❖ *I have chosen these (Purchase & Stock Book) two connected modules from the ones you provided*

Purchase : Positive Test Case

▪ **Test Case_01** : Adding Products to Cart and Verifying Cart Totals

Test Case ID   :   TC_PUR_001

Test Case Title   :   Adding Products to Cart and Verifying Cart Totals

Test Case Scenario : Ensure that a product is added to the cart, the cart add the correct quantity & price.

Test Case Type   :   Functional

Preconditions   :   The user is logged in & the product is available in stock.

Test Data   :   Product: "Test Product", Quantity: 2

Test Steps   :

➢ Go to the homepage then click on the purchase icon and search for "Test Product ".
➢ Click on the product and select the quantity (2).
➢ Click on "Add to Cart".
➢ Click on the "Buy Product" button
➢ Verify that the cart displays the correct product, quantity (2), and total price (price × quantity).
➢ Verify that the cart total is correctly calculated, including discount and delivery charge.
➢ Product should be successfully added to the cart.
➢ Cart should display the correct product, quantity, and price.
➢ The cart total should reflect the correct price ,discount and delivery charge.
➢ If you have specific supplier then "Select the supplier".
➢ Choose the Payment Method.
➢ If needed then write down a note then confirm payment and get a receipt.

Expected Result   :   Verify that the cart total is correctly calculated, including discount and delivery charge.

Actual Result   :   the cart total is correctly calculated, including discount and delivery charge

Status   :   Pass

Priority   :   High

Severity   :   Critical

Tested By   :   Jaheda Akter Tamanna

Test Date   :   1st Aug

Comments   :   Discount and delivery charges are applied correctly.

- **Test Case_02** : Payment Gateway Integration and Successful Payment

Test Case ID   : TC_PUR_002

Test Case Title   : Payment Gateway Integration and Successful Payment

Test Case scenario : Test the entire payment process from entering payment details to confirmation of payment.

Test Case Type   : Functional

Preconditions   : The user has valid payment details (Cash,Nagad,Bkash,Bank Cheque etc) .

Test Data   :

- Payment Method : Cash,Nagad,Bkash,Bank Cheque or other options.
- Card Number   : "4111111111111111"
- Expiry Time   : 24 Hours
- Pin number:123345

Test Steps   :

- Add items to the cart .
- Enter the shipping details (address, city,road ,house).
- Choose any payment method.
- Enter the valid payment details (card number, pin number).
- Click "Complete Purchase".
- Verify that the payment is processed successfully .
- Ensure that the user sees a confirmation message with the order number and payment details.
- Payment should be processed successfully.
- The website should show correct details (order number, payment status).
- User should receive an Order Confirmation **email or msg** with tracking details.

Expected Result   : Ensure that the user get a confirmation msg with the order number and payment details.

Actual Result   : the cart total is correctly calculated, including discount and delivery charge

Status   : Pass

Priority   : High

Severity   : Critical

Tested By   : Jaheda Akter Tamanna

Test Date   : 1st Aug

Comments   : Check for payment failure handling (invalid details, expired card).

Purchase : Negative Test Case

■ **Test Case_03** : Adding Out-of-Stock Product to Cart

Test Case ID   : TC_PUR_003

Test Case Title   :   Adding Out-of-Stock Product to Cart

Test Scenario   :   Verify that the website prevents adding out-of-stock products to the cart

Test Case Type   : Functional

Preconditions   : Product is marked as out of stock in the inventory system.

Test Steps   :

   ➢ Navigate to the product page for "Test Product".
   ➢ Verify that the product is shown as "Out of Stock" or "Unavailable".
   ➢ Attempt to add the out-of-stock product to the cart.
   ➢ Observe if the site prevents adding the item to the cart and shows an appropriate error message (e.g., "This product is out of stock").
   ➢ The product should not be added to the cart.
   ➢ An appropriate error message should be displayed, such as "This product is currently out of stock."

Expected Result :   prevents adding the item to the cart and shows an appropriate error message ("This product is out of stock").

Actual Result   :   adding the item to the cart

Status   : fail

Priority   :   High

Severity   :   Critical

Tested By   :   Jaheda Akter Tamanna

Test Date   : 1ˢᵗ Aug

Stock Book : Positive Test Case

■ **Test Case_01** : Stock Update After Purchase

Test Case ID   : TC_PUR_001

Test Case Title   : Stock Update After Purchase

Test Scenario   :   Ensure that after a customer completes a purchase, the stock count for the product decreases correctly.

Test Case Type   :   Functional

Preconditions   : Product is in stock, and user has completed the checkout and payment process.

