Homework 1 - Instant Market Online Store

Group 13

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URL to the store: https://mason.gmu.edu/~nchukka/

Design Metrics:

We have used the idea of Appropriation, in login_page.html. There we have a Log in button, generally login buttons are used to submit forms and send the request. However here we have modified the login button to reset, since we don't have any databases. When the "Seller" clicks on that button it is redirected to "seller_page.html" without any form data. We have used the idea of Bricolage in combining various Bootstrap components (e.g., navigation bar, carousel, panels) and custom styles to create a cohesive and visually appealing interface. Different elements such as images, panels, buttons are combined to form a unique design that serves our purpose of an online store.

For our market store that involves both buyers and sellers, the design approach that best aligns with this is a combination of Human-Centered Design and Activity-Centered Design . As per the idea of Human Centered Design we first analyzed the problem of setting up a table for Sellers. We tried multiple designs where the "Seller" can add and update the product inline. However, it was not meeting up to our needs, so we finally decided to come up with a table and use 2 buttons for adding and updating the product. As per idea of Activity-Centered Design, we have used also tried to focus on more on what the 2 types of users can do.

Interface Metrics:

index.html page:

In any website, a navigation bar is a crucial element as it helps in navigating seamlessly between different sections of the website, we have designed the navigation bar using bootstrap because it makes the design of the website responsive, meaning it can adapt to the devices of different sizes and thus, making it easier to go through the website. We have included navigation items such as Home, Shop, Sign Up and Your Account. The navigation item 'Shop' is a dropdown menu, which provides categorization, this is an affordance, which helps buyers in identifying the options available to them.

Followed by a carousel, which showcases a set of products which are on sale, this enhances the visual appeal and acts as an affordance, which helps users through different products. In the next section, we have included the products which are on sale, each product has a description, and a

button to buy it, this design aligns with the concept of affordance and signifier. The buy now button acts as a signifier, indicating the action that users can take to buy the product.

all_products.html and on_sale.html pages:

this page shows all the products available to sell to buyers, gap of execution is less since the interface is simple and informative, any naïve user can easily understand the interface as there are no distractions to the user, we have provided a search bar so that the user can easily find any products that they are looking for without any hassle, the search bar acts as an affordance and the placeholder in the search bar acts as significance. Even the images of products are neatly placed within a panel so that they never go out of order and the gap of evaluation is very minimal. When a buyer is interested in a product, they can easily buy the product with the help of buy now button, which acts as an affordance.

seller_page.html page:

On the seller page, we have kept the style and design to the minimum so that the end user (who is a seller) doesn't have any problem navigating through the products, and there by keeping the gap of execution to as minimal as possible. Buttons such as 'add_new_product' and 'update_product' acts as the affordance to the seller and there by conveying the meaning. When a seller clicks on any of these two buttons, respective modal window is shown which has the necessary input fields and they acts as an affordance and the placeholders of these fields acts as a signifier.

signup2.html page:

We have included all the necessary details needed when a buyer or a seller needs to be registered on the website, when this page is loaded, it asks the user to select the type of user they are and based on the selection made by the user, appropriate form is displayed to the end user. All the mandatory fields are indicated with a red asterisk, this acts as a signifier, all the other fields act affordances and the placeholders acts as signifiers. The idea of displaying only the specific field to specific users aligns with the concept of gulf of execution.
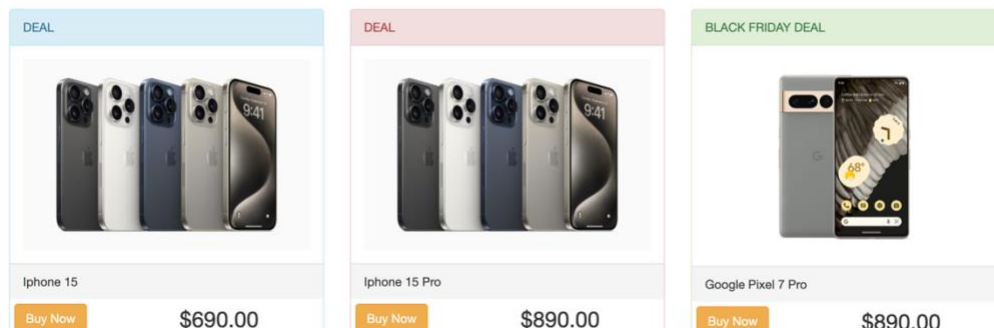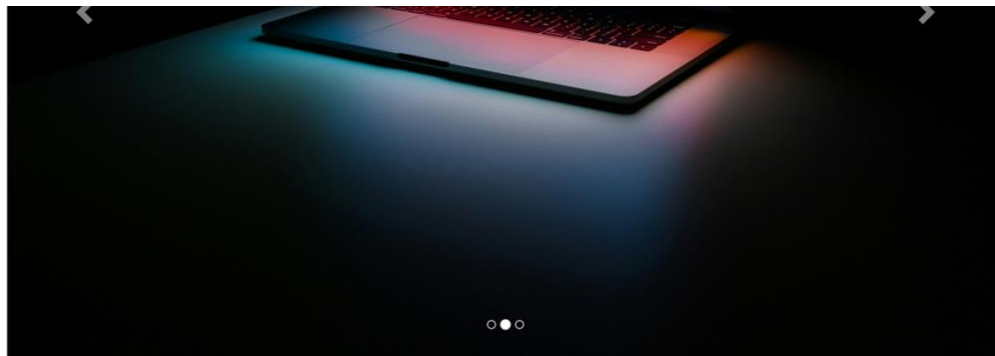
Implementation Document

