

GROUP 2 SOFTWARE ENGINEERING PROJECT

E-COMMERCE WEBSITE:
HUG WITH MUG COFFEE COMPANY

BACKGROUND

- Our e-commerce website is for a company named Hug With Mug.
- At Hug With Mug, we sell products such as coffee, teas, t-shirts, tote bags, and mugs.

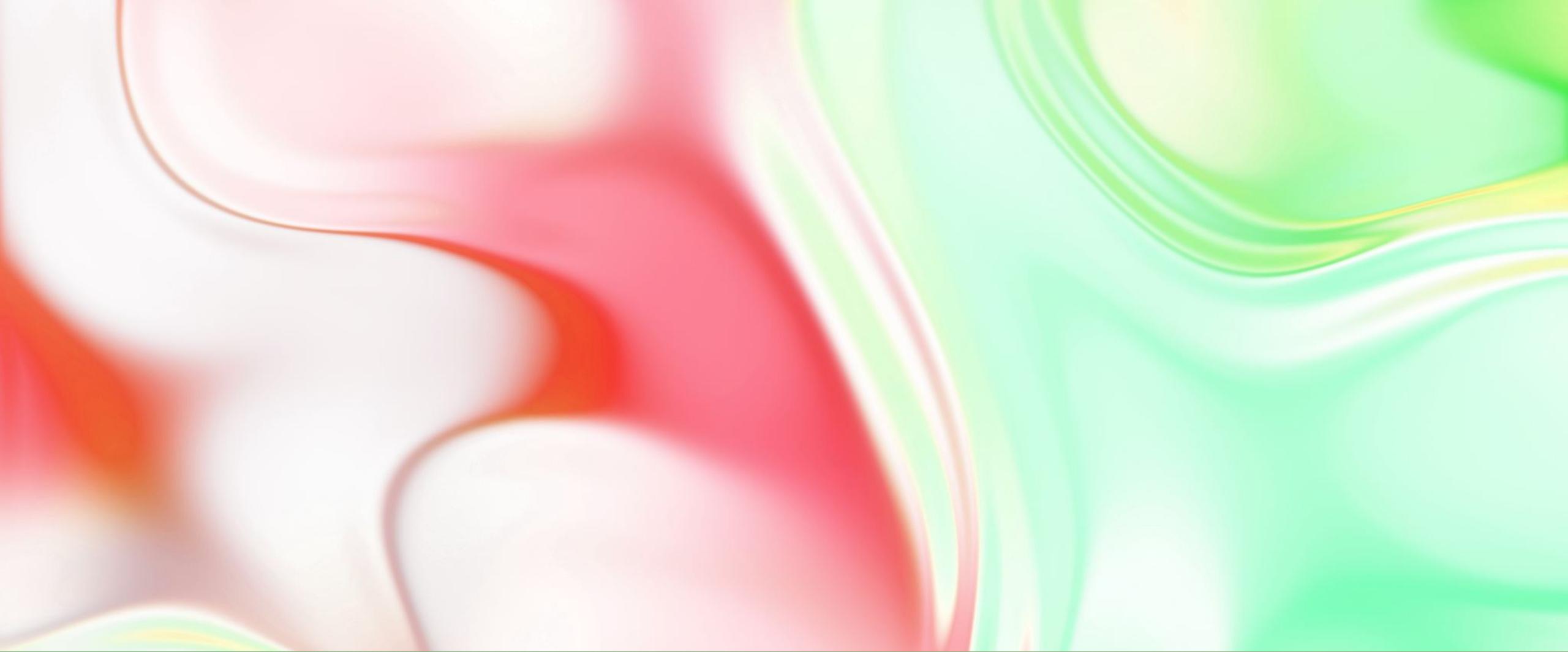


HOW IT WAS MADE:

- We used **LEMP** (**L**-Linux **E**-Nginx **M**-MySQL **P**-PHP) as our stack to develop our web application.
- We used an **Amazon EC2 Instance** to host our application on the Amazon Web Services Infrastructure.
- We developed with **PHP, SQL, HTML, CSS and JavaScript Languages**.
- We used **GitHub** as our version control software to collaborate as a group.

WORKFLOW

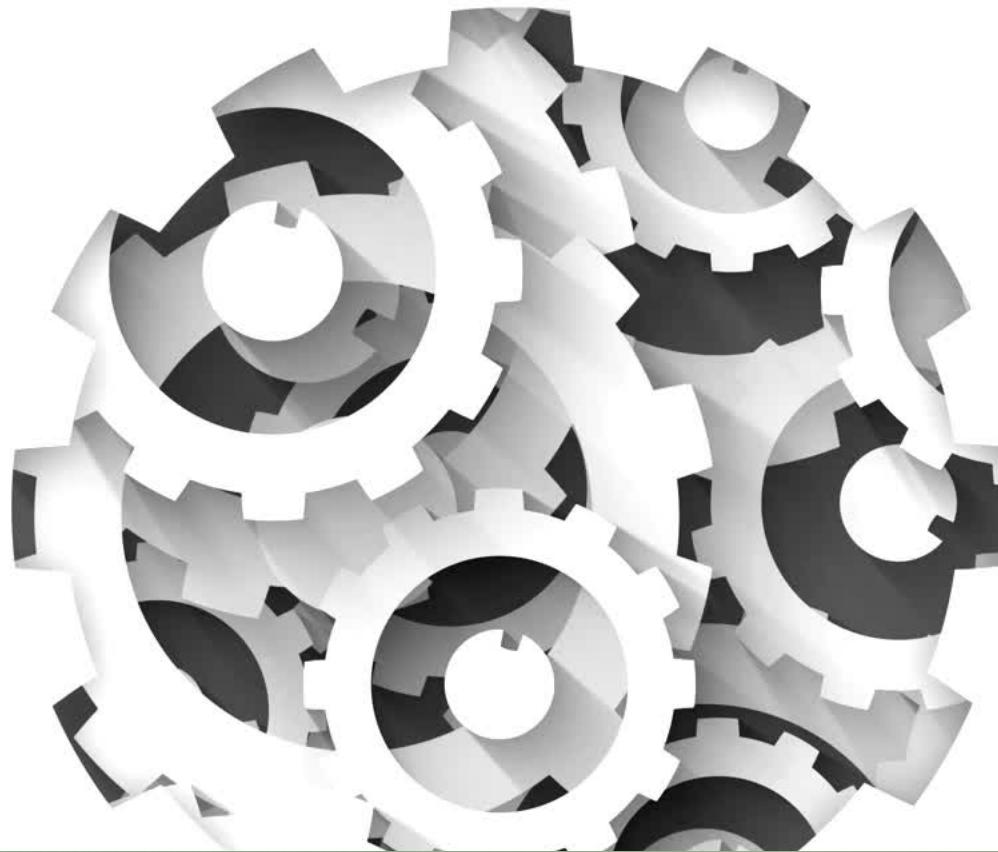
- Developed in 2 Week **Sprints**
 - Meetings once a week
 - **Sprints** were planned based on what was uncompleted in our **product backlog**
- Everyone worked from their own local environment, they pushed / pulled the project files and the database from our **GitHub repository**, then the project was publicly hosted through the **Amazon Web Service**.



