



Welcome to The End of The RAINBOW!!!

COVID got you feeling down about the state of the world?
Come on by and spread some joy!

<http://127.0.0.1/shop/index.jsp>

Note: Please visit <http://127.0.0.1/shop/loaddata.jsp> first.

December 5, 2020
Corey Bond

1. Purpose

Mission Statement:

Our mission is to bring kindness and joy back into the world by providing people with a means to safely share thoughts, feelings, actions, and behaviours with those around them.

Executive Summary:

2020 has been a tough year for all of us – the pandemic has added a high degree of stress and financial hardship to many different people all over the world. Families and friends are separated, and feelings of isolation are becoming ubiquitous. **That's where we come in:** You won't find any negativity here, just optimism, good will, and bright colours!

The End of The Rainbow has 5 categories of products for sale:

1. **Thoughts** – A way for you to let someone know you are thinking of them, and hopefully brighten their day! Send well wishes or insight to those that need it.
2. **Feelings** – Do you miss someone? Send them some positive feelings to brighten their day and let them know that you are there for them! Spread joy and happiness, we could always use more.
3. **Actions** – Looking for something more concrete than thoughts and feelings? Actions provide a tangible way for people to send goodwill to those they love. If you don't have anyone in mind, we have a "good deeds" option where a good deed will be performed for a stranger in need. Think of it as paying it forward.
4. **Behaviours** – The behaviour we all wish we saw in those around us! It is in your power to foster those behaviours in others or in yourself. Feeling listless? Learn some leadership skills and feel better about your ability to guide others to success (whatever success may look like for you). Knowledge is our only item with a large price tag – society places a large value on knowledge, so if you're looking to buy it, it will cost you. Won't it be better to go out and explore or learn about the world for free through curiosity and respect?
5. **Merchandise** – This is our most practical and tangible category. Let's face it – sometimes when you're feeling low you need a bit of shopping therapy! Purchase one of our mugs or t-shirts and show off your love of the rainbow!

Our goal is to be a beacon of light and positivity. The only way we can move forward in these trying times is to reach out to others and provide them with a source of hope and happiness. Be the first to reach out and see how it spreads. We all saw the movie, right? Positivity and good deeds have the ability to grow exponentially if we just try.

2. System Features

Final Overall System Features	Category	Possible Points	Points	Comments / Code Files
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Documentation

Executive Summary (up to 1 page)	Core	2		Section 1
System Features (2 pages)	Core	2		Section 2
Walkthrough with screenshots (up to 10 pages)	Core	6		Section 3

Main/Home Page

Search for a product by name	Core	1		<i>listprod.jsp</i>
Browse products by category	Core	1		<i>listprod.jsp</i>
List products (by search/browse)	Core	1		<i>listprod.jsp</i>
List products with image	Core	1		<i>listprod.jsp, product.jsp</i>
Page header with menu	Basic	1		<i>header.jsp</i>
Page header shows current logged in user	Basic	1		<i>header.jsp</i>
Dynamic products on page based on sales	Basic	2		<i>listprod.jsp</i>
Improved UI (user-friendly, images, etc.)	Basic	2		<i>index.jsp, listprod.jsp</i>

Shopping Cart

Add to shopping cart	Core	1		<i>addcart.jsp, listprod.jsp, product.jsp</i>
View shopping cart	Core	1		<i>showcart.jsp</i>
Update quantity (with data validation)	Basic	1		<i>showcart.jsp</i>
Remove item from shopping cart	Basic	1		<i>showcart.jsp</i>
Improved formatting/UI (e.g. in header bar)	Basic	1		<i>header.jsp, template.css, showcart.jsp</i>

Checkout

Checkout with customer id	Core	1		<i>checkout.jsp</i>
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Product Detail Page

Product detail page and item description	Core	1		<i>product.jsp</i>
Product detail has an image from database	Core	1		<i>product.jsp - productImageURL</i>

