

# Develop a Responsive E-Commerce Product Page

## Objective:

This exercise is designed to be completed in approximately 4 hours to help us assess your front-end development skills, including your ability to create responsive designs, implement interactive features, and write clean, maintainable code.

## Requirements:

Please create a **web-based** solution with the following features:

- 1. Product Detail Page:**
  - Display product name, description, price, category, SKU, and images.
  - Display product images.
  - Display other products, with clickable links to their respective pages.
- 2. User Interactions:**
  - Add an "Add to Cart" button that updates a cart item count that is visible at the top of the page.
- 3. Product Creation Form:**
  - Create a form to add a new product, including fields for product name, description, price, category, SKU, and images.
  - Save the product data to local storage.
  - Redirect to the newly created product page.
  - Do not worry about validation
- 4. Responsive Design:**
  - Ensure the page is fully responsive, working well on various screen sizes.
  - Use CSS (Flexbox/Grid) for layout, ensuring a clean and modern design.
- 5. Code Quality:**
  - Code should be clean, well-organized, and commented.
  - Use of ES6+ features is encouraged.
  - Follow best practices for accessibility and performance.

## Instructions:

- 1. Implementation Setup:**
  - You can use a framework but are encouraged to minimize dependencies.
  - You can use local storage to save and retrieve product data.
- 2. Submission:**
  - Commit to a Github repo or zip and attach the project files, sending them by email.
  - Provide a README file with instructions on how to build (if required) & run the application as well as any additional notes.

## Sample Data:

You will find a zipped attachment with images and details for four sample products. Use this data to populate the initial "state".

### Product 1:

- **Name:** Wireless Earbuds
- **Description:** Experience unparalleled sound quality with our high-quality wireless earbuds. Featuring advanced noise cancellation technology and a long-lasting battery life, these earbuds are perfect for music lovers and professionals on the go. With a comfortable, ergonomic design, you can enjoy your favorite tunes or take calls with ease.
- **Price:** \$59.99
- **Category:** Electronics
- **SKU:** WLB-001
- **Images:** (Provided in the zipped attachment)

### Product 2:

- **Name:** Yoga Mat
- **Description:** Enhance your yoga practice with our durable and eco-friendly yoga mat. Designed for all types of yoga and exercise routines, this mat provides superior grip and cushioning to support your movements. Made from sustainable materials, it ensures both comfort and environmental consciousness during your workout sessions.
- **Price:** \$29.99
- **Category:** Fitness
- **SKU:** YM-002
- **Images:** (Provided in the zipped attachment)

### Product 3:

- **Name:** Coffee Maker
- **Description:** Start your mornings right with our programmable coffee maker. Featuring a 12-cup capacity and a built-in grinder, this coffee maker allows you to enjoy fresh, flavorful coffee at the touch of a button. Its sleek design and easy-to-use interface make it a perfect addition to any kitchen, catering to both coffee enthusiasts and casual drinkers.
- **Price:** \$89.99
- **Category:** Home Goods
- **SKU:** CM-003
- **Images:** (Provided in the zipped attachment)

### Product 4:

- **Name:** Hiking Backpack
- **Description:** Gear up for your outdoor adventures with our lightweight and water-resistant hiking backpack. Featuring multiple compartments and a built-in hydration bladder, this backpack is designed to keep you organized and hydrated on the go. Its robust construction and comfortable fit make it an ideal choice for hikers, campers, and travelers.
- **Price:** \$79.99
- **Category:** Outdoors
- **SKU:** HB-004
- **Images:** (Provided in the zipped attachment)

## Evaluation Criteria:

### 1. **Functionality:**

- Does the product page meet all the basic requirements?
  - Displays all fields
  - Displays all images
  - Displays other products
  - Functional add to cart
    - Does the product creation form function correctly
  - Displays all fields
  - Saves correctly
  - Redirects to the newly created product page

### 2. **Design and Usability:**

- Is the product page visually appealing with visual consistency in fonts, colors, whitespace?
- Is the functionality easy to use?
- Is the design responsive on various screen widths?

### 3. **Code Quality:**

- Is the code well-structured and easy to understand?
- Is the code well-documented?
- Are best practices followed, including use of ES6+ features, and modularity?

### 4. **Problem-Solving:**

- How effectively has the candidate solved the problem?
- Have they demonstrated creativity or efficiency in their approach?

### 5. **Technology and Dependency Selection:**

- Evaluate the candidate's choice of technologies and dependencies.
- Consider the trade-off between speed, risk, and ongoing management of dependencies.
- Assess how well the candidate balances the use of external libraries and frameworks with the need for maintainable and reliable code.

**Good luck and you may reach out if you have any questions!**