UI / UX DESIGN

UI / UX DESIGN

- We used **bootstrap** and **CSS styles** in general to design the front-end our website.
 - This means that many of the style classes we used are *existing classes* offered in bootstrap.
- Many of our website elements were modified to be scalable items, such as: the slideshow images, visibility of far right nav bar items, and our product display blocks
- Having items which can scale to any size allows for our website to be responsive, meaning it can be used by a variety of screen sizes from minimum to maximum display size to ensure **usability and satisfaction**.



FUNCTIONALITY: USER EXPERIENCE

SIGNING UP FOR AN ACCOUNT

Register A New Account

Enter your full name:

Enter a Unique username:

Enter your email address:

Enter a Strong password:

Confirm Password:

Customer Mobile Number

Customer Address

 Register

- If a user would like to create a new account, they can do so by clicking the **register page**. Our website will take a *user's full name, username, email, password, phone number, and home address*.
- In our code, we cross check with our database and ensure there is not a user that already exists for the given username or email.
- If all is good to go, we will update our database with the entered information, encrypt the password for safety concerns, and inform the user that they have been registered successfully.
- If there was an error, the user will be redirected to try registering again.

customer_id	full_name	username	customer_email	customer_pass	customer_contact	customer_address
10	Kassie Garcia	hamtaro	kassiejgarcia@gmail.com	\$2y\$10\$YitACqQ5IJd2UTYgYAqv2.sdCfbF3vKL09.72v9p8St...	210210210210	san antonio
11	demo customer	demo	demo@demo.com	\$2y\$10\$RMKg94c/zXaDH5LCgzqdOO9bmP6iS/le9bC9vejaz8Y...	210102102	280 Brighton Avenue
12	frog	frog	frog@gmail.com	\$2y\$10\$mBfoOVMPgGAO3344XMsE8utkgLKTAgIhpJbEtAiKOsG...	5555555555	832 Kinwest Parkway

LOG INTO AN ACCOUNT

- A user can sign in by visiting the **sign in page**.
- In our **sign in page**, we take in a *username* and *password*. Then we cross check with our database to ensure a given user exists for that *username*, and that the *password* matches the encrypted one in the database.
- If there was an error, the user will be redirected to try logging in again.
- If all is good to go, a session is created for that user, and they will be redirected to their account page.
- Once signed in, the user can now access certain features (i.e., checkout, wishlist, account page, etc.)

Login

Are you a Hug With Mug Customer?

Sign in down below with your Hug With Mug Username and Password!

Username

Password

Log in

Are you a new customer? Register Here!

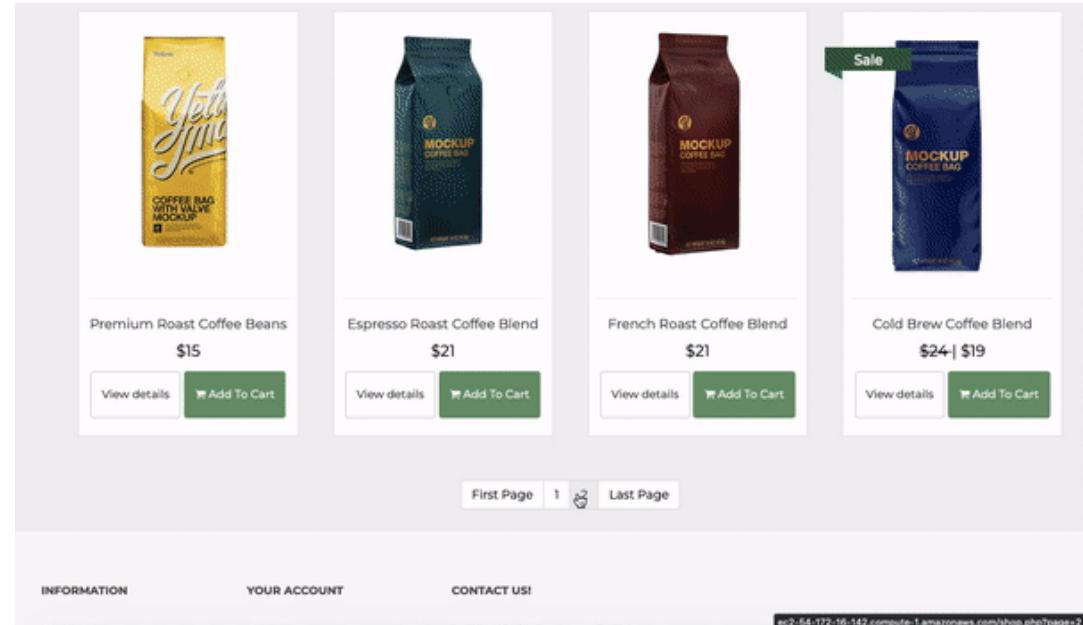
HOME PAGE

- Our homepage displays a slideshow consisting of three images showcasing the products that we sell. Below this, we show our “bestsellers”- which consists of 8 products shown in display blocks. These blocks include the *first product image, an (optional) sale banner, a view details button, and an add to cart button* which links the user to the product display page.