Test Data   : Product: "Test Product", Initial Stock: 20, Quantity Purchased: 1

Test Steps   :

  ➢ Add " Test Product " to the cart.
  ➢ Complete the checkout process and make the payment.
  ➢ After the purchase, go to the admin panel.
  ➢ Verify that the stock count for the product has decreased by 1 (new stock count = 19).
  ➢ The stock count for "Wireless Bluetooth Headphones" should decrease by 1.
  ➢ The new stock count should reflect accurately on the product page and in the admin panel.

Expected Result : Verify that the stock count for the product has decreased by 1

Actual Result   : decreased the "Test Product " quantity

Status   : pass

Priority   : High

Severity   : Critical

Tested By   : Jaheda Akter Tamanna

Test Date   : 1ˢᵗ Aug

Comment   : Test for both admin panel stock updates and product page display.

Stock Book : Positive Test Case

■ **Test Case_01** : Accurate Product Availability Display

Test Case ID   :   TC_PUR_001

Test Case Title   :   Accurate Product Availability Display

Test Scenario   :   Ensure that when a product is out of stock, an "Out of Stock" alert is displayed, and customers who subscribe for restock notifications are promptly notified once the product becomes available again.

Test Case Type   :   Functional

Preconditions   :   Product is currently out of stock, and the user has signed up for restock notifications.

Test Data   :   Product: "Test Product", Initial Stock: 0, User Email: "customer@example.com"

Test Steps   :

- ➢   Go to the product page for "Test Product".
- ➢   Verify that the product page displays an "Out of Stock" message.
- ➢   Sign up for restock notifications by entering an email address ("customer@example.com").
- ➢   When the product is restocked (stock quantity is updated), verify that the user receives a restock notification email.
- ➢   The product page should display an "Out of Stock" message when inventory is 0.
- ➢   The user should receive a **restock notification** email once the product is back in stock.
- ➢   The email should include the product name, availability, and a link to purchase it.

Expected Result   :   When the product is restocked (stock quantity is updated) ,the user receives a restock notification email.

Actual Result   :   Product is restocked   &   users receives a restock notification email.

Status   :   pass

Priority   :   High

Severity   :   Critical

Tested By   :   Jaheda Akter Tamanna

Test Date   :   1st Aug

Comment   :   Test the entire cycle from out-of-stock to restocking and notification delivery.

Stock Book : Negative Test Case

■ **Test Case_02** : Inaccurate Stock Count Display

Test Case ID   : TC_PUR_002

Test Case Title   : Inaccurate Stock Count Display

Test Scenario   : Verify that the product page shows an inaccurate stock count after a purchase, leading to a potential over-selling situation.

Test Case Type   : Functional

Preconditions   : Product is in stock, and the user completes a purchase.

Test Data   : Product: "Test Product", Initial Stock: 12, Quantity Purchased: 2

Test Steps   :

- ➢ Add " Test Product " to the cart.
- ➢ Complete the checkout process, paying for the product.
- ➢ Navigate to the product page again and verify if the stock count is reduced by 1 (new stock = 10).
- ➢ Check if the stock count still displays the incorrect original value (still 12).
- ➢ The stock count on the product page should automatically decrease by 1 (new stock = 10).
- ➢ The product page stock count should be updated immediately to reflect the actual inventory level.

Expected Result : Check if the stock count still displays the incorrect original value (still 12).

Actual Result   : Show incorrect value

Status   : Pass

Priority   : High

Severity   : Critical

Tested By   : Jaheda Akter Tamanna

Test Date   : 1st Aug

Comment   : Ensure that stock updates are done in real time to prevent overselling.

Bug Report: Out-of-Stock Products Can Still Be Purchased

Bug ID : ECOM-5678

Status : Open

Issue title : Out-of-Stock Products Can Still Be Purchased

Priority: Critical

Severity:High

Reported By: Mr X

Date Reported: 1st Aug

Module/Screen:

- Android phone
- E-commerce Platform: Hishabee Web App
- Product ID: Test Product

Steps to Reproduce:

- Precondition: Set the stock level for "Test Product" to 0 in the inventory.

- Navigate to the product page for " Test Product".

- Verify that the product displays as "Out of Stock" or "Unavailable".

- Add the out-of-stock product to the shopping cart.

- Proceed to checkout and complete the payment process.

- Confirm that the payment is successfully processed, and the customer is able to purchase the out-of-stock product.

