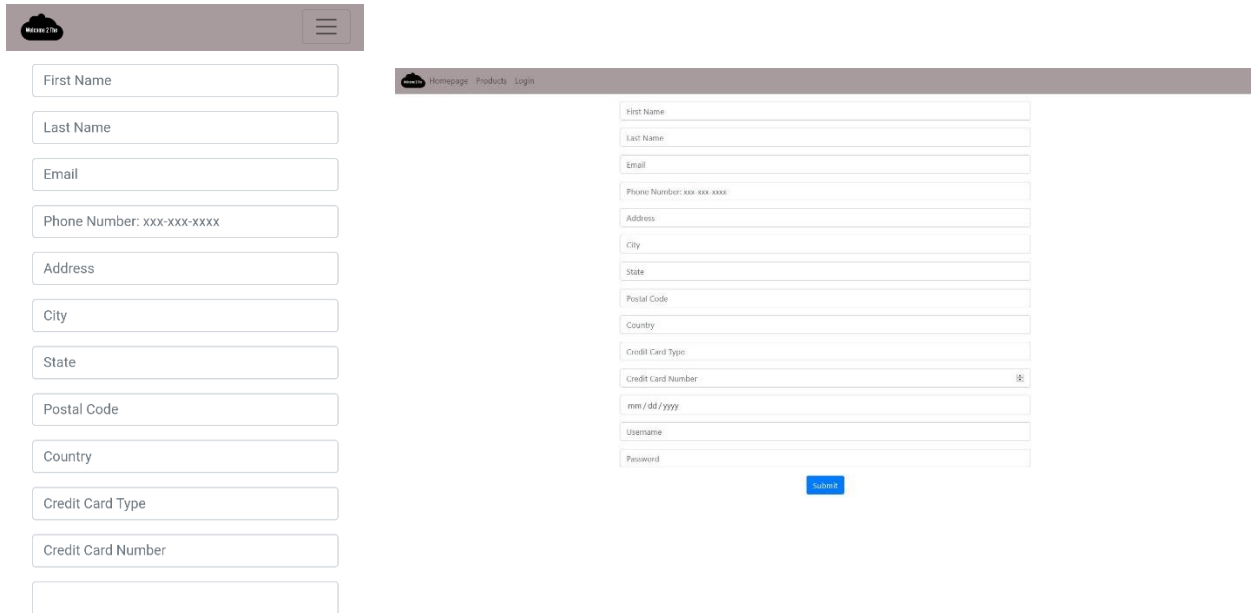
Login

The login page uses a combination of front end and back end validation to ensure that the user logs in properly. Once logged in, the user is redirected back to the [homepage](#):



Create Account

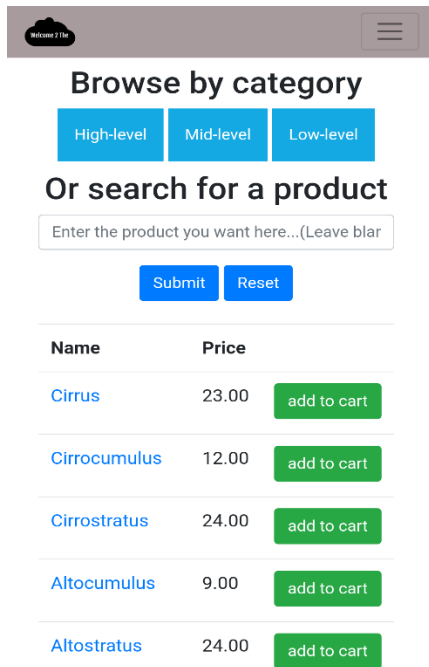
The create account tab is only visible if you access the login tab in the navigation bar first. This will send you to a page with the following:



The page itself used a basic AJAX call and form validation to ensure that the user's account is successfully created before redirecting back to the [homepage](#).

Products

If you click on the Products tab in the navigation bar, you can then go and view the different products available on the store:



Browse by category

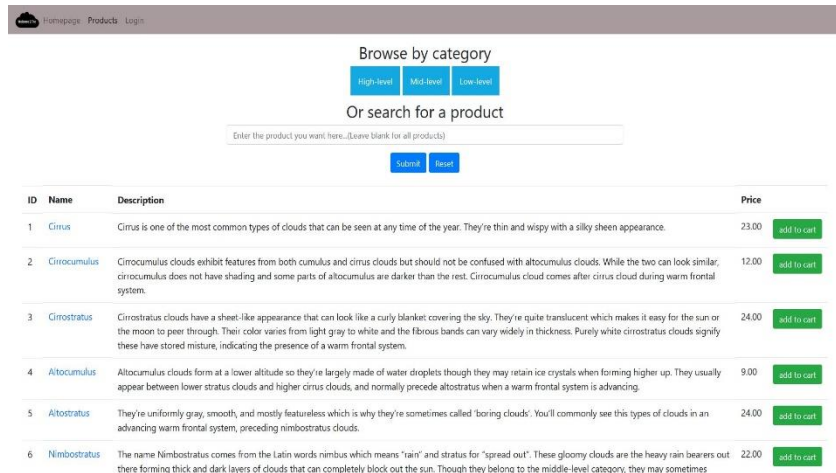
High-level Mid-level Low-level

Or search for a product

Enter the product you want here...(Leave blank)