SHOP PAGES (SHOP ALL / BY CATEGORY)

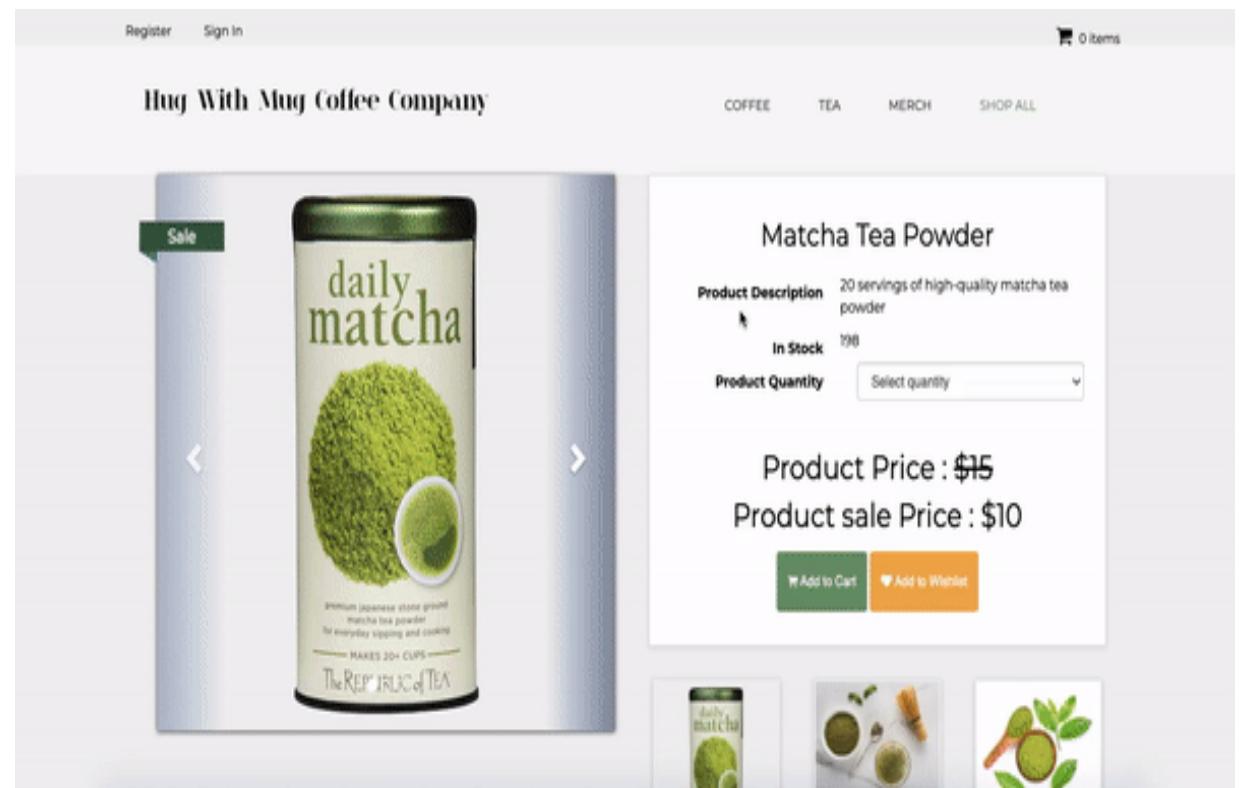
- The **shop all page** displays all the products we have stored in our database. These products are all displayed in blocks, as discussed in the last slide. The user can also switch back and forth between pages to view these products.
- In the web application header, the user can also select either the **coffee page**, **tea page**, or **merch page**. They are all simply the shop page, except the product blocks are filtered by their respective categories.



PRODUCT DISPLAY PAGE

Our **product display page** displays all the information about a single product. Depending on the product that was clicked on, we will display the corresponding *product title*, *description*, *quantity* in stock, *quantity selection*, the *product price*, the *sale price (if on sale)*, the **add to cart** button, and the **add to wish list** button.

We also display the 3 product images for the corresponding product. These 3 images rotate amongst a carousel that the user can traverse through.



ADD TO WISH LIST

- Anytime a user visits a product's display page, they can click on the “add to wish list” button.
- If the user is signed in, they can add any product to their wish list.
- Then, the user may see the products in their wish list by visiting the “**my wish list**” page. From there, they can see an *image* of the product, the *product title*, and they even have the option to *delete* the product from the list.

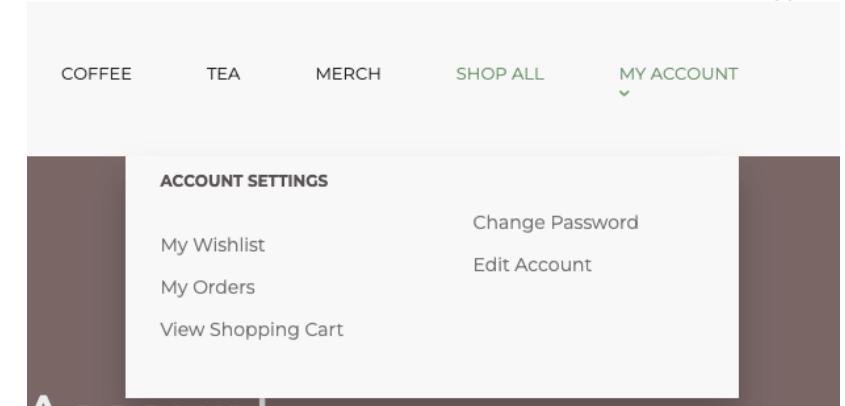
My Wishlist

Your all Wishlist Products on one place.

Wishlist No:	Wishlist Product	Delete Wishlist
1	 Coffee Lover bag	<button>Delete</button>
2	 Organic Lemon Tea	<button>Delete</button>
3	 Coffee & work mug	<button>Delete</button>
4	 Whole Bean Espresso Blend	<button>Delete</button>

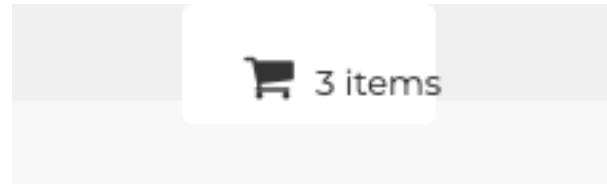
ACCOUNT SETTINGS & FEATURES

- Once a user is logged in, they will be able to access different *account features* through the “**my account**” drop down menu.
- My Wishlist Page**
 - As seen in the previous slide, the user can view the saved items in their wish list.
- My Orders Page**
 - The user can view a list of all their placed orders. This list displays a list of product purchases, their corresponding order/invoice number, the quantity purchased, and the order date.
- Change Password Page**
 - A page where the user can change their password.
- Edit Account Page**
 - A page where the user can edit their account information.

