Test Cases for Discount Code Module

TC-01: Apply a valid percentage-based discount code

- **Preconditions:** The cart contains at least one eligible item.
- **Steps:** 1. Enter a valid percentage discount code (e.g., PROMO20) in the input field.
  2. Click the "Apply" button.
- **Expected Result:** The system applies a 20% discount to the eligible items. The total price is updated correctly, and a success message is displayed.

TC-02: Apply a valid fixed-amount discount code

- **Preconditions:** The cart total is strictly greater than the discount amount.
- **Steps:** 1. Enter a valid fixed-amount code (e.g., MINUS50) in the input field.
  2. Click the "Apply" button.
- **Expected Result:** Exactly 50.00 is subtracted from the cart total. The updated total is displayed along with a success message.

TC-03: Attempt to apply an invalid or non-existent discount code

- **Preconditions:** The cart contains items.
- **Steps:** 1. Enter a random, non-configured string (e.g., FAKESALE) in the input field.
  2. Click "Apply".
- **Expected Result:** The total price remains unchanged. A clear error message (e.g., "Invalid discount code") is displayed to the user.

TC-04: Attempt to apply an expired discount code

- **Preconditions:** A discount code exists in the database but its expiration date has passed.
- **Steps:** 1. Enter the expired code in the input field.
  2. Click "Apply".
- **Expected Result:** The total price remains unchanged. An error message indicating the code has expired is displayed.

TC-05: Handle case sensitivity and leading/trailing whitespaces

- **Preconditions:** A valid code WINTER10 exists.
- **Steps:** 1. Enter the code in lowercase with spaces: winter10 .
  2. Click "Apply".
- **Expected Result:** The system automatically trims the whitespaces, handles case-insensitivity gracefully, and successfully applies the discount.

TC-06: Attempt to apply a code when the minimum order value is not met

- **Preconditions:** A valid code exists that requires a minimum cart value of $100. The current cart value is $90.
- **Steps:** 1. Enter the code in the input field.
  2. Click "Apply".

- **Expected Result:** The discount is rejected. An error message informs the user about the minimum required amount (e.g., "Add items worth $10 more to use this code").

TC-07: Attempt to apply a code to excluded/already discounted products

- **Preconditions:** The cart contains only items from a category excluded from promotions (e.g., "Sale" or "New Collection").
- **Steps:** 1. Enter a valid general discount code.
  2. Click "Apply".
- **Expected Result:** The discount is not applied. An error message explains that the code is not valid for the items currently in the cart.

TC-08: Attempt to reuse a single-use discount code

- **Preconditions:** The user is logged in and has already successfully used a specific one-time code on a previous order.
- **Steps:** 1. Add items to the cart.
  2. Enter the previously used single-use code.
  3. Click "Apply".
- **Expected Result:** The discount is rejected. An error message states that the code has already been redeemed by this account.

TC-09: Remove an applied discount code

- **Preconditions:** A valid discount code has been successfully applied to the cart.
- **Steps:** 1. Click the "Remove" (or "X") icon next to the applied discount code.
- **Expected Result:** The discount is immediately removed. The cart total recalculates back to the original full price, and the discount code input field becomes empty and active again.

TC-10: Attempt to stack multiple mutually exclusive discount codes

- **Preconditions:** The cart already has an active discount code applied.
- **Steps:** 1. Enter a second valid discount code in the input field.
  2. Click "Apply".
- **Expected Result:** The system rejects the second code with an error message stating "Only one code can be applied per order", OR it asks the user if they want to replace the current code with the new one (depending on exact business requirements).