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| | **Test Case ID** | | --- | | Description | Priority | Status |
| TM-TC-01 | ****Add Single Product**** | High | Not Executed |
| TM-TC-02 | Add Multiple Different Products | High | Not Executed |
| TM-TC-03 | ****Add Multiple Quantities of the Same Product**** | High | Not Executed |
| TM-CHK-01 | ****Checkout with Single Product**** | High | Not Executed |

This document summarizes the test cases executed for TechMart,

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**P.S.:** There are additional test cases that could be documented. Given more time and less stress, I would like to add more

### Test Environment

* **Browser:** Chrome
* **Network:** Unfortunately unstable internet connection

### Initial Preconditions for All TC

* Application is accessible and running
* Test user account exists and is active

### ****Test Case – Add Single Product from TechMart****

**Test Case ID:** TM-TC-01  
**Test Scenario:** Add a single product to the cart from the products page and verify in the cart page.  
**Test Type:** Functional / UI / E2E  
**Priority:** High

**Preconditions:**

* User is logged in with test credentials (e.g., (testing creds) Username: client@example.com, Password: !Aa123456)
* Browser cache cleared.
* Products page fully loaded (/products).

**Test Data:**

* Any available product from the products page.

**Test Steps:**

1. Navigate to the **login page** (/login) and log in using test credentials.
2. After successful login, ensure you are redirected to the **products page**.
3. Verify the **top bar** elements: Has the Client name.
4. Locate any product card on the products page.
5. Click the **“Add to Cart”** button for that product.
6. Observe the **cart icon** in the top bar:

* If the cart was empty, it should now show **1**.
* If the cart already contained items, the count should **increment by 1**.

1. Navigate to the **cart page** (/cart).
2. Verify the newly added product appears at the **top of the cart list** (most recently added).
3. Check that product details (name, price, quantity) are correct.

**Expected Result:**

* Product is successfully added to the cart.
* Cart icon updates correctly based on previous cart count.
* Cart page shows the last added product at the top.
* No UI or functional errors occur.

**Postconditions:**

* Product remains in the cart until removed or purchased.
* Cart count remains accurate on page refresh (covered in another test case).

**Test Case – Add Multiple Different Products**

**Test Case ID:** TM-TC-02  
**Test Scenario:** Add multiple different products to the cart and verify they appear correctly.  
**Test Type:** Functional / UI / E2E  
**Priority:** High

**Preconditions:**

* User is logged in with test (e.g., (testing creds) Username: client@example.com, Password: !Aa123456)
* Products page fully loaded (/products).
* At least two different products available on the products page.

**Test Data:**

* Two or more different products with known prices.

**Test Steps:**

1. Navigate to the **login page** (/login) and log in using test credentials.
2. Ensure you are redirected to the **products page**.
3. Verify the **top bar** elements: The Client name.
4. Locate the first product card and click **“Add to Cart**”
5. Observe the **cart icon**: count should increase by 1.
6. Locate the second product card (different from the first) and click **“Add to Cart”**.
7. Observe the **cart icon**: count should increase by 1 again.
8. Navigate to the **cart page** (/cart).
9. Verify both products appear in the cart:

* Both product names, prices, and quantities are correct.
* The **most recently added product appears at the top**.

1. Verify the **Grand Total:** reflects the sum of all added products.

**Expected Result:**

* Both products are successfully added to the cart.
* Cart icon count updates correctly after each addition.
* Cart page displays products in order: last added at the top.
* Product details (name, price, quantity) match the products page.
* **Grand Total** = sum of individual products × quantities.
* No UI or functional errors occur.

**Postconditions:**

* All products remain in the cart until **removed or purchased**.
* Cart count remains accurate on page refresh.

### ****Test Case – Add Multiple Quantities of the Same Product****

**Test Case ID:** TM-TC-03  
**Test Scenario:** Add multiple quantities of the same product to the cart and verify correct quantity and Grand Total.  
**Test Type:** Functional / UI / E2E  
**Priority:** High

**Preconditions:**

* User is logged in with test credentials (e.g., (testing creds) Username: client@example.com, Password: !Aa123456)
* Products page fully loaded (/products).
* At least one product available that allows multiple quantities.

**Test Data:**

* Single product with known price.

**Test Steps:**

1. Navigate to the **login page** (/login) and log in using test credentials.
2. Ensure you are redirected to the **products page**.
3. Verify the **top bar** elements: client name.
4. Locate a product card on the products page.
5. Click **“Add to Cart”** on the product **once**.
6. Observe the **cart icon**: count should increase by 1.
7. Click **“Add to Cart”** again on the **same product** multiple times (e.g., 2–3 more times). (Each click on **“Add to Cart”** creates a new entry in the cart.)
8. Navigate to the **cart page** (/cart).
9. Verify **each addition appears as a separate entry** in the cart.
10. Verify the **cart icon count** reflects the total quantity of this product added.
11. Verify the **grant total** is equal to this product = price × quantity.