A screenshot of a website titled 'My Account'. The background features a stylized illustration of a skull and leaves. On the left, there is a sidebar with 'Account Settings' at the top, followed by 'My Orders' (which is highlighted in blue), 'Edit Account', 'Change Password', 'My WishList', and 'Logout'. On the right, there is a table titled 'My Orders' with the following data:

#	Amount	Invoice	Qty	Order Date
1	\$10	533714995	1	2022-04-03
2	\$38	533714995	2	2022-04-03
3	\$21	533714995	1	2022-04-03
4	\$15	533714995	1	2022-04-03
5	\$21	533714995	1	2022-04-03
6	\$38	599222338	2	2022-04-13

Cart Icon which displays throughout website



ADD TO CART (PART 1)

- Users have the option to add any product to their shopping **cart**. A user's **cart** will be saved if they are logged in, logged out, or come back a few hours later- as a session for the **cart** is created and tracked based on their IP address. To visit their shopping **cart**, a user can click on the cart icon on the top right of the homepage. In this **cart page**, a table will display the *products image, title, quantity selected, price, total*, and an *option to select the product for deletion*.
- There is also a **discount code** option which will apply to certain products that are enabled to have a code applied to them. A **discount code** will take off a certain amount for a single product.
 - For example, “HUGWMUG5OFF” will take 5 dollars off the “coffee lover bag”.
 - There is also an **order summary**, which displays the true calculated total (subtotal + tax + shipping (- discount)) that the user will “pay” for at checkout.

ADD TO CART (PART 2)

Shopping Cart

You currently have 3 item(s) in your cart.

Product	Quantity	Unit Price	Delete	Sub Total
 Coffee Lover bag	1	\$16.00	<input type="checkbox"/>	\$16.00
 Yellow Instant Coffee Blend	1	\$6.00	<input type="checkbox"/>	\$6.00
 Matcha Tea Powder	3	\$10.00	<input type="checkbox"/>	\$30.00
Total	\$52.00			

Cart table

Order Summary

Order Subtotal	\$52.00
Shipping and handling	\$5.00
Tax	\$4.29
Discount	-\$5.00
Total	\$61.29

Discount Code

Coupon Code : HUGWMUG5OFF

[Apply Coupon Code](#)

[Continue Shopping](#)

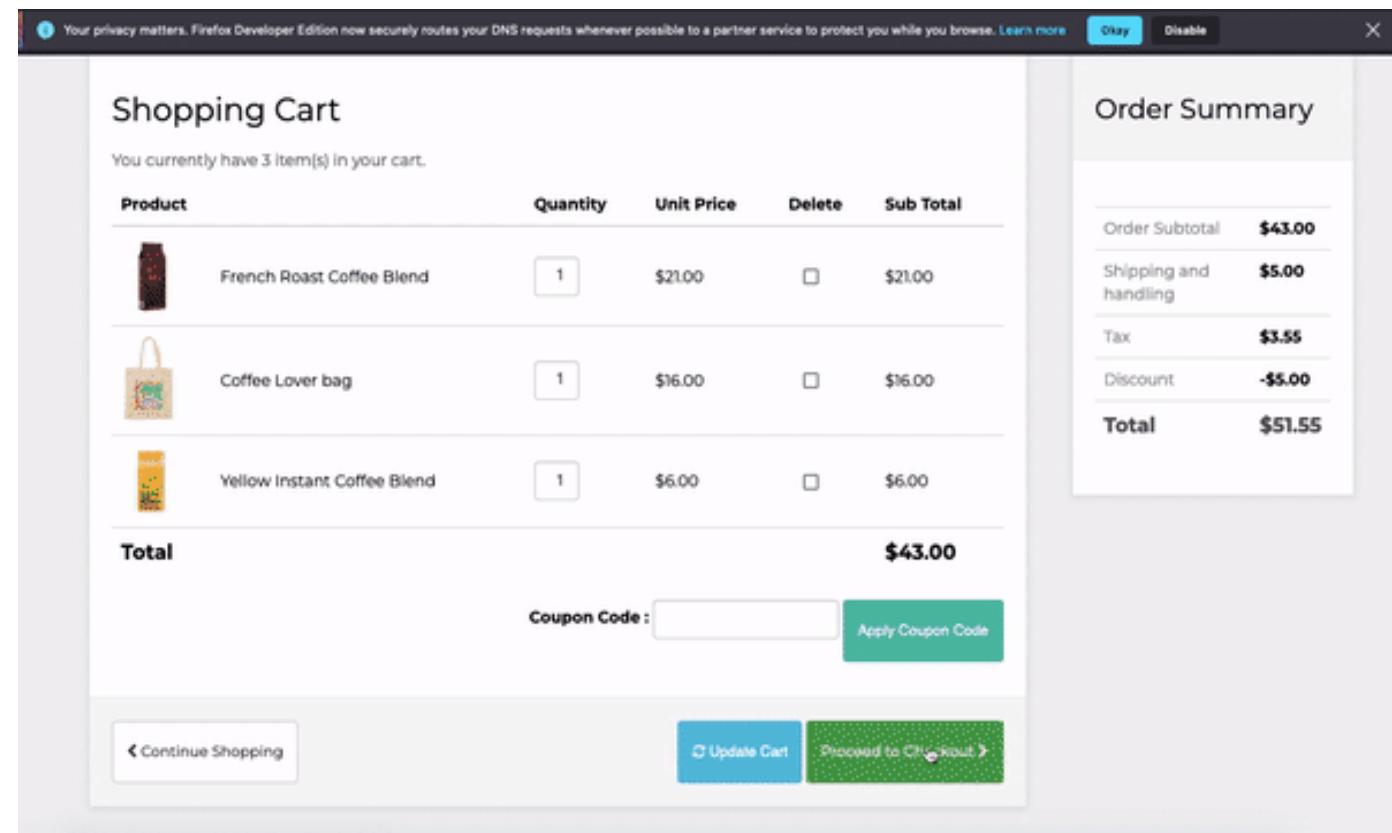
[Update Cart](#)

[Proceed to Checkout](#)

Order Summary

PLACING THE ORDER

- Once a user is signed in and have items in their cart, they will be able to “proceed to checkout”. From there, they can click to **place their order**. Once the order is placed, the database is updated with the customer’s order, and the user will be notified that their order was successfully placed. They can then visit the details of their order in their “my account” page-> my orders.



SEARCH

- The **search** engine works as a function for the user to search for a specific product or anything related to the website.
- The user can search for coffee, tea, and merchandise products.
- The user can type into the **search box** located on the home page and click the “search” button. After the “search” button is clicked it will display the search results to the user if any keywords are matched from the database. If no matches are found, then the search feature will ask the user to search again. The results that will be displayed will depend on the matching keywords.
- For example: if the user searches for coffee, then the search feature will display the results found for “coffee”, the keyword “coffee”, and a functioning link that the user can click on to be directed to the web page related to the search.

