Final Project Title:
MallMart
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Description:

MallMart is an online store that sells several categories of products ranging from camping items to bathroom items and many more. The website is made to be easy to navigate through for users to have a soothing experience browsing through the site. Here is a breakdown of each page of the website:

1. **Home Page**:
   a. On the top of the *Home* page, there is a promotion section displayed as a carousel where a few items are showcased with details about what sale each of those items has.
   b. Towards the bottom, there is a "sale of the day" section that displays one specific item every time the page is reloaded from the database as the best sale of the day and the user has the ability to add that item to their cart, if wanted.
2. **Products Page:**
   a. Under the navigation bar of the webpage, there is a section of categories that can be chosen from to narrow down all of the products that are sold in the store, taken from the table *items* from the database.
   b. There is also a search feature on this page that allows the user to search for a specific product by its name and find the corresponding item and its details.
   c. A user is able to add an item to their cart by first clicking on the item name that will open up a corresponding Modal that displays more information about that particular item, which is also pulled from the *items* table.
   d. On the bottom of the Modal, there is an "Add to Cart" button that allows the user to add that item to their cart, and this increments the blue label on the top right corner of the webpage that shows the number of items in the users cart.
   e. We used the **fetch()** call to be able to pull the corresponding information of a product being clicked on in the modal from our local API, which is the table *items* in the database.
3. **Account Page:**
   a. The *account* page gives the user the choice to either log in with an existing account, if already registered, or create a new account.
   b. The *create a new account* button opens up a separate page which contains a form. Everytime an account is created (form is submitted), the user's registered information is added to the table called *user_info* in the database.
   c. Once a user is logged in, they have the ability to edit every field of their account's information (besides the username) and their records will be updated in the database.

d. The second *fetch()* call was used in the create account page to use the external API of Unsplash where a user is able to keep refreshing the image option and a new image appears from that API until a user decides on an image to use as their profile picture.

e. The user also has the ability to log out of their account on this page.

4. **Cart Page:**
   a. The cart page displays all of the items that were added to the cart and calculates all of the totals (shipping, subtotal, tax, and total) values.
   b. The user is able to select a shipping method and this will change the totals corresponding to the amount.
   c. Once a user is ready to checkout, they can click on the *checkout* button. This button will open up another Modal that allows the user to confirm their cart by displaying the totals again. If the user decides to proceed with the purchase, they can click the checkout button, otherwise there is a back button that will take them back to the cart.
      i. In order to successfully checkout, the user **must** be logged into their account. If the user attempts to checkout without logging in, they will be redirected to the account page where they can now log in and continue with the checkout.
   d. Finally, the last feature of the cart page is the *empty cart* button. This button will clear the cart's storage and reset it to empty.

This is the complete breakdown of the website by pages.

Task Distribution:

- When our team initially started this project, we thought we would split into teams of two where two of us would work front-end and the other two would work back-end. However, we realized that it would be more efficient if we were to do the back-end work together and leave the front-end part and detailing to the end since functionality is important for this project.

- We met up five times and worked on each page of the website together. We would be in a meeting and give each other feedback as well as work through completing the functions and routes of the pages together. Towards the end of the project, we realized we can then split into two teams.
  - Warren and Luis worked on the details of the account page where the form of creating an account was implemented and added those created accounts to the table *user_info* in the database.
  - Jennah and Yukio worked on the product page, to display the corresponding Modal of each product which showed its extra details and the ability to further add that item to the cart.

- We felt that splitting into two during this time was very beneficial because it felt like we got two things done at once.

- With the rest of the project, we continued to work like this and whenever someone had an issue with part of the code, other team members would join in and help figure it out.
- We were able to work together as a team and get the website to function and look as great as we were able to.

Changes from original design:

- In terms of changes from our original design, there wasn't too much. We originally designed the layout of what we want our website to look like through the website *Figma*. This helped with actually visualizing what our web page would look like and encouraged us to think of how we would actually implement it through code.
- The only major thing that was changed from the original design was the way that users were able to add items to their cart. We initially were going to make each item's image clickable and open up the cart page directly from there, but decided that adding it to the cart first and then having the user decide when to view their cart would be a better idea in terms of user friendliness.
- Other than that, we made minimal changes like the way the category list looked like and more of the physical appearance of the website.