Our design of the store is simple and straight forward, since buyers and sellers are the users of the system, we have created separate views or webpages for them. A buyer can browse through the available list of products and checks the products and it's price. A seller can add the product in the list accordingly. Our main page is index.html.

➢ Index.html

It has a navbar, carousel and items which are added row wise.

1) Our navigation bar includes links to the home page, Shop page with dropdown options for "All Products" and "On Sale", and options for Sign Up and Your Account.
2) It has a Bootstrap carousel which is used to display images of different products, allowing users to navigate through them.
3) Each Item is shown within a Bootstrap panel, showing an image of the product, its name, and a "Buy Now" button.
4) The "Buy Now" button has an onclick attribute that triggers a JavaScript function addtocart() when clicked, passing the ID of the corresponding product div.
5) When you click on Buy Now, we see that the product is removed from the list.

DEAL

Iphone 15
Buy Now $690.00

DEAL

Iphone 15 Pro
Buy Now $890.00

BLACK FRIDAY DEAL

Google Pixel 7 Pro
Buy Now $890.00

➢ All products (all_products.html)

1) This page is for buyers, shows all the available products.
2) The navigation bar includes links to the home page, Shop page with dropdown options, and options for Sign Up and Your Account.
3) We have a search option where you can search for specific products, along with their prices.
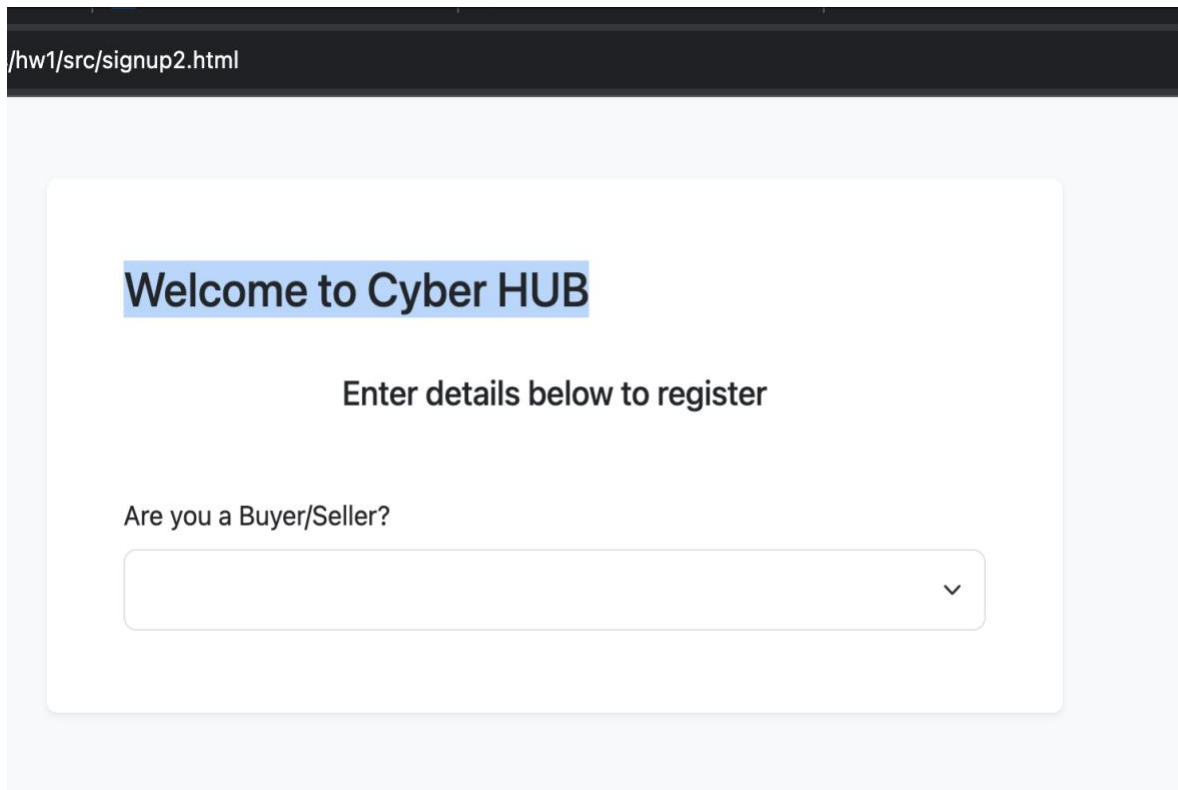4) After you get the specific product, the buyer can click on Buy now, so that I would be removed from All Products
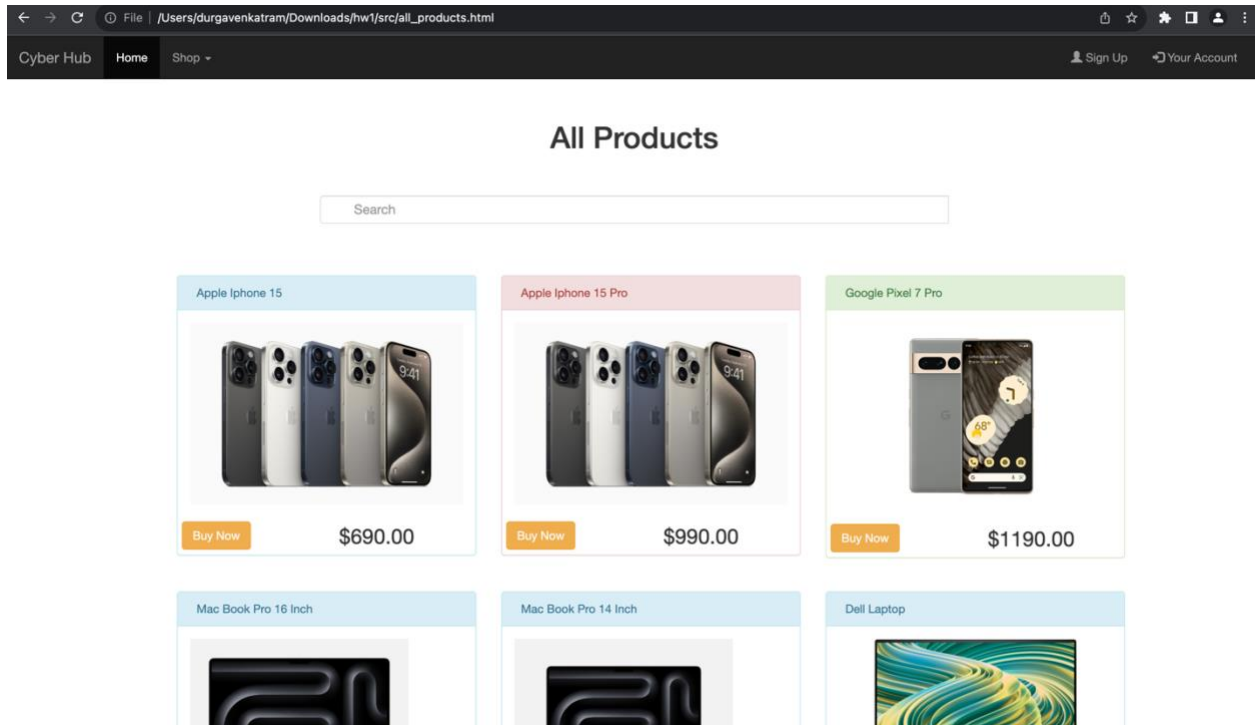
➢ On Sale Products(buyer_page.html)

