

Assessment Project: Single Store Page with Shopping Cart and Local Storage Functionality

Objective

The goal of this project is to create an interactive single-page store application where users can view a selection of products, add items to a shopping cart, and manage their cart contents dynamically. The application should persist with cart data using local storage to enhance user experience.

Requirements

1. Header Section

- **Title:** Display the store's name.
- **Shopping Cart Icon:** Include an icon representing a shopping cart (e.g., a bin shop). Clicking this icon toggles the visibility of a side panel that displays the cart's contents.

2. Main Content

- **Product Cards:**
 - Display 5–6 product cards on the page.
 - Each product card must include:
 - A picture of the product (e.g., a picture of a smart phone)
 - The product name.
 - The product price.
 - An "Add to Cart" button to add the item to the shopping cart.
 - Use an appropriate layout to ensure the cards are visually appealing and responsive.
 - Create the product cards with HTML
 - Use CSS variables.

3. Cart Side Panel

- When the shopping cart icon is clicked, a side panel appears with the following functionalities:
 - **List of Added Products:** Display the name, price, and quantity of each added product.
 - **Remove Individual Items:** Include a button to remove a specific item from the cart.
 - **Clear All Items:** Provide an option to delete all items from the cart.

4. Local Storage Integration

- Use local storage to persist cart data across sessions.
- When the page is reloaded, previously added items should still be displayed in the cart.
- Updates to the cart (adding, removing, or clearing items) should automatically update the local storage.

5. Interaction and Validation

- Ensure that the "Add to Cart" button adds products correctly and updates the cart dynamically.

Deliverables

- **Codebase:** Provide a clean, well-commented HTML, CSS, and JavaScript codebase.
- **Demo:** The project should be functional, visually appealing, and responsive

Evaluation Criteria

• **Functionality:**

- Proper implementation of the shopping cart with local storage.
- Smooth toggling of the cart side panel.
- Correct cart item addition, deletion.

• **User Interface and Experience:**

- Visually appealing layout and **design**.
- Responsive design (Desktop and mobile only)

• **Code Quality:**

- Clean, modular, and well-documented code.
- Appropriate use of CSS and JavaScript