Database Schema

```
SET NAMES utf8;
SET time_zone = '+00:00';
SET foreign_key_checks = 0;
SET sql_mode = 'NO_AUTO_VALUE_ON_ZERO';

SET NAMES utf8mb4;

DROP TABLE IF EXISTS `user_info`;
CREATE TABLE `user_info` (
`userId` int NOT NULL AUTO_INCREMENT,
`fullName` varchar(100) NOT NULL,
`username` varchar(50) NOT NULL,
`password` varchar(72) NOT NULL,
`bday` varchar(50) NOT NULL,
`email` varchar(100) NOT NULL,
`phoneNumber` varchar(50) NOT NULL,
`address` varchar(200) NOT NULL,
`imgUrl` varChar(200) NOT NULL,
```

```sql
PRIMARY KEY (`userId`));


DROP TABLE IF EXISTS `items`;
CREATE TABLE `items` (
`itemId` int NOT NULL AUTO_INCREMENT,
`name` varchar(100) NOT NULL,
`price` int NOT NULL,
`category` varchar(50) NOT NULL,
`imgName` varchar(50) NOT NULL,
`description` varchar(100) NOT NULL,
`availability` varchar(50) NOT NULL,
PRIMARY KEY (`itemId`));

INSERT INTO `items` (`itemId`, `name`, `price`, `category`, `imgName`, `description`, `availability`) VALUES
(1, 'Tent', '25', 'camping', 'tent.png', 'Waterproof,Spacious, Lightweight Portable Backpacking Tent for Outdoor Camping/Hiking.', 'in stock'),
(2, 'Sleeping Bag', '15', 'camping', 'sleepingBag.png', 'Ultralight Backpacking Sleeping Bag for Hiking Cold Weather & Warm - Lightweight Compact Camping Gear Equipment Summer & Winter.', 'in stock'),
(3, 'Canteen', '20', 'camping', 'canteen.png', 'Stainless Steel Water Bottle with Nested Camping Cup and Lid for Bug Out Bag, Bushcraft Gear, Metal Canteen with a Wide Mouth Water Bottle and Mess Kit.', 'in stock'),
(4, 'Backpack', '23', 'camping', 'backpack.png', 'Hiking Backpack, Waterproof Camping Essentials Bag with Rain Cover, 45+5 Liter Lightweight Backpacking Back Pack.', 'in stock'),
(5, 'Pan', '10', 'kitchen', 'pan.png', 'Hard Anodized Aluminum with Anti-Warp Base, Stainless Steel Handle - Classic Nonstick Fry Skillet for Gas/Electric/Induction Cooktops-Dishwasher & Oven-Safe-Black/9.5 IN.', 'in stock'),
(6, 'Shampoo', '3', 'bathroom', 'shampoo.png', 'Moisturizing Shampoo for Dry Hair Ultimate Moisture Silicone-Free, Moisturizing ProteinFusion with Elastin Protein and Green Caviar 33.8 oz.', 'in stock'),
(7, 'Couch', '80', 'bedroom', 'bedr.png', 'Modern Fabric Loveseat Sofa with 2 USB Charging Ports, Love Seats Furniture Suitable for Small Spaces, Living Room, Office, Soft Couch Easy to Install.', 'in stock'),
(8, 'Lamp', '13', 'bedroom', 'lamp.png', 'Nightstand Lamp with 3-Prong AC Outlet for Bedroom Living Room Office.', 'in stock'),
(9, 'Knife Set', '20', 'kitchen', 'kset.png', ' Knife set, 23 Pcs Kitchen Knife Set with Block & Sharpener Rod, High Carbon Stainless Steel Chef knife set, Ultra Sharp, Full-Tang Design.', 'in stock'),
(10, 'Fishing Pole', '50', 'fishing', 'fishingPole.png', 'Slingshot Spincast Reel and Fishing Rod Combo, 5-Foot 6-Inch 2-Piece Fishing Pole, Size 30 Reel, Right-Hand Retrieve, Pre-Spooled with 10-Pound Zebco Line.', 'in stock'),
```