**Expected Result:**

* Product is successfully added multiple times to the cart.
* Cart icon count updates correctly for each addition.
* Cart page shows the products, with the correct **quantity and grant total**.
* Most recently added product still appears at the top of the cart.
* No UI or functional errors occur.

**Postconditions:**

* Product remains in the cart until **removed or purchased**.

### ****Test Case – Checkout with Single Product****

**Test Case ID:** TM-CHK-01  
**Test Scenario:** Complete checkout for a single product using TechMart’s checkout form.  
**Test Type:** Functional / UI / E2E  
**Priority:** High

**Preconditions:**

* User is logged in with test credentials (e.g., (testing creds) Username: client@example.com, Password: !Aa123456)
* At least one product in the cart (/cart).
* Cart page fully loaded with **Coupon section** and **Cart Totals**.

**Test Data:**

* Product already in cart (e.g., iPhone 14 Pro ×2).
* Shipping Details:
  + Full Name: Admin Admin
  + Address, City, State, ZIP
* Payment Details:
  + Name on Card: John Doe
  + Card Number: 1234 5678 9012 3456
  + Expiry Date: MM/YY
  + CVV: 123

**Test Steps:**

1. Navigate to the **cart page** (/cart).
2. Verify cart items: product name, quantity, price, grand total.
3. Optional: Enter **coupon code** (e.g., SAVE10) and click **Apply**.
   * Verify discount applied correctly.
4. Verify **Cart Totals**: Grand Total.
5. Click **“Proceed to Checkout”**.
6. On the **checkout form page**, fill in:
   * **Shipping Address**: Full Name, Address, City, State, ZIP Code.
   * **Payment Information**: Name on Card, Card Number, Expiry Date, CVV.
7. Review **Order Summary(here there is bug but it supposed to be)**:
   * Product name, quantity, individual price, subtotal.
   * Grand Total = Subtotal + Shipping – Discount (if applied).
8. Click **“Place Order – $[Grand Total]”** to submit order.
9. Verify **confirmation message** appears at the button of the page (“Order placed successfully….”).
10. Navigate back to the **orders page** and verify it is **add my order**.
11. Navigate back to the **cart page** and verify it is **empty**.

**Expected Result:**

* Checkout form validates all required fields.
* Coupon (if applied) updates totals correctly.
* Order is placed successfully without errors.
* Confirmation message is displayed with correct details.
* Cart is emptied after successful checkout.
* Grand Total matches expected calculation.

**Postconditions:**

 Order is recorded in the system and displayed on the **My Orders page**.

* Cart remains empty until new products are added.

### ****Test Case – Checkout with Multiple Products -TechMart****

**Test Case ID:** TM-CHK-02  
**Test Scenario:** Complete checkout for multiple products in the cart

**Test Type:** Functional / UI / E2E  
**Priority:** High

**Preconditions:**

* User is logged in with test credentials (e.g., Username: client@example.com, Password: !Aa123456).
* Multiple products are added to the cart (/cart).
* Cart page fully loaded with **Coupon section** and **Cart Totals**.

**Test Data:**

* Products already in cart, e.g.:
  + iPhone 14 Pro ×2 ($999.99 each)
  + Samsung galaxy s23 ×1 ($799.99)
* Shipping Details:
  + Full Name: Karim Khalil
  + Address, City, State, ZIP
* Payment Details:
  + Name on Card: John Doe
  + Card Number: 1234 5678 9012 3456
  + Expiry Date: MM/YY
  + CVV: 123
* Optional coupon code (e.g., SAVE10, WELCOME20).

**Test Steps:**

1. Navigate to the **cart page** (/cart).
2. Verify all **cart items**: product names, quantities, individual prices, grandtotal.
3. Optional: Enter a **coupon code** and click **Apply**.
   * Verify discount applied correctly to Grand Total.
4. Verify **Cart Totals**: Subtotal, Shipping, Grand Total.
5. Click **“Proceed to Checkout”**.
6. On the **checkout form page**, fill in:
   * Shipping Address: Full Name, Address, City, State, ZIP Code.
   * Payment Information: Name on Card, Card Number, Expiry Date, CVV.
7. Review **Order Summary**:
   * Product names, quantities, individual prices, subtotal.
   * Grand Total = Subtotal + Shipping – Discount (if applied).
8. Click **“Place Order – $[Grand Total]”** to submit the order.
9. Verify **confirmation message** appears at the bottom of the page: “Order placed successfully…”.
10. Navigate to **My Orders page** and verify all placed products are listed correctly with correct quantities and totals.
11. Navigate back to the **cart page** and verify it is **empty**.

**Expected Result:**

* Checkout form validates all required fields(if any but here all are optional).
* Coupon (if applied) updates totals correctly.
* All products are successfully purchased without errors.
* Confirmation message displayed with correct order details.
* Cart is emptied after successful checkout.
* Grand Total matches expected calculation.

**Postconditions:**

* All orders recorded in system and listed in **My Orders page**.
* Cart remains empty until new products are added.