System Features continued...**User Accounts/Login**

Create user account page	Basic	2		<i>createUser.jsp, customer.jsp</i>
Create account with data validation	Basic	2		<i>login.jsp, createUser.jsp, insertUser.jsp</i>
Edit user account info (address, password)	Basic	2		<i>customer.jsp, updateUser.jsp</i>
Login/logout	Core	1		<i>login.jsp, logout.jsp, validateLogin.jsp</i>
Page listing all orders for user	Core	1		<i>listorder.jsp</i> (admin sees all orders)

Product Reviews

Ability to enter a review on a product	Basic	2		<i>product.jsp, addReview.jsp</i>
Display product review on product detail page	Basic	1		<i>product.jsp</i>
Restrict to one review per user on item purchased	Advanced	2		<i>product.jsp, addReview.jsp</i>

Warehouses/Inventory

Display item inventory by store/warehouse	Basic	2		<i>admin.jsp</i> – only admin can see
Edit item inventory by store/warehouse	Advanced	3		<i>admin.jsp, inventoryUpdate.jsp</i>

Administrator Portal

Secured by login	Core	1		<i>admin.jsp, adminBool.jsp</i>
List all customers	Core	1		<i>admin.jsp</i>
List report showing total sales/orders	Core	1		<i>listorder.jsp, admin.jsp</i>
Add new product	Basic	2		<i>admin.jsp, addProduct.jsp</i>
Update/delete product	Basic	2		<i>admin.jsp, productUpdate.jsp, updateProduct.jsp, deleteProduct.jsp</i>
Change order status/ship order	Basic	1		<i>admin.jsp, ship.jsp</i>
Database restore with SQL script	Basic	2		<i>admin.jsp, loaddata.jsp</i>
Add/update warehouse, customer	Basic	2		<i>admin.jsp, warehouseUpdate.jsp, addWarehouse.jsp, createUser.jsp, customerUpdate.jsp, updateUser.jsp</i>

Database System/General

User interface and navigation/usability		Up to 5		2 for navigation.
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Total:		60		
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2. System Walkthrough

Admin user:

Corey Bond

Username: corey

Password: admin

Generic sample user:

Arnold Anderson

Username: arnold

Password: test

Bobby Brown

Username: bobby

Password: bobby

Candace Cole

Username: candace

Password: password

Darren Doe

Username: darren

Password: pw

Elizabeth Elliott

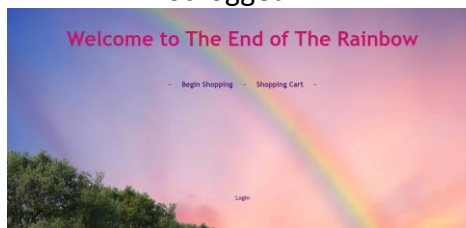
Username: beth

Password: test

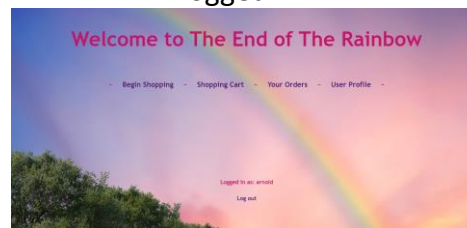
Home Page: *index.jsp*

Welcome to the website! This is our lovely home page, and it features three different views depending on whether a user is logged in, and whether a logged in user is an admin. Notice that each version boasts links relevant to the user's status.

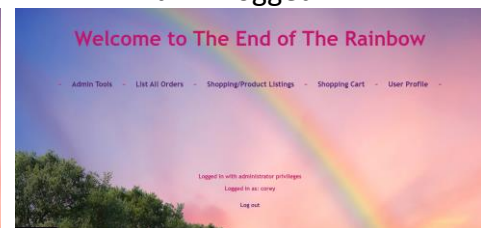
Not logged in



Logged in



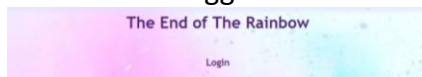
Admin logged in



Header: *header.jsp*

Many of the pages of our website feature headers. There are again three different versions depending on the user, featuring navigation links that are relevant to the user.