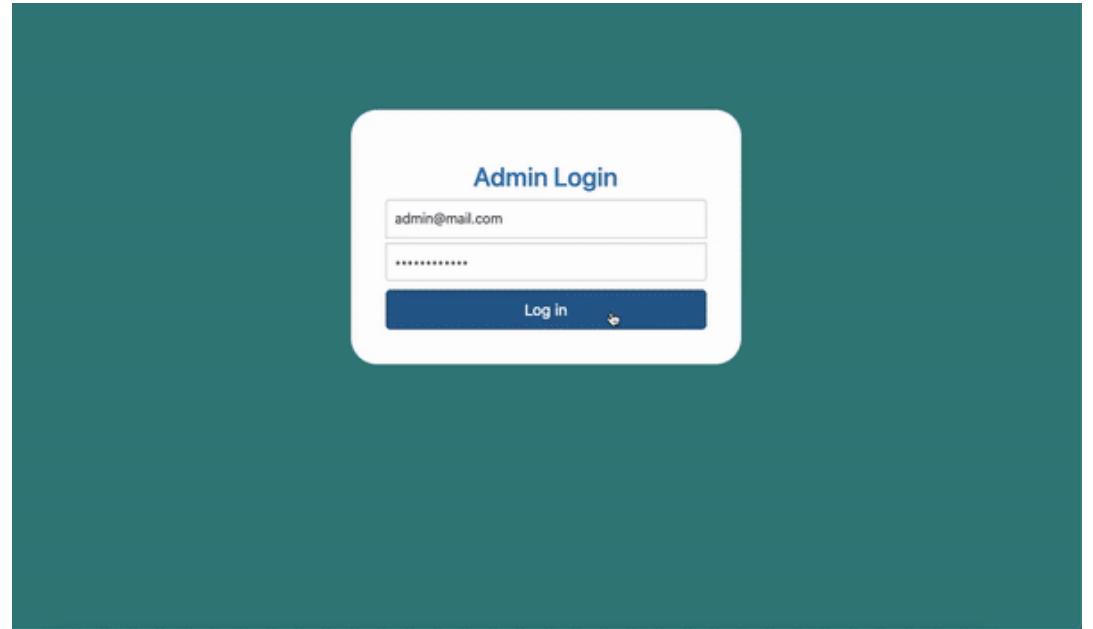




FUNCTIONALITY: ADMIN PANEL

ADMIN LOGIN

- If an admin user wants to visit the admin backend panel, they can do so by visiting http://ec2-54-172-16-142.compute-1.amazonaws.com/admin_area.
- From there, they will be prompted to log in with their admin credentials. The credentials entered are cross checked with the *admin* database table. If the credentials entered match with what is in the database, then the admin user can successfully access the admin panel. If not, the admin will be prompted to try logging in again.



ADMIN PANEL

ADMIN DASHBOARD

- This **dashboard** conveniently displays important information blocks for the admin. It displays the *# of products currently for sale, the # of customers, the # of product categories, the # of orders currently placed, the total amount of money earned, and the total number of coupon codes enabled.*
- Within each of these blocks, the admin can click to *view more details*, which will take them to their perspective pages.
- At the bottom of the dashboard, the admin can readily see the *most recent orders* placed by customers.

ADMIN SIDEBAR

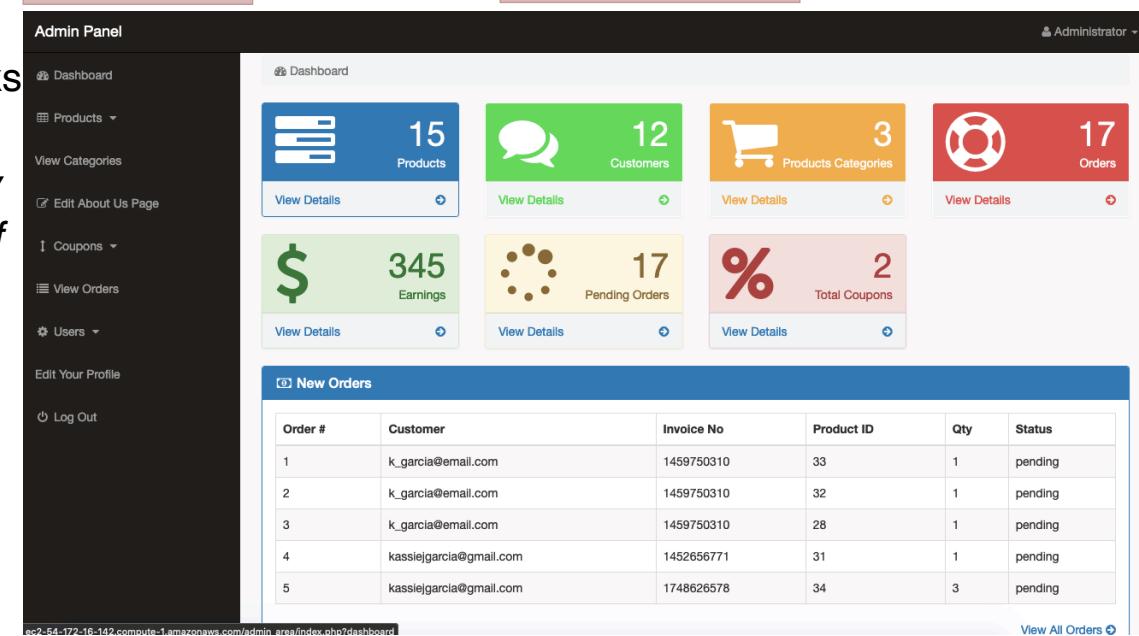
- This **sidebar** is where the admin user can access all the admin features- such as viewing/inserting/editing products for sale, viewing orders, and more!

Sidebar

Admin Panel

- Dashboard
- Products
- View Categories
- Edit About Us Page
- Coupons
- View Orders
- Users
- Edit Your Profile
- Log Out

Dashboard



INSERT PRODUCTS

From the admin panel sidebar, the user can access the **products** section. In this section, the admin user has the option to either visit the **insert products page** or the **view products page**.

