

E-commerce Project - Coding Documentation

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Introduction

This documentation explains the technical details of our e-commerce project. We developed the project using **HTML, CSS, JavaScript, and Bootstrap** for front-end development. The following sections cover the main components, challenges faced, and the solutions implemented in the project.

Project Structure

The project consists of several key files and directories:

- **index.html**: The homepage of the e-commerce site.
- **products.html**: Displays the available products.
- **product-details.html**: Displays the details of a selected product.
- **cart.html**: Shows the items added to the shopping cart.
- **scripts.js**: Contains all JavaScript logic.
- **styles.css**: Contains all custom styling.
- **Bootstrap**: We used Bootstrap for responsive design.

HTML and CSS

We used **HTML** to build the basic structure of the pages, including the product listings, product details, and shopping cart. **CSS** was used to style these components and ensure the design was consistent throughout the site.

Challenges and Solutions: Navbar Responsiveness

One of the challenges we faced was making the **navbar responsive**. We wanted to ensure it would look good on all devices, from desktop to mobile.

Solution:

We used **Bootstrap's navbar component**, which allowed us to create a responsive navbar that automatically collapses into a hamburger menu on smaller screens. We customized the appearance using CSS to ensure it aligned with the overall website design.

```
```html
```

```

}
/*? -----Responsive middle Nav-----*/
@media (max-width: 725px) {
 header .container-nav .middle-nav {
 display: flex;
 flex-direction: column;
 justify-content: space-evenly;
 align-items: center;
 border-bottom: 5px solid var(--main-color);
 }
 header .container-nav .middle-nav a p {
 border: none;
 }
}
/*?-----gz added part to fix mobile-----*/
@media (max-width: 870px) {
 .logo {
 margin-bottom: 7px;
 padding-top: 10px;
 }
}
/*Mobile view*/
@media (max-width: 337px) {
 header .container-nav .middle-nav .search button {
 position: absolute;
 top: 0;
 right: 0;
 outline: none;
 border: none;
 width: 50px;
 background-color: #1c1c50;
 height: 100%;
 color: #ffffff;
 font-size: 18px;
 font-weight: 600;
 cursor: pointer;
 border-top-right-radius: 10px;
 border-bottom-right-radius: 10px;
 }
 header .container-nav .middle-nav .search {

```

```

border-top-right-radius: 10px;
border-bottom-right-radius: 10px;
}
header .container-nav .middle-nav .search {
width: 200px;
height: 30px;
/* border: 2px solid rgb(8, 195, 252); */
position: relative;
border-radius: 10px;
}
header .container-nav .middle-nav .search input {
padding: 0px 20px 0px 20px;
border-radius: 10px;
outline: none;
border: 1px solid #1c1c50;
width: 200px;
height: 30px;
}
}
/*-----End of Responsive-----*/

/*-----End Nav Final part-----*/
header .container-nav .end-nav {
display: flex;
justify-content: space-between;
align-items: center;
background-color: #1c1c50;
}
header .container-nav .end-nav ul {
display: flex;
gap: 70px;
margin: auto;
justify-content: space-between;
align-items: center;
}
header .container-nav .end-nav ul li a {
color: white;
text-transform: uppercase;
font-size: 15px;
font-weight: 500;

```

```

}
/*?-----Responsive End Nav-----*/
@media (max-width: 889px) /*for tablets*/ {
 header .end-nav {
 padding: 0px 0;
 /* background: white !important; */
 }
 header .end-nav ul {
 display: flex;
 padding-top: 50px;
 flex-direction: column;
 justify-content: center;
 align-items: center;
 position: fixed;
 top: 0;
 left: -420px;
 bottom: 0px;
 width: 400px;
 border-right: 2px solid #989898;
 background-color: #989898;
 background-color: #1c1c50;

 gap: 20px;
 transition: 0.3s ease-in-out;
 text-align: center;
 overflow-y: scroll;
 }
 header .end-nav ul::-webkit-scrollbar {
 width: 5px;
 }
 header .end-nav ul::-webkit-scrollbar-thumb {
 background-color: #989898;
 border-radius: 10px;
 }
 header .end-nav ul::-webkit-scrollbar-track {
 border-radius: 10px;
 background-color: #232323;
 }
 header .end-nav ul .logo_nav {
 width: 200px;

```