Submit Reset

Name	Price	
Cirrus	23.00	add to cart
Cirrocumulus	12.00	add to cart
Cirrostratus	24.00	add to cart
Alto cumulus	9.00	add to cart
Altostratus	24.00	add to cart



Browse by category

High-level Mid-level Low-level

Or search for a product

Enter the product you want here...(Leave blank for all products)

Submit Reset

ID	Name	Description	Price	
1	Cirrus	Cirrus is one of the most common types of clouds that can be seen at any time of the year. They're thin and wispy with a silky sheen appearance.	23.00	add to cart
2	Cirrocumulus	Cirrocumulus clouds exhibit features from both cumulus and cirrus clouds but should not be confused with alto cumulus clouds. While the two can look similar, cirrocumulus does not have shading and some parts of alto cumulus are darker than the rest. Cirrocumulus cloud comes after cirrus cloud during warm frontal system.	12.00	add to cart
3	Cirrostratus	Cirrostratus clouds have a sheet-like appearance that can look like a curly blanket covering the sky. They're quite translucent which makes it easy for the sun or the moon to peer through. Their color varies from light gray to white and the fibrous bands can vary widely in thickness. Purely white cirrostratus clouds signify these have stored moisture, indicating the presence of a warm frontal system.	24.00	add to cart
4	Alto cumulus	Alto cumulus clouds form at a lower altitude so they're largely made of water droplets though they may retain ice crystals when forming higher up. They usually appear between lower stratus clouds and higher cirrus clouds, and normally precede altostratus when a warm frontal system is advancing.	9.00	add to cart
5	Altostratus	They're uniformly gray, smooth, and mostly featureless which is why they're sometimes called 'boring clouds'. You'll commonly see this types of clouds in an advancing warm frontal system, preceding nimbostratus clouds.	24.00	add to cart
6	Nimbostratus	The name Nimbostratus comes from the Latin words nimbus which means "rain" and stratus for "spread out". These gloomy clouds are the heavy rain bearers out there forming thick and dark layers of clouds that can completely block out the sun. Though they belong to the middle-level category, they may sometimes	22.00	add to cart

You can view more information about a product by either clicking on the different category tabs and selecting a product, by simply scrolling through and clicking on the name of the product, or by using the search-bar which searches by product name.

If you want to add the product to the cart, you can click on the **add to cart** button. This redirects you to the [Shopping Cart page](#).

Product Description

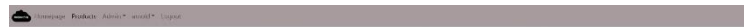
The product description page simply gives the user a summary of the product and an image, along with the option to [add to cart](#) or return to the [main shopping page](#).



Cirrus is one of the most common types of clouds that can be seen at any time of the year. They're thin and wispy with a silky sheen appearance.

add to cart

Continue Shopping



Cirrus is one of the most common types of clouds that can be seen at any time of the year. They're thin and wispy with a silky sheen appearance.

add to cart Continue Shopping

View the code at [Welcome2TheCloud](#)

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Shopping Cart

The shopping cart page summarises what the user has put into their cart, along with the price and amounts. This page allows the user to adjust the amount of a product that they intend on buying or remove items from the cart. You can finalize your order by clicking checkout (redirects to [checkout](#)).



Shopping Cart

Product Name	Quantity	Subtotal	Remove	Update
Cirrus	<input type="text" value="1"/>	\$23.00	✕	<input type="button" value="Update"/>

Order Total \$23.00

Check Out

Continue Shopping

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Shopping Cart

id	Product Name	Quantity	Price	Subtotal	Remove	Update
1	Cirrus	<input type="text" value="1"/>	\$23.00	\$46.00	✕	<input type="button" value="Update"/>

Order Total \$46.00

Check Out Continue Shopping

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Checkout

The checkout is a middle page between the shopping cart and the order completion/order information page. We changed the page so it requires the username and password of the user instead

of the customerID as it is unrealistic that a user would remember the ID assigned to them on account creation. If this page is successful, it will redirect the user to the [order information page](#).

