

# Test:

## Instructions:

1. Candidates are free to use any programming language or framework of their choice to complete the task.
  2. All solutions must be submitted via your personal GitHub account. A separate form for submitting your project link will be provided.
  3. Demonstrate your Git workflow skills, including branching and pull request management.
  4. Host a live version of your solution using a service like GitHub Pages, Vercel, or any other hosting platform.
  5. Include a detailed README file in your repository that explains the project and provides clear instructions on how to run it locally.
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## QUESTION : Shopping Cart Application

### Objective:

Develop an application that allows users to manage items in a shopping cart.

### Project Requirements:

1. Product Display:
  - Create a JSON file (e.g., `products.json`) within your project repository to act as a mock API endpoint.
  - This file should contain a list of at least 10 products, each with a name and a price.
  - Your application should fetch and display these products to the user.
2. Cart Functionality:
  - Add to Cart: Users must be able to add products from the list to their shopping cart.
  - Update Cart: In the cart, users should be able to increase or decrease the quantity of each item.
  - Delete from Cart: Users must be able to completely remove an item from the cart.
  - Calculate Total: The application should calculate and display the total price of all items in the cart.

### 3. Coupon Feature:

- Implement a feature that allows users to apply a coupon code.
- Use the coupon code **POWERLABSx** to apply a 13.2% discount to the total cart amount upon checkout.

### 4. Input Validation:

- Inputs, such as the coupon code, must be validated. You may use methods like Regular Expressions for this.

### 5. Error Handling:

- Implement robust error-handling mechanisms to ensure the application runs smoothly.