```

}

header .end-nav ul .btn_close_menu {
 position: absolute;
 top: 20px;
 right: 20px;
 font-size: 25px;
 color: ■ rgb(255, 255, 255);
 display: block;
 cursor: pointer;
}
header .end-nav ul.active {
 left: 0;
}
header .end-nav ul .bg-overlay {
 display: block;
 position: fixed;
 top: 0;
 right: -100%;
 height: 100%;
 background-color: □ #0000005b;
 width: calc(100vw - 400px);
 transition: 0.3s ease-in-out;
}
header .end-nav ul.active .bg-overlay {
 right: 0%;
}

header .middle-nav .icons #box-menu-icon {
 color: ■ rgb(255, 255, 255);
 padding: 10px;
 border: 1px solid;
 border-radius: 10px;
 background-color: □ rgb(14, 54, 99);
 color: ■ white;
 cursor: pointer;
 margin: 0 5px;
 display: block;
}
header .container-nav .middle-nav .icons #box-menu:hover {

```

```

border: 1px solid;
border-radius: 10px;
background-color: #007bff;
color: white;
cursor: pointer;
margin: 0 5px;
display: block;
}
header .container-nav .middle-nav .icons #box-menu:hover {
background-color: #007bff;
color: white;
cursor: pointer;
transform: scale(1.2);
transition: 0.3s ease-in-out;
}
header .end-nav #login_icon_nav_bar,
header .end-nav #sign_up_icon_nav_bar {
display: block;
color: white;
margin: 5px;
padding: 5px;
}
header .end-nav #login_icon,
header .end-nav #sign_up_icon {
display: none;
}
header .container-nav .middle-nav .icons {
display: flex;
gap: 10px;
margin: 10px;
flex-wrap: wrap;
justify-content: center;
align-items: center;
}

@media (max-width: 400px) {
header .end-nav ul {
width: 100%;
}
}

```

JavaScript was essential for handling the interactivity of the website. Below are some of the key functions we implemented.

### Add to Cart Functionality

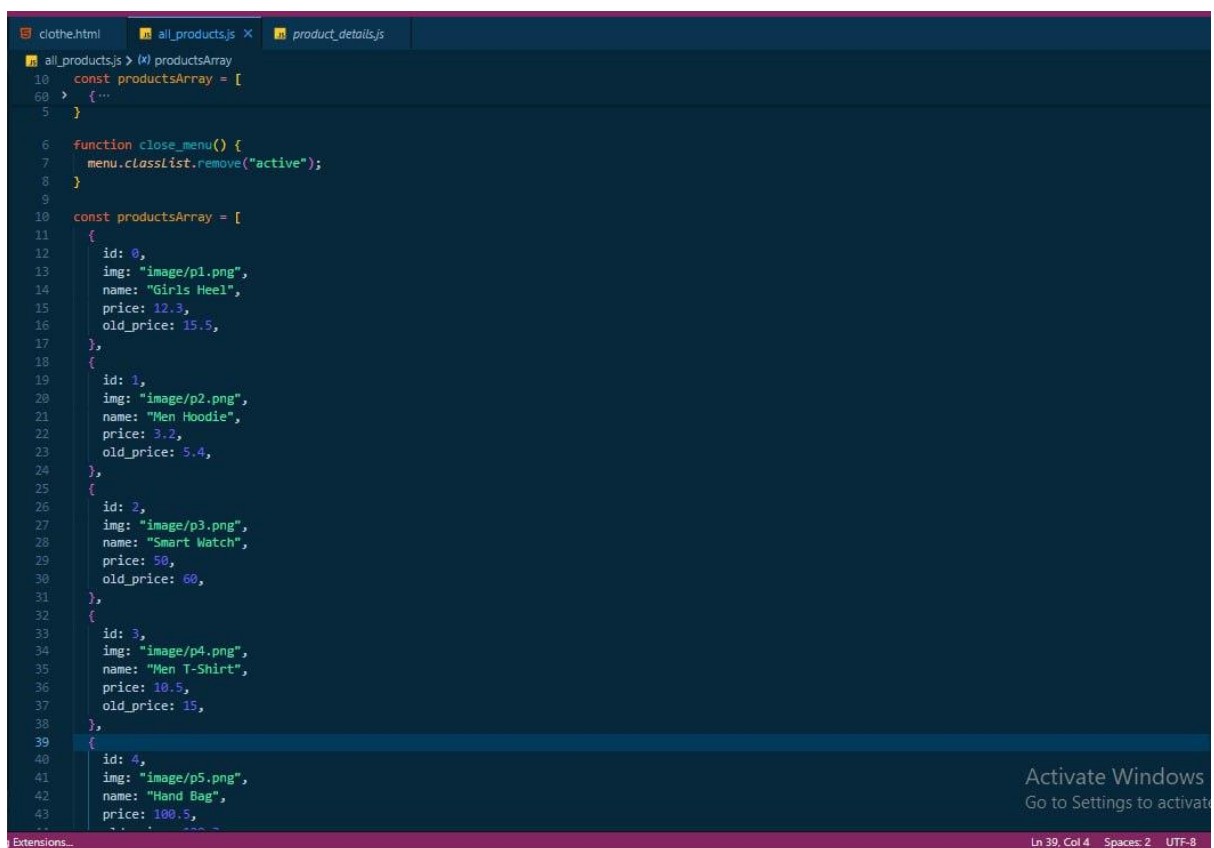
One of the primary tasks was creating a dynamic **Add to Cart** feature where products could be added to the cart and updated instantly.

## Challenge:

We faced difficulty linking the “**Add to Cart**” button to dynamically update the cart.

## Solution:

We created a function that listens for clicks on the "**Add to Cart**" button, retrieves the product information, and updates the cart dynamically in local storage.