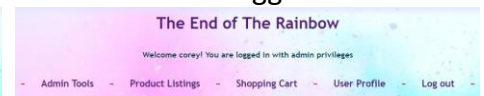
Not logged in



Logged in



Admin logged in



Admin Tools: *admin.jsp*

The admin tools link is only available to users who are logged in as admins. It boasts a wide array of helpful tools for the admin to monitor and maintain the website and database. We'll go through it one by one.

Administrator Sales Report by Day:

A brief overview of total sales per day, including a count of daily orders (notice how a mouse hovering over the row in the table highlights it – this is a feature throughout the website, for those of us with terrible eyesight!

Administrator Sales Report by Day

Order Date	Total Order Amount	Total Daily Orders
2019-10-15	\$186.29	3
2019-10-16	\$37.50	1
2019-10-17	\$241.00	1
2020-12-6	\$19.00	1

Ship Orders

An option for the admin to individually ship orders by number, or navigate through to the order listing page.

Ship Orders

Order Id

[View Orders](#)

Simply input the order number, and if there is enough inventory it will be processed. If an item does not have enough inventory, it will not ship, and will list an error message for that item:

Enough inventory

Ordered product: 5 Qty: 5 Previous inventory: 6 New inventory: 1

Shipment successfully processed.

[Back to Admin Page](#)

Not enough inventory

Ordered product: 6 Qty: 2 Previous inventory: 3 New inventory: 1

Shipment not done. Insufficient inventory for product id: 7

[Back to Admin Page](#)

Product Details

A summary table of all products listed on the website and in the database, ordered by the product ID value, and including the image name associated with each item.

Product Details

Product ID	Product Name	Price	Image URL	Description	Category Id
1	Well Wishes	4.00	img/1.jpg	Send well wishes to a loved one	1
2	Insight	15.00	img/2.jpg	Provides insight and direction	1
3	Positivity	1.00	img/3.jpg	We could all use some positivity	1
4	Kindness	0.50	img/4.jpg	Share some kindness with a stranger	1
5	Enthusiasm	7.50	img/5.jpg	Experience enthusiasm	2
6	Joy	10.01	img/6.jpg	Experience joy	2
7	Excitement	12.34	img/7.jpg	Experience excitement	2
8	Happiness	5.00	img/8.jpg	Don't you want to be happy?	2
9	Good Deeds	2.75	img/9.jpg	Do a good deed for a stranger	3
10	Help	1.25	img/10.jpg	Provide help to someone that needs it	3
11	Celebration	45.00	img/11.jpg	Celebrate someone's achievements	3
12	Volunteer	0.01	img/12.jpg	Volunteer your time	3
13	Leadership	38.00	img/13.jpg	Increase your leadership skills	4
14	Honesty	24.42	img/14.jpg	Provide a dose of honesty	4

Update Product Information

Admins are able to type in a product id, and they will be taken to a page populated with the product details, where they will be able to make changes. The field will only allow the user to type in positive integers. If the field is empty, or if the product number does not exist in the system, the screen will display an error message telling the admin what was wrong:

Input field

Update Product Information

Product Id View Product

Empty value

Product Id must contain a value, please go back and try again

Back

Non-existent Id

Product Id does not exist, please go back and try again

Back

In addition to being prepopulated with the existing product details, the product page will only allow relevant data types, and the product id is read only. Note that the user will be redirected back to the admin page upon successful update of the data fields.

Product Information

Product Id	28
Product Name	End of The Rainbow T-Shirt
Price	18.00
Image URL	img/25.jpg
Description	100% Cotton, size large
Category Id	5

Update changed fields

Delete Product

The user is able to remove products from the system, the input field only allows positive integers, and if the item does not exist, it will simply not be deleted. If the field is left empty, it will advise the user of the issue. Successful deletion will redirect the user back to the admin page.