(11,'Fishing Bait', '2', 'fishing', 'bait.png', 'Fishing Lures Shallow Deep Diving Swimbait Crankbait Fishing Wobble Multi Jointed Hard Baits for Bass Trout Freshwater and Saltwater.', 'in stock'),
(12, 'Towel Set', '12', 'bathroom', 'towels.png', 'American Soft Linen, 6 Piece Towel Set, 2 Bath Towels 2 Hand Towels 2 Washcloths, Super Soft and Absorbent, 100% Turkish Cotton Towels for Bathroom and Kitchen Shower Towel, Bright White.', 'in stock');

```
DROP TABLE IF EXISTS `purchase_history`;
CREATE TABLE `purchase_history` (
`transactionId` int NOT NULL AUTO_INCREMENT,
`shipping` varchar(200),
`subtotal` varchar(200),
`tax` varchar(200),
`total` varchar(200),
`userId` int NOT NULL,
`purchase_date` varchar(200),
        PRIMARY KEY (transactionId),
    FOREIGN KEY (userId) REFERENCES user_info(userId)
);
```

Screenshots of Finished Project

1. Home Page
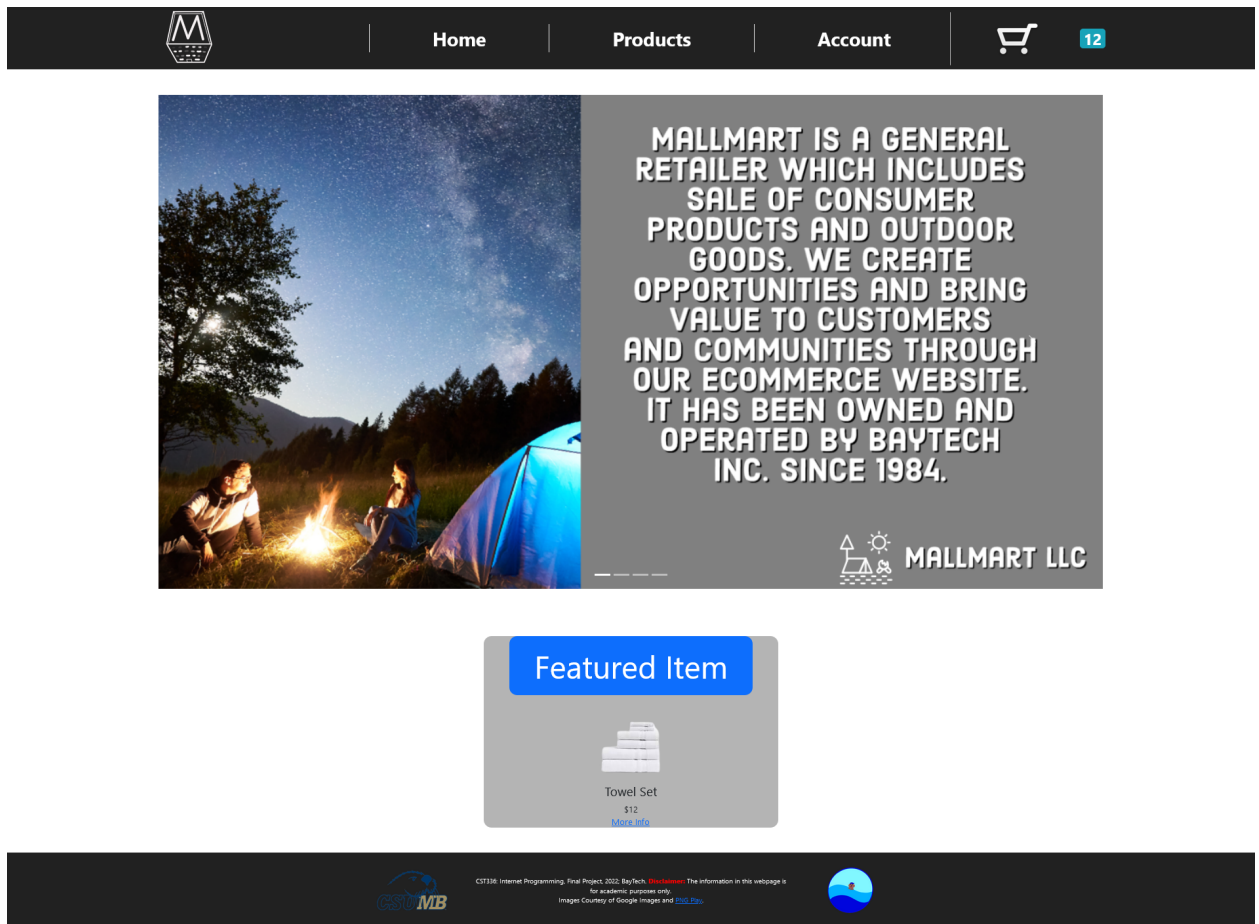
2. Products Page
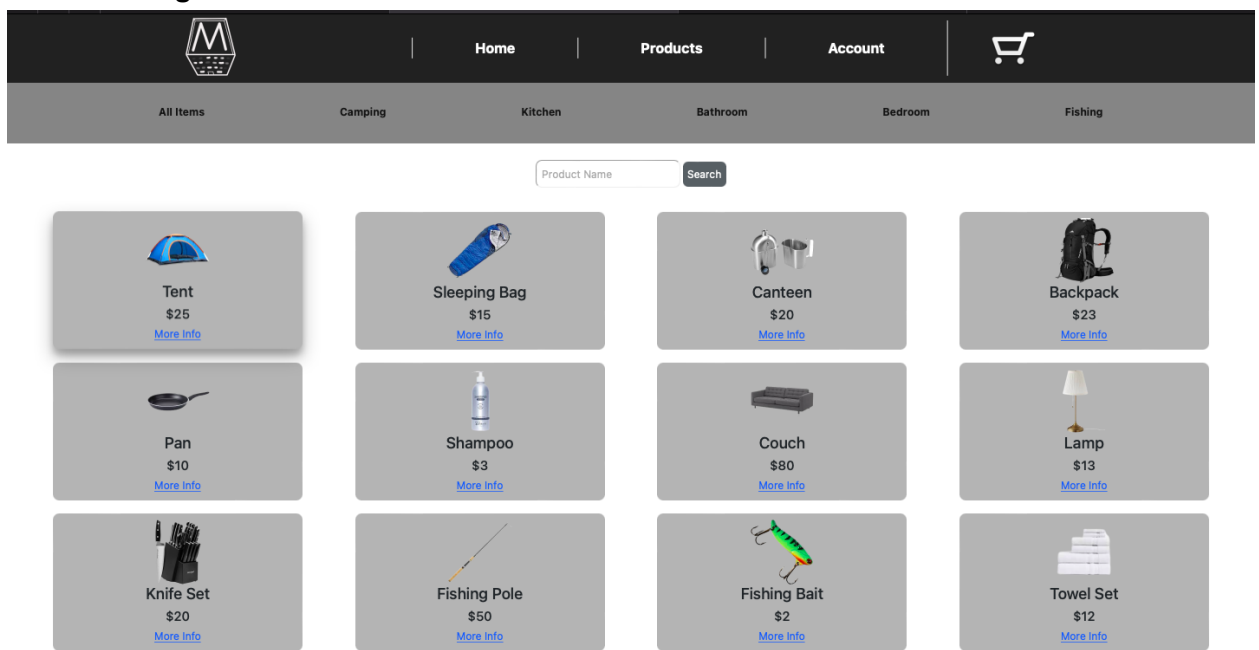
3. Product Modal
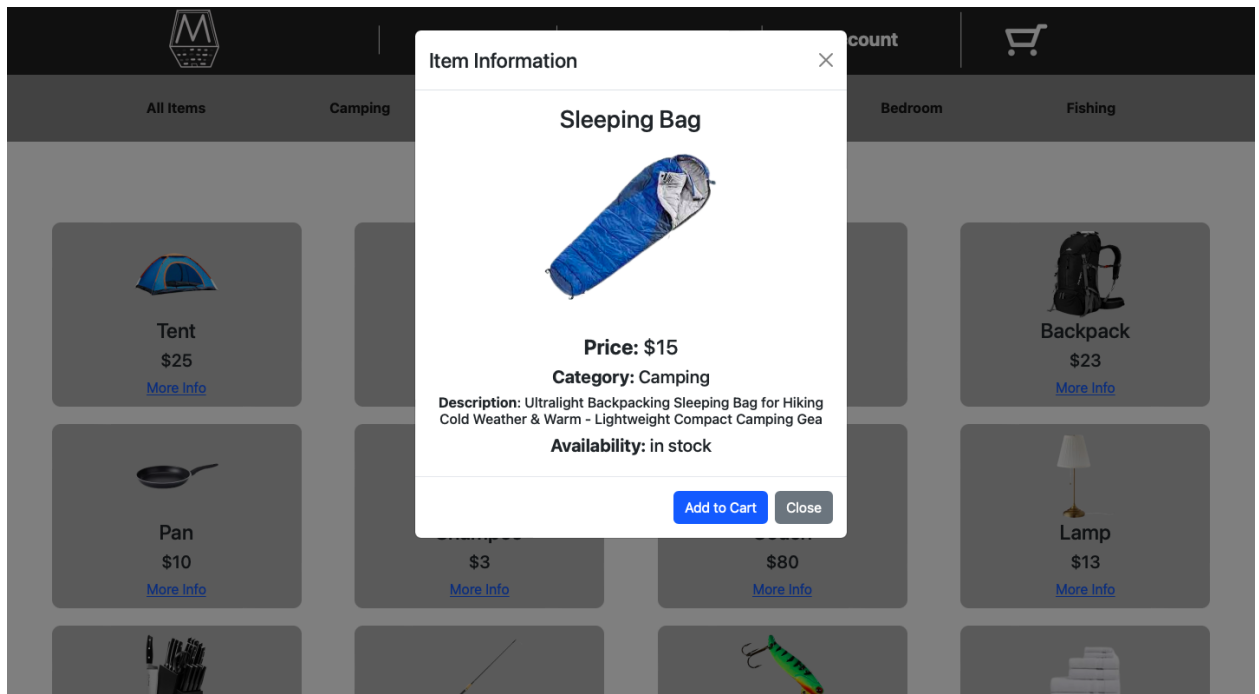
4. Account Page (login)