- **Insert Products Page**

- To insert a **regular product**, the admin user will simply enter in all the product information necessary for its display (title, url, category, images, price, keywords, quantity, description, label)
- To insert an '**on sale**' product, the admin user will simply enter in all the information necessary, including the **product's sale price** and **product's label** ("Sale").

Inserting an “on sale” product

The screenshot shows the Admin Panel interface. On the left is a dark sidebar with white text links: Dashboard, Products (with a dropdown arrow), View Categories, Edit About Us Page, Coupons (with a dropdown arrow), View Orders, Users (with a dropdown arrow), Edit Your Profile, and Log Out. On the right is a light-colored main area titled 'Dashboard / Insert Products'. Below it is a sub-section titled 'Insert Products'. The form contains several input fields: 'Product Title' (with a placeholder 'I'), 'Product Url' (empty), 'Category' (a dropdown menu with 'Select a Category' placeholder), 'Product Image 1' (a file input field with 'Browse...' and 'No file selected.' placeholder), 'Product Image 2' (a file input field with 'Browse...' and 'No file selected.' placeholder), 'Product Image 3' (a file input field with 'Browse...' and 'No file selected.' placeholder), 'Product Price' (an empty input field), 'Product Sale Price (0 if not on sale)' (an empty input field), 'Product Keywords' (an empty input field), 'Product Quantity' (an empty input field), and 'Product Description' (an empty input field with 'Product Description' placeholder). The top right corner of the main area shows the text 'Administrator'.

VIEW & MODIFY PRODUCTS

- **View Products Page**
 - From this page, the admin user can view all the products that are currently for sale on the website. The list displays all the product information and links to either **delete the item** or to **modify the item**.
- **Modify Product Page**
 - If the user selects to “edit” a product, they will go to the **modify product page**. From this page, the form will pre-fill with all the product information currently stored in the DB. Once changes are made, the admin user can click to update the product and can immediately see the changes reflected in the **view products page & website**.

Admin Panel

- Dashboard
- Products +
 - View Categories
 - Edit About Us Page
- Coupons +
- View Orders
- Users +
 - Edit Your Profile
 - Log Out

Viewing and editing an existing product

1	Coffee & work mug		\$ 16	1	Merch	2022-04-04 00:51:40	100	Delete	Edit			
2	Coffee T-shirt		\$ 90	0	Merch	2022-04-04 00:51:57	50	Delete	Edit			
3	Organic Lemon Tea		\$ 9	0	Tea	2022-04-04 00:52:11	89	Delete	Edit			
4	Coffee Heart T-shirt		\$ 15	0	Merch	2022-04-04 00:53:50	300	Delete	Edit			
5	PotHead T-shirt		\$ 15	1	Merch	2022-04-04 00:54:07	209	Delete	Edit			
6	Whole Bean Espresso Blend		\$ 23	0	Coffee	2022-04-04 00:54:23	150	Delete	Edit			
7	Organic Green Tea		\$ 9	0	Tea	2022-04-04 00:54:35	299	Delete	Edit			
8	Cold Brew Coffee Blend		\$ 24	2	Coffee	2022-04-24 07:44:38	106	Delete	Edit			
9	French Roast Coffee Blend		\$ 21	1	Coffee	2022-04-04 00:55:14	109	Delete	Edit			

VIEW CATEGORIES

- Admin user can go to the **view categories page** which simply displays the categories in use, and they have the option to delete these categories as well.



The screenshot shows a web-based application interface for managing categories. At the top left, there is a breadcrumb navigation bar with the text "Dashboard / View Categories". Below this, a header bar contains the title "View Categories". The main content area is a table with three columns: "#", "Category Name", and "Delete". The table has four rows, each representing a category. The categories listed are Coffee (id 1), Tea (id 2), and Merch (id 3). Each row includes a "Delete" button with a trash icon to its left.

#	Category Name	Delete
1	Coffee	Delete
2	Tea	Delete
3	Merch	Delete

EDIT ABOUT US PAGE

- The admin user can visit the **edit about us page**, which will contain a form which will prefill with the “about us” text stored in the DB. From here, the user can make changes to this description and update the page.

Dashboard / Edit About Us Page

Edit About Us Page

About Us Heading : About Us - Our Story for Hug With Mug Co.

About Us Short Description :

Coffee. For some people, it's more than a drink. It's a way to connect. It's a way to share moments. And, ok, sometimes it's just a way to wake up and get work done.

About Us Description :

Hug With Mug Co. is the collective vision of a small group of Computer Science students at the University of Texas at San Antonio for the Software Engineering course.
<p>Ever since we joined together as a group, we decided coffee was the perfect thing to sell. It is a daily part of all our lives and routines, so when it came to picking a theme- coffee was a no-brainer!</p><p>So say hello to Hug With Mug Coffee Co. - I hope you like it.</p><p>This is Group 2's Project for Software Engineering CS-3773-002 Spring 2022</p>

Update About Us Page

INSERT COUPON CODES

- From the admin panel sidebar, the user can access the **coupons** section. In this section, the admin user has the option to either visit the **insert coupon page** or the **view coupons page**.
- Insert Coupon / Discount Code Page**
 - In this page, the admin user can create a new coupon code for the website. This page will take in the *coupon title*, the *amount that should be taken off*, the *code*, the *usage limit* to the code, and a selection box to *select which product this code should apply to*. If there are no errors, the coupon will be inserted into the DB.