```
clothe.html all_products.js product_details.js
all_products.js > (4) productsArray
10 const productsArray = [
60 > { ...
5 }

6 function close_menu() {
7 menu.classList.remove("active");
8 }
9
10 const productsArray = [
11 {
12 id: 0,
13 img: "image/p1.png",
14 name: "Girls Heel",
15 price: 12.3,
16 old_price: 15.5,
17 },
18 {
19 id: 1,
20 img: "image/p2.png",
21 name: "Men Hoodie",
22 price: 3.2,
23 old_price: 5.4,
24 },
25 {
26 id: 2,
27 img: "image/p3.png",
28 name: "Smart Watch",
29 price: 50,
30 old_price: 60,
31 },
32 {
33 id: 3,
34 img: "image/p4.png",
35 name: "Men T-Shirt",
36 price: 10.5,
37 old_price: 15,
38 },
39 {
40 id: 4,
41 img: "image/p5.png",
42 name: "Hand Bag",
43 price: 100.5,
44 old_price: 120.5,
45 },
46]
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```



clothe.html

all\_products.js

product\_details.js X

product\_details.js

```
144 //! adding logic to cart
145 var items_in_cart = document.querySelector(".items-in-cart");
146 let product_cart = JSON.parse(localStorage.getItem("product_cart")) || [];
147 let price_cart_head = document.querySelector(".cost");
148 let count_item = document.querySelector(".count_item");
149 let count_item_cart = document.querySelector(".count_item_cart");
150 let price_cart_total = document.querySelector(".price-cart-total");
151 let id_Array = [];
152 let id_pointer = 0;

153 function addToCard(id, btn) {
154 > for (let i = 0; i < id_Array.length; i++) {...
155 }
156 id_Array[id_pointer] = id;
157 id_pointer++;
158 product_cart.push(productsArray[id]);
159 btn.classList.add("active");
160 localStorage.setItem("product_cart", JSON.stringify(product_cart));
161 getCartItems();
162 }
163
164 function getCartItems() {
165 let total_price = 0;
166 let items_c = "";
167 > for (let i = 0; i < product_cart.length; i++) {...
168 }
169
170 items_in_cart.innerHTML = items_c;
171
172 price_cart_head.innerHTML = "$" + total_price;
173 count_item.innerHTML = product_cart.length;
174 price_cart_total.innerHTML = "$" + total_price;
175 count_item_cart.innerHTML = `${product_cart.length}(Item in Cart)`;
176 }
177
178 function remove_from_cart(index) {
179 id_pointer--;
180 id_Array.splice(index, 1);
181 product_cart.splice(index, 1);
182 localStorage.setItem("product_cart", JSON.stringify(product_cart));
183 }
```

## Data Persistence (Retaining Cart After Refresh)

### And Product Details Page

#### Challenge:

When refreshing the page or navigating to another page, the cart data was being lost.