Input field

Delete Product

Product Id Delete Product

Empty value

Product Id must contain a value, please go back and try again

Back

Add Product

Admins are able to add products to the system by filling in the details. The product name is required, and has a trigger suggesting so. If the user opts to leave it as "Required", that's what the product will be called. The price and category id are also prepopulated with default values. This allows the system to not throw an error if they are forgotten. Successful addition of a product to the database will redirect back to the admin page.

Add Product

Product Name	Required
Price	00.00
Image URL	
Description	
Category Id	1

Add Product

Customer Details

A summary table of all registered users and some basic associated information. Note that whether a user is an admin or not is included:

Customer Details					
Customer ID	User Id	First Name	Last Name	Country	Admin Privileges?
1	corey	Corey	Bond	Canada	yes
2	arnold	Arnold	Anderson	Canada	no
3	bobby	Bobby	Brown	United States	no
4	candace	Candace	Cole	United States	no
5	darren	Darren	Doe	Canada	no
6	beth	Elizabeth	Elliott	United States	no

Update Customer Information

Admins are able to type in a customer id, and they will be taken to a page populated with the full customer details, where they will be able to make changes. The field will only allow the user to type in positive integers. If the field is empty, or if the customer number does not exist in the system, the screen will display an error message telling the admin what was wrong:

Input field

Empty value

Non-existent Id

Update Customer Information

Customer Id

Customer Id must contain a value, please go back and try again

Customer Id does not exist, please go back and try again

In addition to being prepopulated with the existing customer detail pages, the customer page will only allow relevant data types, and the customer id and username are read only. Note that the user will be redirected back to the admin page upon successful update of the data fields.

Customer Information

Id	<input type="text" value="6"/>
First Name	<input type="text" value="Elizabeth"/>
Last Name	<input type="text" value="Elliott"/>
Email	<input type="text" value="engel@uiowa.edu"/>
Phone	<input type="text" value="555-666-7777"/>
Address	<input type="text" value="555 Everwood Street"/>
City	<input type="text" value="Iowa City"/>
State	<input type="text" value="IA"/>
Postal Code	<input type="text" value="52241"/>
Country	<input type="text" value="United States"/>
User Id	<input type="text" value="beth"/>
Password	<input type="password" value="...."/>

Add Customer

The admin is able to add a customer to the system – if they opt to leave fields blank, the system will simply create a user where all of the fields are blank. Notice that the “Admin” field is prepopulated with no in the dropdown in order to avoid accidentally giving users admin privileges. If they should be an admin, it is simple to change it to yes.

Add Customer

Username:

First Name:

Last Name:

Password:

Email Address:

Phone Number:

Street Address:

City:

State:

Postal Code:

Country:

Admin:

Warehouse Details

This is a summary table that includes the warehouse Id as well as the warehouse name, and all of the products and associated inventory associated with each warehouse.

Warehouse Details

Warehouse Id	Warehouse Name		
1	Main warehouse		
	Product Id	Quantity	Price
	1	5	\$4.00
	2	10	\$15.00
	4	2	\$0.50
	5	1	\$7.50
	6	3	\$10.01
	7	1	\$12.34
	8	0	\$5.00
	9	2	\$2.75
	10	3	\$1.25
	11	3	\$45.00
	12	3	\$0.01
	13	3	\$38.00
	14	3	\$24.42

Notice how the background colour has changed as we scroll down – isn't that lovely?!

Add Warehouse

Similar to customers and products, admins can also add warehouses. However, in this case they simply need to type in a warehouse name, and it will be added. Empty fields will be entered without a name. Once the warehouse is added, the user will be redirected to the admin page.