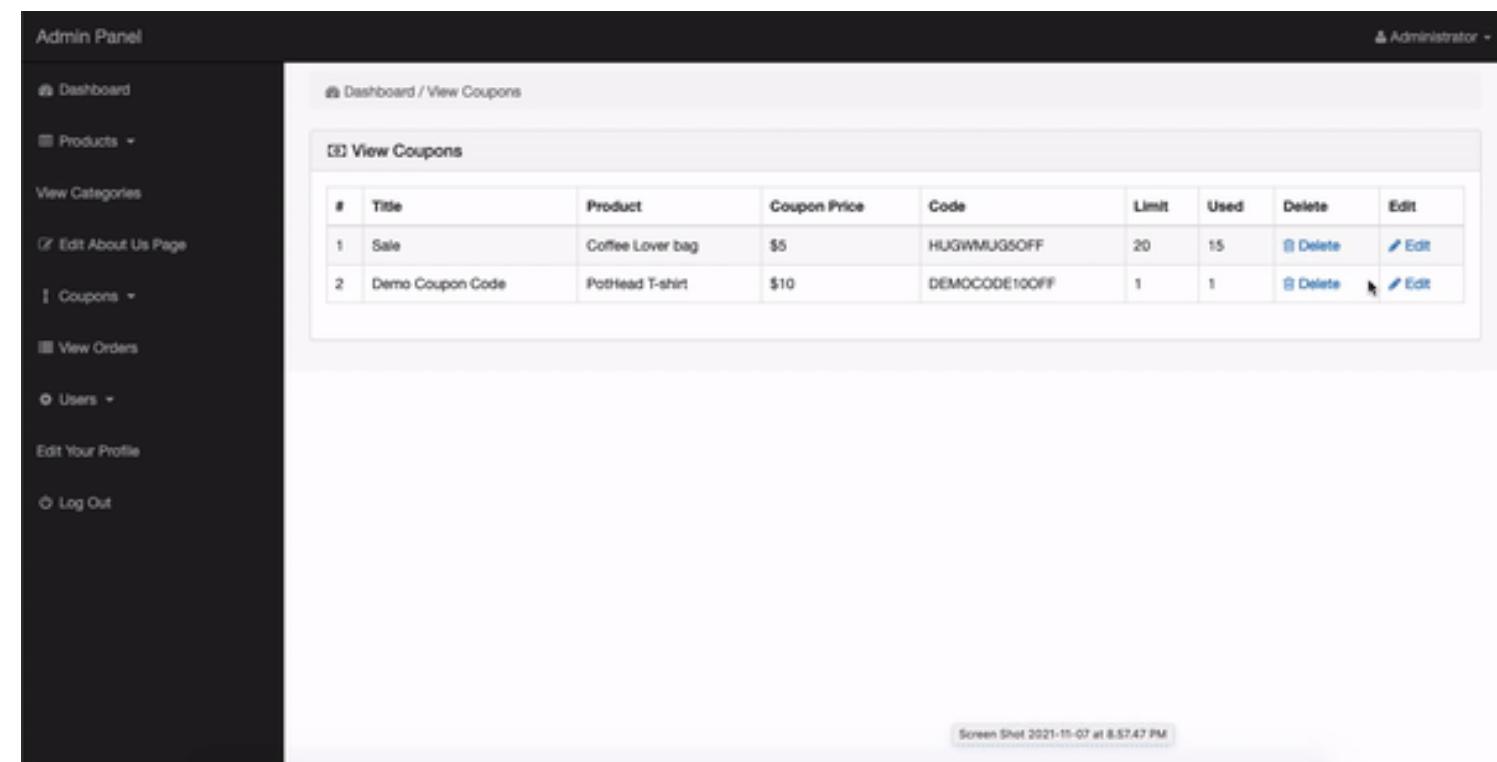
The screenshot shows the 'Insert Coupon' page within a web-based admin interface. The top navigation bar includes links for 'Dashboard' and 'Insert Coupon'. The main form is titled 'Insert Coupon' and contains the following fields:

Field	Value
Coupon Title	demo coupon code
Coupon Price Off	10
Coupon Code	DEMOCODE10OFF
Coupon Limit	1
Select which product this coupon applies to	PotHead T-shirt

At the bottom right of the form is a large blue button labeled 'Insert Coupon'.

VIEW & MODIFY COUPON CODES

- From the **view coupons page**, the admin user can *view all the coupon codes available for customers to use*. The list displays the coupon title, product it applies to, price off, code, limit, how many times it has been used, an option to delete the coupon code, and an option to **edit the coupon code**.
- Through the view coupon page, the admin user can select to “**edit**” a coupon. This **edit coupon page** will pre-fill with all the coupon information currently stored about the coupon selected. Once changes are made, the admin user can click to update the coupon and can immediately see changes reflected in the coupon list..



The screenshot shows the Admin Panel interface. On the left is a dark sidebar with navigation links: Dashboard, Products, View Categories, Edit About Us Page, Coupons, View Orders, Users, and Log Out. The main content area is titled "View Coupons" and displays a table of existing coupons. The table columns are: #, Title, Product, Coupon Price, Code, Limit, Used, Delete, and Edit. Two rows of data are shown:

#	Title	Product	Coupon Price	Code	Limit	Used	Delete	Edit
1	Sale	Coffee Lover bag	\$5	HUGWMUG5OFF	20	15		
2	Demo Coupon Code	PotHead T-shirt	\$10	DEMOCODE10OFF	1	1		

At the bottom right of the main content area, there is a small watermark-like text: "Screen Shot 2021-11-07 at 8.57.47 PM".

VIEW & SORT ORDERS

- From the admin panel sidebar, the user can access the **view orders page**. In this page, the admin user can see a list of all the *currently placed orders from all customers*. This list displays the *order's customer*, the *invoice / order number*, the *product ordered*, the *quantity of the product ordered*, the *date the order was placed*, the *total amount spent on the product ordered*, the *order status*, and an option to **delete** the order from the database.
- Order Sorting Functionality:** In this order page, the admin user can *sort* the orders either by *the order size* (dollar amount), *the order date*, or by *the customer in alphabetical order*. All the user has to do is click on the sort buttons at the bottom of the list and they can sort how they please.

View Orders										
#	Customer ID	Customer Email	Invoice	Product	Qty	Order Date	Total Amount	Status	Action	
1	10	kassiejgarcia@gmail.com	533714995	Coffee & work mug	1	2022-04-03 05:29:49	\$10	Pending		
2	10	kassiejgarcia@gmail.com	533714995	Coffee Lover bag	1	2022-04-03 05:29:49	\$21	Pending		
3	11	demo@demo.com	1222349279	Espresso Roast Coffee Blend	2	2022-04-04 07:47:05	\$42	Pending		
4	11	demo@demo.com	1222349279	Yellow Instant Coffee Blend	1	2022-04-04 07:47:05	\$6	Pending		
5	14	toad@email.com	1582428953	PotHead T-shirt	1	2022-04-05 03:23:40	\$5	Pending		
6	14	toad@email.com	1582428953	Coffee Lover bag	2	2022-04-05 03:23:40	\$42	Pending		
7	10	kassiejgarcia@gmail.com	1748626578	Coffee Lover bag	1	2022-04-24 05:07:34	\$16	Pending		
8	10	kassiejgarcia@gmail.com	1748626578	Yellow Instant Coffee Blend	1	2022-04-24 05:07:34	\$6	Pending		
9	10	kassiejgarcia@gmail.com	1748626578	Matcha Tea Powder	3	2022-04-24 05:07:34	\$30	Pending		
10	10	kassiejgarcia@gmail.com	1452656771	Breakfast Coffee Blend	1	2022-04-24 05:49:44	\$12	Pending		
11	21	k_garcia@email.com	1459750310	French Roast Coffee Blend	1	2022-04-24 05:52:33	\$21	Pending		
12	21	k_garcia@email.com	1459750310	Coffee Lover bag	1	2022-04-24 05:52:33	\$16	Pending		
13	21	k_garcia@email.com	1459750310	Yellow Instant Coffee Blend	1	2022-04-24 05:52:33	\$6	Pending		