#### Challenge:

We needed to dynamically link the Product Details page to show the correct product based on the user's selection.

#### Solution:

```
clothe.html all_products.js product_details.js
all_products.js > (x) productsArray
155 let products_div = document.getElementById("products_div");
156
157 function goToProductPage(id) {
158 sessionStorage.setItem("selectedProductId", id);
159 href = "product_page0.html";
160 }
161 product_Is = document.querySelector(".product_section");
162 productsArray.forEach((product) => {
163 products_div.innerHTML += `
164 <div class="product swiper-slide" >
165 <div class="icons">
166 <i onclick="addToCard(${product.id}, this)" class="fa-solid fa-cart-plus fa-cart-plus2"></i>
167 <i class="fa-solid fa-heart"></i>
168 <i class="fa-solid fa-share"></i>
169 </div>
170 <div class="img_product">
171
172 </div>
173 <div class="details_products">
174 <div class="details_about_product">
175 <h3 class="name_product">
176 ${product.name}
177 </h3>
178 <p>Lorem ipsum dolor sit amet.</p>
179 <div class="stars">
180 <i class="fa-solid fa-star"></i>
181 <i class="fa-solid fa-star"></i>
182 <i class="fa-solid fa-star"></i>
183 <i class="fa-solid fa-star"></i>
184 <i class="fa-solid fa-star"></i>
185 </div>
186 <div class="price">
187 <p>
188 ${product.price}
189
190 style="text-decoration: line-through; color: #666666af"
191 >${product.old_price}
192 </p>
193 </div>
194 </div>
195 </div>
196 </div>
```

```
clothe.html all_products.js product_details.js X
product_details.js
13
14 window.onload = function () {
15 getCartItems();
16 const productId = sessionStorage.getItem("selectedProductId");
17 if (productId) {
18 set_details(productId);
19 } else {
20 console.error("No product ID found in sessionStorage.");
21 }
22 };
23
24 function set_details(id) {
25 products_details = all_products_details[id];
26 if (products_details) {
27 product_js.innerHTML += `
28 <div class="container pb-lg-5">
29 <div class="row pt-3" style="margin-top: 220px;" >
30 <div class="col product_imagee d-flex justify-content-center align-items-center">
31
32
33
34 </div>
35 <div class="product_details col d-flex flex-column gap-2">
36 <p class="h2 m-0 text-capitalize">${products_details.name}</p>
37 <p class="h1 m-0">${products_details.price}</p>
38 <div class="d-flex product_stars">
39 <i class="fa-solid fa-star"></i>
40 <i class="fa-solid fa-star"></i>
41 <i class="fa-solid fa-star"></i>
42 <i class="fa-solid fa-star"></i>
43 <i class="fa-regular fa-star"></i>
44 </div>
45 <p class="h3 m-0">Product details:</p>
46 <p class="m-0">
47 Lorem ipsum dolor sit amet consectetur adipisicing elit. Unde
48 aperiam aut laboriosam qui ea, quam impedit officiis dignissimos
49 odio possimus autem reiciendis quasi, error voluptate ratione
50 perspiciatis facilis iste? Labore.
51 </p>
52 <p class="h3 m-0 mb-1">select size:</p>
53 <div class="product_sizee d-flex gap-2">
```

We stored the cart data in **local Storage**, allowing it to persist across page reloads and navigation. This way, the cart content would remain intact.

This function is called every time the cart page is loaded to ensure the cart data is retained.

## Bootstrap Integration

We used **Bootstrap** for the layout grid system and responsiveness, making the development process smoother. The **grid system** allowed us to align products, create consistent layouts, and ensure the site worked well on all devices without needing to write extensive media queries manually.

## Conclusion

Throughout the development of this project, we encountered various challenges, particularly with JavaScript functionality and responsiveness. However, by leveraging local Storage, Bootstrap, and dynamic URL handling, we were able to create a functioning, dynamic e-commerce site. This documentation serves as a guide to understanding the structure and core logic behind our code.