1) This page shows all the current deals in the Market.
2) You have a search bar where you can search with Mobile Name/Laptop name.
3) You can click on the Buy now to purchase, so that the product is removed from the List.
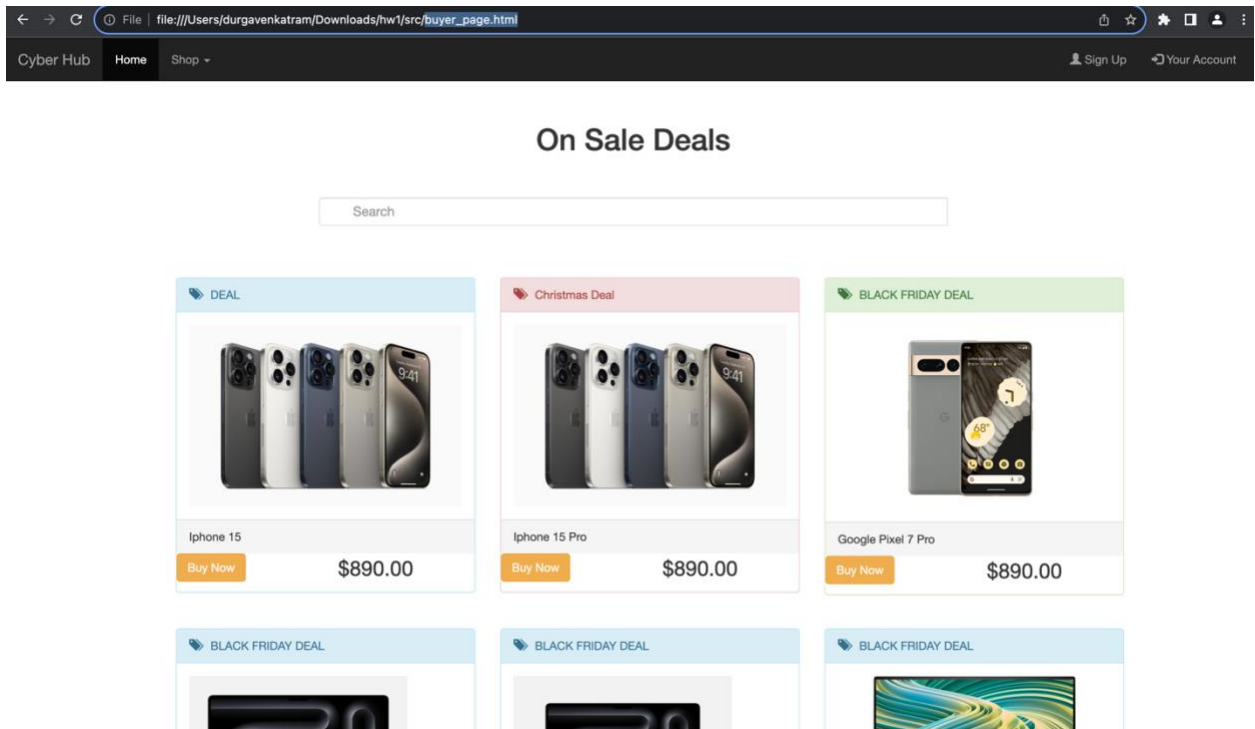
➤ Signup Page(signup2.html)

1) Here we have a drop down to select if you are buyer or seller.

2) After you select one of options a registration form is displayed for buyer and seller accordingly.
3) This registration page that provides a user-friendly interface for individuals to sign up either as buyers or sellers, with distinct registration forms to each user type.

➢ Login Page(login_page.html)

1) This page has 2 options for user to login a) Seller; b) Buyer.
2) You can also see 2 buttons to create an account, which would redirect you to the signup page, and the other is forgot password.
3) If you login as Seller, you will be redirect to a new page called Seller page.

➢ Seller Page(seller_page.html)

1) In seller page, a table is displayed with columns for "Id", "Name", "Company", and "Price". Initially, it contains sample product data, but it can be dynamically updated.
2) Below the table, there are 2 buttons for adding a new product and updating an existing product. These buttons trigger modal dialogs for adding and updating product information.
3) Modal dialogs are included for inserting and updating product information. They contain input fields for product name, company name, and price. The "Add Product" modal also includes a button for saving the product, while the "Update Product" modal includes a button for saving changes.
4) When you click on "Add Product", you will see a modal, where you can add all the details and click on "Save Product.". Then you can see the data in the table.

5) When you click on update product you first need to enter Id , click on "Get Product Details ", then you will see details of the product.

Update Product

✕

| Enter the id | 2 |
| | Get Product Details |

| Product Name | Google Pixel 8 pro |

| Company Name | Google |

| Price | 799.0 $ |

Close   Save changes

Price

899.0 $

799.0 $

799.0 $

899.0 $

Add New Product   Update Product

6) Then you can change any product detail, you can see that it will be reflected in the table.

References:

1. https://www.w3schools.com/bootstrap/
2. https://getbootstrap.com/