#### **E COMM FINAL PROJECT**

## Step-by-Step Lab Manual: Amazon-Like Cart Page Implementation

#### **Objective**

The objective of this lab is to create an interactive Amazon-like cart page using HTML, CSS, and JavaScript. This includes:

- Displaying products.
- Adding and removing products to/from the cart.
- Viewing the cart with dynamic updates.

## **Prerequisites**

Before beginning this lab, ensure you have:

- 1. A code editor (e.g., VSCode, Sublime Text).
- 2. A basic understanding of HTML, CSS, and JavaScript.
- 3. A modern web browser for testing.

#### **Steps**

#### **Step 1: Create the Base HTML Structure**

- 1. Open your code editor and create a new file named cart.html.
- 2. Add the following HTML boilerplate:

### **Step 2: Add the Header Section**

- 1. Inside the <body> tag, add a header section for the logo, search bar, and cart button.
- 2. Use the following code:

#### Step 3: Style the Header Using CSS

- 1. Add the <style> tag inside the <head> section.
- 2. Define the following CSS rules for the header:

```
.header {
    background-color: #232f3e;
    color: white;
    padding: 15px 30px;
    display: flex;
    justify-content: space-between;
    align-items: center;
}
.header .logo {
    font-size: 24px;
    font-weight: bold;
    color: #ff9900;
    cursor: pointer;
}
```

# **Step 4: Add the Product Container**

- 1. Below the header, add a product container to display products.
- 2. Use the following code:

## **Step 5: Style the Product Section**

1. Add the following CSS rules for the product section:

```
.product-container {
   display: flex;
   justify-content: center;
   margin-top: 20px;
   flex-wrap: wrap;
.product {
   background-color: white;
   margin: 15px;
   padding: 20px;
   border: 1px solid #ddd;
   width: 200px;
   text-align: center;
   border-radius: 8px;
   box-shadow: 0 2px 8px rgba(0, 0, 0, 0.1);
.product img {
   width: 100%;
   height: 150px;
   object-fit: cover;
   border-radius: 8px;
.product button {
   background-color: #ff9900;
   border: none;
   color: white;
   padding: 10px;
   cursor: pointer;
   margin-top: 10px;
   border-radius: 5px;
```

## Step 6: Add the Cart Section

- 1. Below the product container, add a cart section to display items added to the cart.
- 2. Use the following code:

3. Add the following CSS for the cart:

```
.cart {
    margin-top: 30px;
    display: none;
    justify-content: center;
    flex-wrap: wrap;
    padding: 20px;
    max-height: 400px;
    overflow-y: auto;
    border-top: 2px solid #ddd;
}
```

## Step 7: Add JavaScript for Interactivity

Step 7.1: Initialize the Cart Data

- 1. Add a <script> tag inside the <body> tag.
- 2. Initialize an empty object to store cart items:

```
let cartItems = {};
```

Step 7.2: Add Function to Add Items to Cart

Write a function to add items to the cart:

```
function addToCart(product, imageUrl) {
    if (cartItems[product]) {
        cartItems[product].quantity++;
    } else {
        cartItems[product] = { name: product, quantity: 1, imageUrl: imageUrl };
    }
    updateCart();
    updateCartButton();
}
```

Step 7.3: Add Function to Remove Items from Cart

Create a function to remove items from the cart:

```
function removeFromCart(product) {
   if (cartItems[product]) {
      cartItems[product].quantity--;

   if (cartItems[product].quantity === 0) {
      delete cartItems[product];
    }
   }
   updateCart();
   updateCartButton();
}
```

Step 7.4: Update the Cart Display

Write a function to update the cart section dynamically:

```
function updateCart() {
   const cart = document.getElementById('cart');
   cart.innerHTML = ;
   for (const product in cartItems) {
       const cartItem = cartItems[product];
       const cartItemDiv = document.createElement('div');
       cartItemDiv.classList.add('cart-item');
       cartItemDiv.id = `cart-item-${cartItem.name}`;
       cartItemDiv.innerHTML =
           <h3>${cartItem.name}</h3>
           <img src="${cartItem.imageUrl}" alt="${cartItem.name}" style="width: 100px; height: 100px;</pre>
           object-fit: cover; border-radius: 8px; margin: 10px auto;">
           Quantity: ${cartItem.quantity}
           <button onclick="removeFromCart('${cartItem.name}')">Remove</button>
       cart.appendChild(cartItemDiv);
   if (Object.keys(cartItems).length === 0) {
       cart.style.display = 'none';
       cart.style.display = 'flex';
```

Step 7.5: Update the Cart Button

Add a function to update the cart button to display the total number of items:

Create a function to show or hide the cart:

```
function toggleCart() {
   const cart = document.getElementById('cart');
   if (cart.style.display === 'none' || cart.style.display === '') {
      cart.style.display = 'flex';
   } else {
      cart.style.display = 'none';
   }
}
```