Expected Behavior:

- The product should display an "Out of Stock" message and prevent the user from adding the item to the cart.
- The "Add to Cart" button should be disabled for out-of-stock products.
- The checkout process should not allow a purchase for items that are unavailable.
- A message should notify the user that the item is out of stock and cannot be purchased.

Actual Behavior:

- The product display "out of stock", but the customer is still able to add the product to the cart.
- The customer can proceed to checkout and complete the payment for the out-of-stock item.
- No notification is provided that the item is unavailable during the checkout process.

Screenshot :
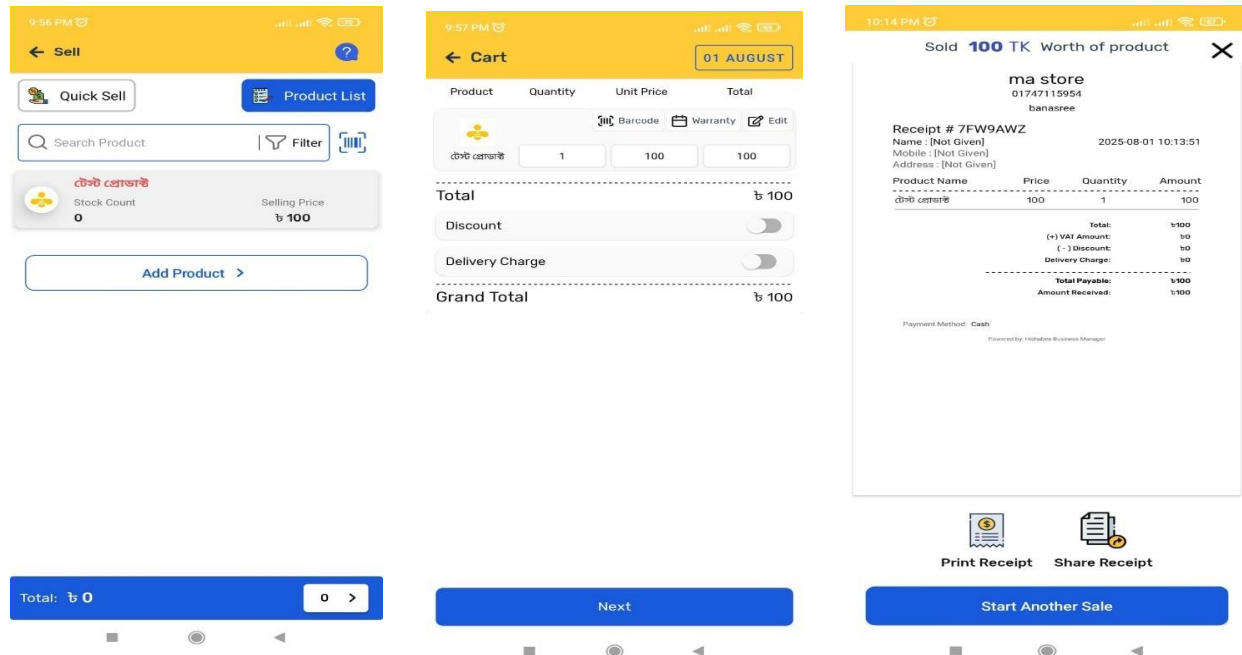
Bonus Tip

➕ How would they use this feature daily ?

Daily Usage of this E-Commerce Website Features: (Hishabee)

Customers: Browse products, add items to the cart, complete purchases, track orders, and interact with customer support for returns or inquiries.

Shop Owners: Manage inventory, process orders, update product listings, handle customer support, run promotions, and review sales reports.

In short, customers use the site for shopping and support, while shop owners focus on order fulfillment, inventory management, and sales optimization.

⬦ What can break ?

For an e-commerce website, several things can break, affecting the user experience, business operations, and revenue generation. Here are some common areas where things might go wrong for this apps/website(Hishabee):

- ✓ Cart & Checkout Process
- ✓ Payment Gateway Integration
- ✓ Product Pages
- ✓ Inventory Management System
- ✓ Order Confirmation & Shipping
- ✓ Customer Support System

⬦ What would frustrate or confuse them ?

I found a bug in the Hishabee app where out-of-stock products can still be purchased, which could confuse and frustrate both customers and shop owners.some example is goven below:

For Shop Owners:

- ✓ Overselling & Operational Chaos
- ✓ Negative Customer Experience
- ✓ Inventory Discrepancy
- ✓ Revenue Loss

For Customers:

- ✓ Misleading Information
- ✓ Disappointment & Inconvenience
- ✓ Loss of Trust
- ✓ Unnecessary Time Spent
- ✓ Frustration with the Checkout Process