Enter your username and password to complete the transaction

arnold

....

Submit Reset

View the code at [Welcome2TheCloud](#)

arnold Logout

Enter your username and password to complete the transaction

Username

password

Submit Reset

View the code at [Welcome2TheCloud](#)

Order Information

The order information page simply allows the user to view the summary of their order.

Your total is \$23.00

Your order reference number is: 9

Customer ID: 1

Customer Name: Arnold Anderson

Shipping to: 103 AnyWhere Street, Winnipeg, MB, Canada

Payment Type:

Product Id	Quantity	Price	Product Name
1	1	\$23.00	Cirrus

View the code at [Welcome2TheCloud](#)

Homepage Products Admin ▶ arnold ▶ Logout

Your total is \$23.00

Your order reference number is: 14

Customer ID: 1

Customer Name: Arnold Anderson

Shipping to: 103 AnyWhere Street, Winnipeg, MB, Canada

Payment Type:

Product Id	Quantity	Price	Product Name
1	1	\$23.00	Cirrus

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Admin Functionality

Admin Overview

The admin overview page can be found under the **Admin** dropdown when logged in. This provides a summary of recent orders, summary of all customers, and a summary of the total sales. There is

also a reload database button at the bottom of the page which resets the database to its original values. **Warning:** You must be logged in to reset the database.



Orders

Order Date	Total Order Amount
2019-10-15	\$509.10
2019-10-16	\$106.75
2019-10-17	\$327.85
2019-11-29	\$46.00
2019-11-30	\$23.00

Customers

User ID	Name	Username
1	Arnold Anderson	arnold
2	Bobby Brown	bobby
3	Candace Cole	candace

The screenshot shows the application interface with the following data:

Orders

Order Date	Total Order Amount
2019-10-15	\$509.10
2019-10-16	\$106.75
2019-10-17	\$327.85
2019-11-29	\$46.00
2019-11-30	\$23.00

Customers

User ID	Name	Username
1	Arnold Anderson	arnold
2	Bobby Brown	bobby
3	Candace Cole	candace
4	Darren Doe	darren
5	Elizabeth Elliot	beth

Total Sales

Total Orders	Total Sales
12	\$1127.00

At the bottom of the dashboard, there is a red button labeled "Reload Database".

Add Product

The add product page can be found under the **Admin** dropdown when logged in. This allows the user to add a new product, along with an image to the database. Currently there are only 3 categories (1, 2, or 3) as the database was not configured to allow for additional categories to be added.



Product Name

Product Price

Choose file

Product Description

Category Id

View the code at [Welcome2TheCloud](#)



Admin ▾ arnold ▾ Logout

Product Name

Product Price

Choose file

Product Description

Category Id

View the code at [Welcome2TheCloud](#)

All Orders

The all orders tab can be found under the **Admin** dropdown when logged in. This displays a page full of individual dropdowns with order numbers. If you click on any of the order numbers, it will display the summary for that order.

The screenshot shows the 'All Orders' page. On the left, there is a vertical list of order numbers from 1 to 6. Order Number 3 is highlighted. On the right, a detailed view of Order Number 3 is displayed. The order details include:

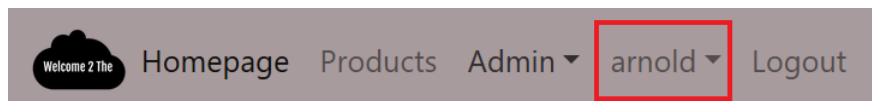
- Order Number: 3
- Order Date: 2019-10-15 03:30:22
- Customer Id: 3
- Name: Candace Cole
- Total Cost: \$140.00

Product Id	Quantity	Price
6	2	\$25.00
7	3	\$30.00

Below the detailed view, there is a list of order numbers from 2 to 9.

User Functionality

The drop-down navigator for the user's activity (see [user summary](#), [view cart](#) and [my orders](#)) is displayed as the username of the logged in user. In the image below, the dropdown reads "arnold" as Arnold is logged in. We will refer to this dropdown as **< username >**.