Add Warehouse

Warehouse Name

Update Warehouse Name

If an admin needs to change the name of a warehouse that they just added with an empty name field, they simply need to fill in the existing warehouse id and the new name. Similarly to the others, if the

warehouse id field is left blank, the user will receive an error message. Successful update will redirect the user back to the admin page.

Input field

Update Warehouse Name

Warehouse Id	Warehouse Name
<input type="text"/>	<input type="text"/>

Empty value

Warehouse Id must contain a value, please go back and try again

[Back](#)

Update Inventory

Product inventory is either added or updated depending on whether the product already exists at the factory or not. In order to avoid confusion about whether it adds or replaces the value, the screen advises the user that the quantity changes to the new value – it is not added. If one or more of the values is left blank, the user is given an error message. Upon successful addition/update, the user is redirected back to the admin screen.

Input field

Update Inventory

Note that existing inventory quantity updates to value inputted - does not add value inputted

Warehouse Id	Product Id	New Quantity
<input type="text"/>	<input type="text"/>	<input type="text"/>

Empty value

At least one value is missing, please go back and try again

[Back](#)

Reset Database

Lastly in the admin screen, if an admin needs to reset the database (say they just went down the entire screen, adding random values as they went), they can click the link to reset. Notice the warning!

Reset Database

WARNING: This resets the database to default!

[Reset Database](#)

Load the Database: *loaddata.jsp*

Navigating to this page by typing it in, navigating from the image at shop.html (defunct old page that I had bookmarked, and would visit first), or from the admin screen will reload the database, getting rid of any changes that have been made. It provides links either back to the main page or the admin page

Connecting to database.

Database loaded.

[Return to Main Page](#)

[Return to Admin Page](#)

Order List: *listorder.jsp*

Navigating through to the order listing page, users logged in as admin will see all orders:

Order List																			
Order Id	Order Date	Customer Id	Customer Name	Total Amount															
1	4.00	1	Corey Bond	\$20.25															
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1</td> <td>\$4.00</td> </tr> <tr> <td>5</td> <td>2</td> <td>\$7.50</td> </tr> <tr> <td>10</td> <td>1</td> <td>\$1.25</td> </tr> <tr> <td>Total:</td> <td>4</td> <td>\$20.25</td> </tr> </tbody> </table>	Product Id	Quantity	Price	1	1	\$4.00	5	2	\$7.50	10	1	\$1.25	Total:	4	\$20.25
Product Id	Quantity	Price																	
1	1	\$4.00																	
5	2	\$7.50																	
10	1	\$1.25																	
Total:	4	\$20.25																	
2	7.50	2	Arnold Anderson	\$37.50															
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5</td> <td>\$7.50</td> </tr> <tr> <td>Total:</td> <td>5</td> <td>\$37.50</td> </tr> </tbody> </table>	Product Id	Quantity	Price	5	5	\$7.50	Total:	5	\$37.50						
Product Id	Quantity	Price																	
5	5	\$7.50																	
Total:	5	\$37.50																	
3	10.01	3	Bobby Brown	\$57.04															
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>2</td> <td>\$10.01</td> </tr> <tr> <td>7</td> <td>3</td> <td>\$12.34</td> </tr> <tr> <td>Total:</td> <td>5</td> <td>\$57.04</td> </tr> </tbody> </table>	Product Id	Quantity	Price	6	2	\$10.01	7	3	\$12.34	Total:	5	\$57.04			
Product Id	Quantity	Price																	
6	2	\$10.01																	
7	3	\$12.34																	
Total:	5	\$57.04																	
4	1.00	2	Arnold Anderson	\$241.00															
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>4</td> <td>\$1.00</td> </tr> </tbody> </table>	Product Id	Quantity	Price	3	4	\$1.00									
Product Id	Quantity	Price																	
3	4	\$1.00																	

Meanwhile, users logged in without admin privileges will simply see their orders:

Order List																									
Order Id	Order Date	Customer Id	Customer Name	Total Amount																					
2	7.50	2	Arnold Anderson	\$37.50																					
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>5</td> <td>5</td> <td>\$7.50</td> </tr> <tr> <td>Total:</td> <td>5</td> <td>\$37.50</td> </tr> </tbody> </table>	Product Id	Quantity	Price	5	5	\$7.50	Total:	5	\$37.50												
Product Id	Quantity	Price																							
5	5	\$7.50																							
Total:	5	\$37.50																							
4	1.00	2	Arnold Anderson	\$241.00																					
				<table border="1"> <thead> <tr> <th>Product Id</th> <th>Quantity</th> <th>Price</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>4</td> <td>\$1.00</td> </tr> <tr> <td>8</td> <td>3</td> <td>\$5.00</td> </tr> <tr> <td>13</td> <td>3</td> <td>\$38.00</td> </tr> <tr> <td>28</td> <td>2</td> <td>\$18.00</td> </tr> <tr> <td>29</td> <td>4</td> <td>\$18.00</td> </tr> <tr> <td>Total:</td> <td>16</td> <td>\$241.00</td> </tr> </tbody> </table>	Product Id	Quantity	Price	3	4	\$1.00	8	3	\$5.00	13	3	\$38.00	28	2	\$18.00	29	4	\$18.00	Total:	16	\$241.00
Product Id	Quantity	Price																							
3	4	\$1.00																							
8	3	\$5.00																							
13	3	\$38.00																							
28	2	\$18.00																							
29	4	\$18.00																							
Total:	16	\$241.00																							

Orders are broken down into sub-tables that include overall order information, as well as information about the quantity and price of each item ordered.

Login Page: *login.jsp*

Upon navigating to the login page, users have the option to login as an existing user or register as a new user. If they login with incorrect information, they will receive an error message.

Error message

No error message

If they choose to register as a new user, the system will check whether it is a valid username before proceeding to a page where the user can input their information. Note that the username field is populated with their choice, and is now read-only.

Unavailable username

Username is not available, please go back and try again

Back

Available username

Please Input Account Information

Username:	frank
First Name:	
Last Name:	
Password:	
Email Address:	
Phone Number:	
Street Address:	
City:	
State:	
Postal Code:	
Country:	

Submit

Upon successful login or registration, the user is redirected to the homepage, with the system having automatically signed them in with their new account.

User Profile: *customer.jsp*

This is the summary page where the user can view their existing information, and update if necessary. It is the same template that the admin sees, so the customer id and username are read only, and cannot be changed. Upon successful update, the customer will see an update message letting them know it was successful, that will be cleared the next time the customer visits the main page. There is also a link to the orders page, so that the customer may view the orders they have placed.

Customer Profile

Id	1
First Name	Corey
Last Name	Bond
Email	nottelling@gmail.com
Phone	123-555-4567
Address	712 Somewhere Drive
City	Anytown
State	BC
Postal Code	V1V 4NT
Country	Canada
User Id	corey
Password	*****

Update changed fields

Your Orders

Product Listing: *listprod.jsp*




The product listing page includes a dynamic banner across the top of the page, that updates with the top 3 highest selling items each time the page is loaded. This will encourage the customer to purchase these high-volume items.

Additionally, the customer is able to filter the products by category, search by product name, or a combination of both. They are also able to reset if they would like to view all items again.

Products are listed with colour coding according to category, and small preview images for the customer.

Clicking on add to cart will add the product to the customer's cart, while clicking the product name will open up a product detail page.






