### **1. Validate Email Uniqueness During Registration**

**Steps:**

1. Navigate to the homepage.
2. Click on "Create an Account".
3. Enter user details using an email that is already registered.
4. Submit the registration form.

**Expected Result:** The system should prevent duplicate registration and display a clear error message indicating the email is already in use.

### **2. Validate Persistent Cart Functionality After Login**

**Steps:**

1. As a guest user, add multiple products to the cart.
2. Click on "Sign In" and log in with a registered user account.
3. Navigate to the cart page.

**Expected Result:** All items added to the cart before logging in should still be present after login, ensuring cart persistence across sessions.

### **3. Validate Price Calculation with Discounts or Coupons**

**Steps:**

1. Log in with a registered user account.
2. Add products eligible for discounts to the cart.
3. Apply a valid coupon code at checkout.
4. Review the subtotal, discount applied, and final total.

**Expected Result:** The discount should be correctly applied, and the final price should accurately reflect the subtotal minus discounts and taxes.

### **4. Wishlist to Cart Migration With Option Selection**

**Steps:**

1. Log in and add a product that requires size and color selection to the Wishlist.
2. Navigate to the Wishlist page.
3. Click "Add to Cart" for the product.
4. If prompted, select size and color options.
5. Confirm addition to the cart.

**Expected Result:** The product should be successfully moved from Wishlist to the cart with the correct options selected.

### **5. Search for a Non-existent Product and Validate Message**

**Steps:**

1. Enter a random or nonsensical product name in the search bar (e.g., "xyzabc123").
2. Click the search icon or press Enter.
3. Observe the search results page.

**Expected Result:** A friendly message should be displayed indicating no products were found matching the search term, possibly with suggestions for related searches.