[Sort by Order Size \\$\\$](#) [Sort by Customer](#) [Sort by Date](#)

/admin_area/index.php?view_orders#

INSERT A USER

- From the admin panel sidebar, the user can access the **users** section. In this section, the admin user has the option to either visit the **insert users page** or the **view users page**.
- Insert Users Page:** In this page, the admin user can insert a new user for the website. The admin user must enter a name, username, email, password, address, and contact info correctly. If the information entered is correct, the database will be updated with a brand-new user inserted and the admin user will be notified of its success.

The screenshot shows the Admin Panel interface. On the left, there is a dark sidebar with white text containing links: Dashboard, Products, View Categories, Edit About Us Page, Coupons, View Orders, Users (with a dropdown menu for Edit Your Profile and Log Out), and Log Out. The main content area has a light gray background and a title "Dashboard / Insert User". Below the title is a sub-section titled "Insert User". The form contains the following fields:

- User Full Name: DEMO USER 101
- Username: demo-user
- User Email: demodemo@mail.com
- User Password: (redacted)
- User Address: 210 st
- User Contact: 2108908990

A blue button at the bottom right of the form is labeled "Insert User".

VIEW & MODIFY EXISTING USERS

- In the **view users page**, the admin user can view a list of customer users. This list displays a name, username, email, address, and phone number. There are also 2 options to either **delete** the user from the database or to **edit the user** via **edit user page**.
- **Edit a User Page:** When the admin selects to “edit” a user, they will go to the **edit user** page. From this page, the form will pre-fill with all the user information currently stored in the database. Once a change is made, the admin user can click to update the user and will be notified if that update was successful.

The screenshot shows the Admin Panel interface. On the left is a sidebar with the following menu items: Admin Panel, Dashboard, Products, View Categories, Edit About Us Page, Coupons, View Orders, Users (selected), Edit Your Profile, and Log Out. The main content area has a title "Dashboard / Edit Profile" and a sub-section "Edit Profile". It contains five input fields with placeholder text: "User Full Name" (misfit), "Username" (frog), "User Email" (frog@gmail.com), "User Address" (832 Kinwest Parkway), and "User Contact" (55555555). A blue "Update User" button is at the bottom right.

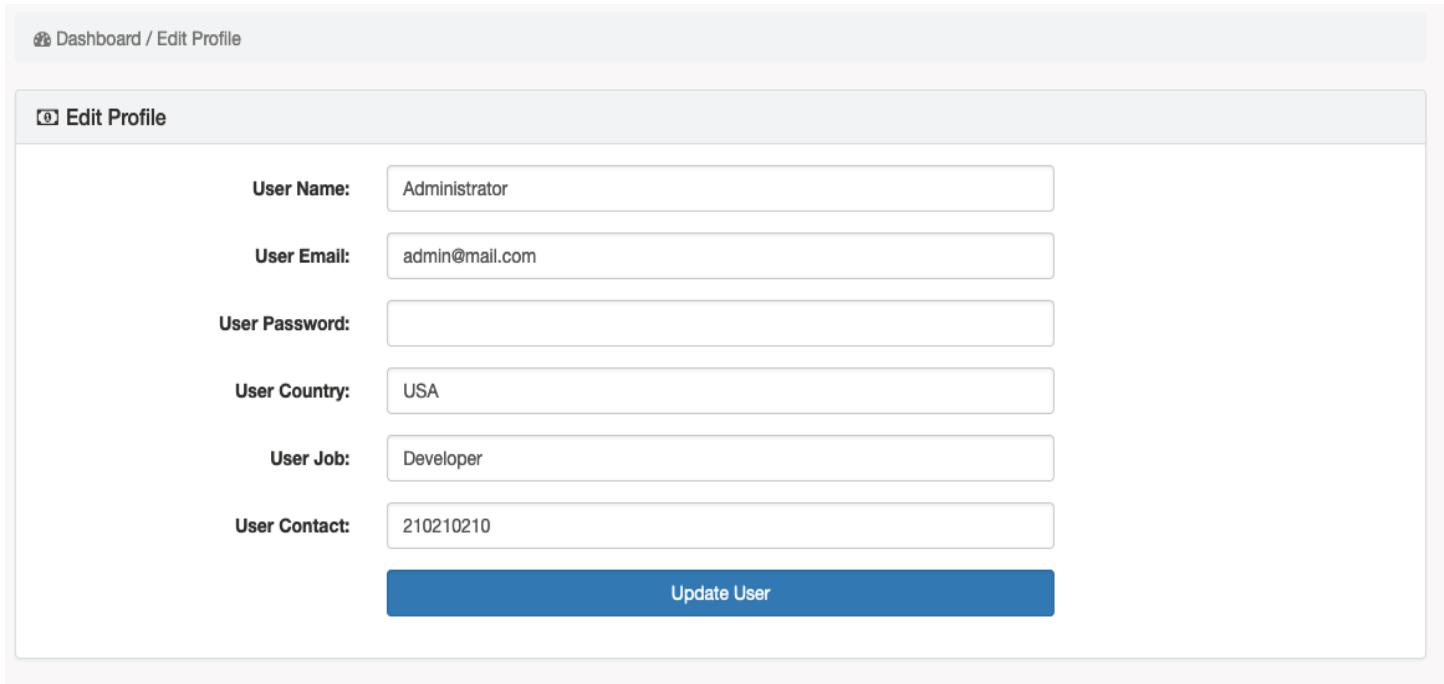
EDIT ADMIN PROFILE

Dashboard / Edit Profile

Edit Profile

User Name:	Administrator
User Email:	admin@mail.com
User Password:	
User Country:	USA
User Job:	Developer
User Contact:	210210210

Update User



- From the admin panel sidebar, the user can access the **edit your profile** page. In this page, the admin user can *edit their own profile* and update their changes to the database. The admin user will be notified if their changes were successful.

THE END

THANK YOU FOR WATCHING OUR
PRESENTATION!