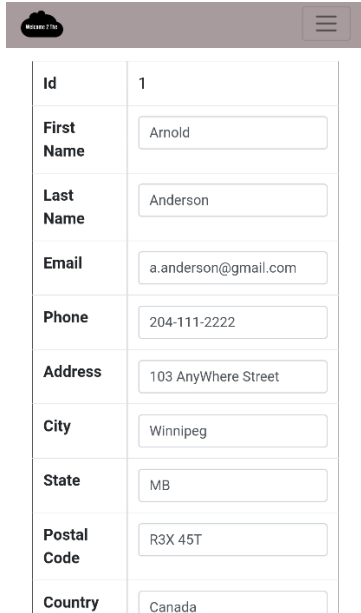


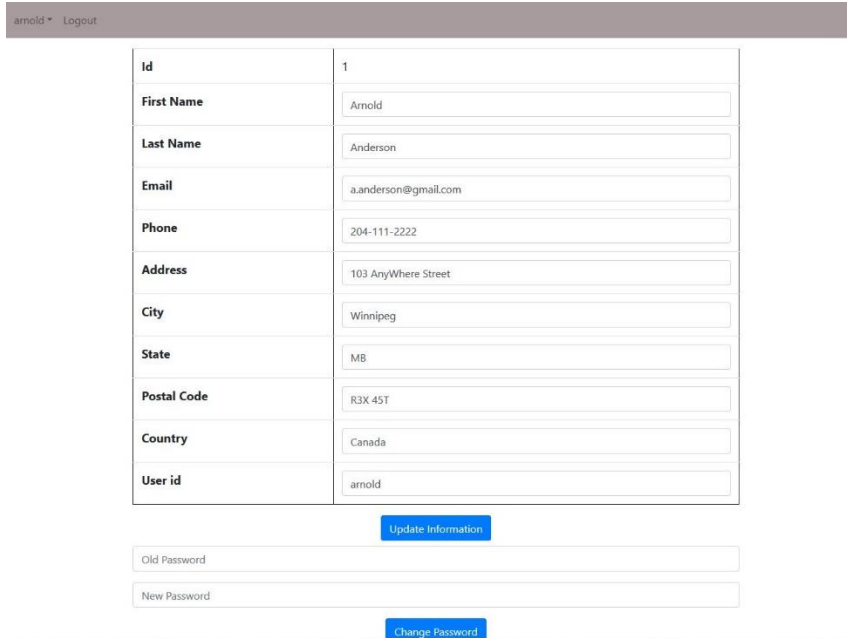
User Summary

The user summary can be found under the **< username >** navigation dropdown and allows the user to view and modify their information. To do so, they simply must modify the information within the displayed fields and click the update information button.

If the user would like to change their password, they must type in the old password and the new password, then click on the change password button.

Both updates will automatically be applied, and the page will be refreshed to reflect the changes.



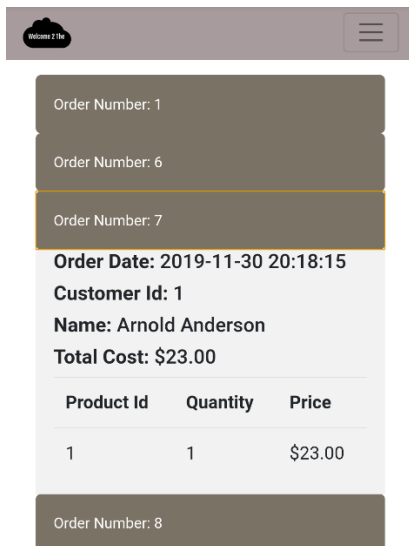


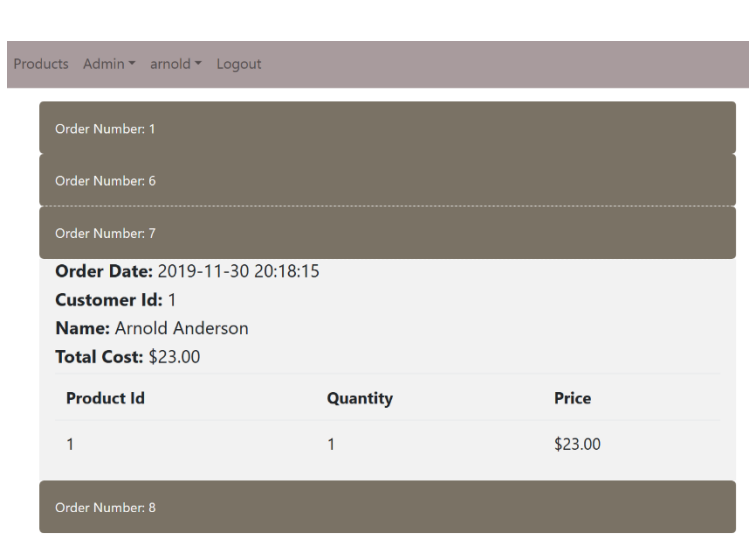
View Cart

The view can be found under the < *username* > navigation dropdown and allows the user to view the [cart page](#).

My Orders

My orders page can be found under the < *username* > navigation dropdown and allows the user to view their orders with the same functionality as the [all orders page](#).





View the code at [Welcome2TheCloud](#)