

E-Commerce Product Page Tutorial

E-Commerce Product Page – Complete Guide

We'll create an **interactive e-commerce product page** with the following features:

1. **Image Carousel** – Users can toggle between multiple product images.
2. **Product Description Toggle** – Show/Hide extra details when clicked.
3. **Dynamic Price Display** – Updates when selecting different variations (like size or color).
4. **CSS Animations** – Smooth transitions for a great user experience.

Step 1: Project Structure

We'll create three files:

- **index.html** → Contains the page structure.
- **style.css** → Handles the design.
- **script.js** → Controls interactivity.

Step 2: HTML - Structuring the Page

We structure the page with:

- An **image carousel** inside a container.
- **Product details**, including a title, price, and description.
- A **button** to show/hide extra product details.

```
html

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Product Page</title>
  <link rel="stylesheet" href="style.css">
</head>
<body>
  <div class="product-container">
    <div class="image-carousel">
      
      <div class="thumbnails">
        
        
        
      </div>
    </div>

    <div class="product-details">
      <h2>Stylish Sneakers</h2>
      <p class="price">$49.99</p>
    </div>
  </div>
</body>
</html>
```

```

<label for="size">Select Size:</label>
<select id="size" onchange="updatePrice()">
  <option value="49.99">Small - $49.99</option>
  <option value="54.99">Medium - $54.99</option>
  <option value="59.99">Large - $59.99</option>
</select>

<p id="extra-details" class="hidden">
  These stylish sneakers are designed for maximum comfort and durability. Available in
</p>

<button onclick="toggleDetails()">Show More Details</button>
</div>
</div>

<script src="script.js"></script>
</body>
</html>

```

Step 3: CSS - Styling the Page

We apply **modern styling**, including:

- **Flexbox** for alignment.
- **Smooth transitions** for toggling elements.
- **Hover effects** for interactivity.

```

css

body {
  font-family: Arial, sans-serif;
  margin: 0;
  padding: 0;
  display: flex;
  justify-content: center;
  align-items: center;
  height: 100vh;
  background-color: #f4f4f4;
}

.product-container {
  display: flex;
  background: white;
  padding: 20px;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.image-carousel {
  flex: 1;
  text-align: center;
}

#main-image {
  width: 300px;
  height: 300px;
  object-fit: cover;
  border-radius: 8px;
  transition: transform 0.3s ease-in-out;
}

#main-image:hover {
  transform: scale(1.05);
}

```

```
.thumbnails img {
  width: 60px;
  height: 60px;
  margin: 5px;
  cursor: pointer;
  border-radius: 5px;
  transition: opacity 0.3s;
}

.thumbnails img:hover {
  opacity: 0.7;
}

.product-details {
  flex: 1;
  padding: 20px;
}

.price {
  font-size: 1.5em;
  color: #ff5733;
}

button {
  background-color: #ff5733;
  color: white;
  padding: 10px;
  border: none;
  cursor: pointer;
  border-radius: 5px;
  transition: background 0.3s ease-in-out;
}

button:hover {
  background-color: #cc4626;
}

.hidden {
  display: none;
}
```

Step 4: JavaScript - Adding Interactivity

We add JavaScript for:

- **Changing the main image** when clicking thumbnails.
- **Toggling product details** on button click.
- **Updating the price** based on selected size.

```
js

// Function to change the main image
function changeImage(imageSrc) {
  document.getElementById('main-image').src = imageSrc;
}

// Function to toggle product details
function toggleDetails() {
  let details = document.getElementById('extra-details');
  if (details.classList.contains('hidden')) {
    details.classList.remove('hidden');
  } else {
    details.classList.add('hidden');
  }
}
```

```
// Function to update price based on selected size
function updatePrice() {
    let selectedPrice = document.getElementById('size').value;
    document.querySelector('.price').textContent = `$$${selectedPrice}`;
}
```

Step 5: Explanation

1. HTML

- `<div class="image-carousel">` → Displays product images.
- `` elements in `.thumbnails` → Allow switching the main image using JavaScript.
- `<select>` **dropdown** → Changes price dynamically.
- `<button>` → Toggles the description visibility.

2. CSS

- `.product-container` → Uses **flexbox** for layout.
- `.hidden` → Hides elements initially (used for toggling).
- `.thumbnails img:hover` → Adds a **hover effect**.
- **Transitions** for **smooth animations**.

3. JavaScript

- `changeImage(imageSrc)` → Changes the main image when a thumbnail is clicked.
- `toggleDetails()` → Adds/removes the `.hidden` class to show/hide extra details.
- `updatePrice()` → Changes the price dynamically when a size is selected.

Final Thoughts

This **project covers key concepts** in web development: ✓ DOM Manipulation

✓ Event Handling

✓ CSS Transitions & Animations

✓ Responsive Layout

Now, try adding **more features**, like:

- **Color selection** for different variants.
- **Zoom effect** on images.
- **Add to Cart functionality**.

Would you like enhancements, like responsiveness or animations? 🚀

ChatGPT can make mistakes. Check important info.