Top Selling Products:

	Image	Product Name	Category	Price
Add to Cart		Enthusiasm	Feelings	\$7.50
Add to Cart		End of The Rainbow T-Shirt - XL	Merchandise	\$18.00
Add to Cart		Positivity	Thoughts	\$1.00

Browse Products By Category and Search by Product Name:

All

All Products

	Image	Product Name	Category	Price
Add to Cart		Well Wishes	Thoughts	\$3.08
Add to Cart		Insight	Thoughts	\$15.00
Add to Cart		Positivity	Thoughts	\$1.00
Add to Cart		Kindness	Thoughts	\$0.50
Add to Cart		Enthusiasm	Feelings	\$7.50

Product Detail Page: *product.jsp*

Navigating to this page allows the customer to view the larger product image, as well as the product id, price, and full description. There are also user reviews populated on the page, as well as an entry field for the user to add their own review. If the user tries to post a review for a product they have not purchased, or an item they've already reviewed, they will receive an error message.

Enthusiasm



Id	5
Price	\$7.50
Description:	"Experience enthusiasm"

User Reviews:

Rating	Date	Review
4	2020-09-24	Helped me decide what to do

Add a review:

Rating:	<input type="text"/>
Date:	<input type="text" value="mm/dd/yyyy"/>
Customerid:	<input type="text"/>
Product Id:	<input type="text" value="5"/>
Review:	<input type="text"/>

Add to Cart

Continue Shopping

Shopping Cart: *showcart.jsp*

Users can view the items in their shopping cart, as well as update the quantities, or remove items they no longer want. From the cart, they are able to keep shopping, or continue shopping. A message is shown if the shopping cart is empty the first time it is visited, after that, it populates with an empty table.

Full cart

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal		
5	Enthusiasm	<input type="text" value="1"/>	\$7.50	\$7.50	Remove Item	<input type="button" value="Update Quantity"/>
17	Rainbow Mug	<input type="text" value="1"/>	\$12.50	\$12.50	Remove Item	<input type="button" value="Update Quantity"/>
29	End of The Rainbow T-Shirt - XL	<input type="text" value="1"/>	\$18.00	\$18.00	Remove Item	<input type="button" value="Update Quantity"/>
Order Total				\$38.00		

Check Out

[Continue Shopping](#)

Empty cart

Your shopping cart is empty!

[Continue Shopping](#)

Your Shopping Cart

Product Id	Product Name	Quantity	Price	Subtotal	
Order Total				\$0.00	

Check Out

[Continue Shopping](#)

Checkout: *checkout.jsp*

Once customers check out, they are prompted to input their customer ID and password in order to complete their purchase. Once valid information has been entered, the user is redirected to a summary screen. They are prompted to try again if their credentials are invalid.

Entry screen

Enter your customer id and password to complete the transaction:

Customer ID:	<input type="text"/>
Password:	<input type="password"/>
<input type="button" value="Submit"/> <input type="button" value="Reset"/>	

Invalid credentials

Invalid customer id. Go back to the previous page and try again.

[Back to Main Page](#)

Order Summary: *order.jsp*

Once a customer has successfully checked out, they are sent to an order summary page that informs them that the order is complete and provides further details about the reference number. There is a link provided to go back to the main page.

Your Order Summary

Product Id	Product Name	Quantity	Price	Subtotal
5	Enthusiasm	4	\$7.50	\$30.00
29	End of The Rainbow T-Shirt - XL	1	\$18.00	\$18.00
Order Total				\$48.00

Order completed. Will be shipped soon...

Your order reference number is: 6

Shipping to customer: 1, Name: Corey Bond

[Back to Main Page](#)

3. Known Issues:

- Trying to access admin page without being logged in will cause the page to not load, but there are no links to the page unless an admin user is logged in.
- Could potentially have changed admin portal to have separate pages depending on topic, but when it was long, the colour changed as you scrolled down, and that made me happy.
- If you intentionally empty out the fields when adding a product, there will be errors. Do not do this, it is unnecessary and pointless.
- Refreshing the cart after adding an item will continue to keep adding the item.
- Customers can enter anybody's user id and password at checkout – there is no validation that the logged in customer is who checks out.
- It is by no means flawless, and the code could definitely use some more commenting, but I did this by myself and I'm very, very tired. Please forgive me 😊