Username

Password

Login

Create Account

5. Account Page while logged in:
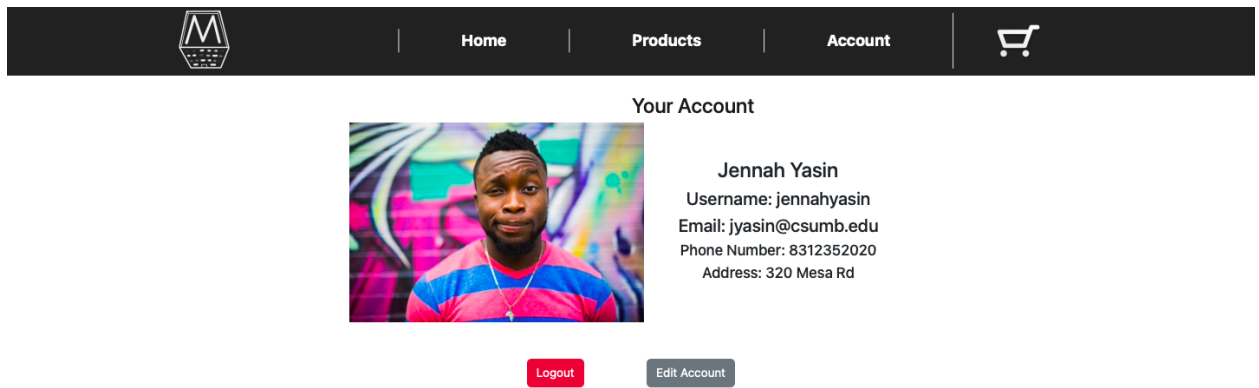
6. Edit Account:

7. Create an Account Page

Create Account

Get New Image

Name: | First and Last name
Username: | Username
Password: | Password
Re-type Password: | Enter password again
Birth-Date: | 08/12/2022
Email: | Email
Phone Number: | XXXXXXXXXX
Address: | Address

Create User

8. Cart/Checkout Page

Shopping Cart

	Canteen	QTY: 1	Item Price: 20	Total Price: $20.00
	Backpack	QTY: 1	Item Price: 23	Total Price: $23.00
	Tent	QTY: 1	Item Price: 25	Total Price: $25.00

Clear Cart   Shipping: Regular Delivery: $7.00
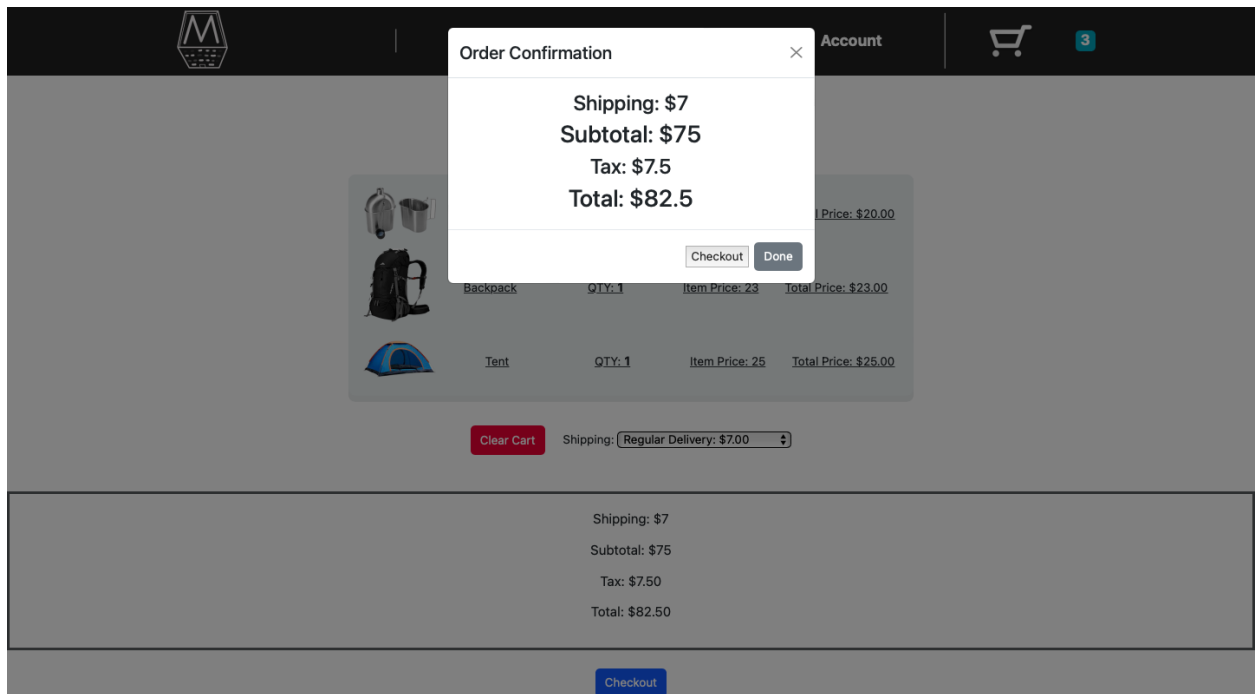
Shipping: $7

Subtotal: $75

Tax: $7.50

Total: $82.50

Checkout

9. Checkout Modal

10. Purchased Page(receipt)