PROJECT DOCUMENT

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Project Title:
SnapShop-Jewellery Store Management System

TEST CASES

Test Case Fields:
• Test Case ID
• Test Title
• Related Requirement ID
• Pre-Conditions
• Test Steps
• Test Data
• Expected Result
• Actual Result
• Status (Pass/Fail)
• Remarks

1. UNIT TESTING – TEST CASES

Test Case 1: Navbar Link Redirection
Test Case ID: TC-UNIT-01
Test Title: Verify Navbar category links
Related Requirement ID: FR-01
Pre-Conditions:
Website homepage loaded
Test Steps:
• Click on Gold category
• Click on Silver category
• Click on Men category
Test Data: Navbar links
Expected Result: User redirected to correct category pages
Actual Result: User redirected correctly
Status: Pass
Remarks: None

Test Case 2: Logo Redirection
Test Case ID: TC-UNIT-02
Test Title: Verify SnapShop logo redirect
Related Requirement ID: FR-01
Pre-Conditions: Any page opened

Test Steps:Click on SnapShop logo
Test Data: Logo click
Expected Result: Homepage should open
Actual Result: Homepage opened successfully
Status: Pass
Remarks: None

Test Case 3: Sticky Navbar
Test Case ID: TC-UNIT-03
Test Title: Verify sticky navbar behavior
Related Requirement ID: FR-01
Pre-Conditions: Scrollable page loaded
Test Steps: Scroll down the page
Test Data: Page scroll
Expected Result: Navbar remains fixed at top
Actual Result: Navbar remains fixed
Status: Pass
Remarks: None

Test Case 4: Page Padding Validation
Test Case ID: TC-UNIT-04
Test Title: Verify global page padding
Related Requirement ID: FR-01
Pre-Conditions: Navbar visible
Test Steps: Inspectt page layout
Test Data: Page UI
Expected Result: 180px top padding maintained
Actual Result: Padding correctly applied
Status: Pass
Remarks: None

Test Case 5: Footer Information Links
Test Case ID: TC-UNIT-05
Test Title: Verify footer information links
Related Requirement ID: FR-01
Pre-Conditions: Footer visible
Test Steps:

1.Click About Us link
2. Click Terms link
3.Click Refund Policy link
Test Data: Footer links
Expected Result: Correct pages open
Actual Result: Pages opened correctly
Status: Pass
Remarks: None

Test Case 6: Search Bar Toggle
Test Case ID: TC-UNIT-06
Test Title: Verify search bar toggle functionality
Related Requirement ID: FR-01
Pre-Conditions: Navbar visible
Test Steps:

1.Click search icon
2..Click again to hide
Test Data: Search icon
Expected Result: Search bar toggles visibility
Actual Result: Search bar toggled successfully
Status: Pass
Remarks: None

Test Case 7: Cart Navigation
Test Case ID: TC-UNIT-07
Test Title: Verify cart page navigation
Related Requirement ID: FR-01
Pre-Conditions: Cart icon visible
Test Steps:Click cart icon
Test Data: Cart icon
Expected Result: User navigated to cart page
Actual Result: Cart page opened
Status: Pass
Remarks: None

BLACK BOX TESTING – EQUIVALENCE PARTITIONING

Test Case 8: Search Keyword Input
Test Case ID: TC-BB-01
Test Title: Verify keyword search
Related Requirement ID: FR-02
Pre-Conditions: Products available
Test Steps:

Enter valid product name
Click search
Test Data: "Gold Ring"
Expected Result: Matching product displayed
Actual Result: Product displayed
Status: Fail
Remarks: Valid equivalence class

Test Case 9: Invalid Search Input
Test Case ID: TC-BB-02
Test Title: Verify invalid search input

Related Requirement ID: FR-02
Pre-Conditions: Search bar visible
Test Steps:Enter random text
Test Data: "xyz123"
Expected Result: No results found message
Actual Result: Message displayed
Status: Pass
Remarks: Invalid equivalence class handled correctly

BOUNDARY VALUE ANALYSIS – TEST CASES

Test Case 10: Empty Search Submission
Test Case ID: TC-BVA-01
Test Title: Verify empty search behavior
Related Requirement ID: FR-03
Pre-Conditions: Search bar empty
Test Steps:

       Click search without input
       Test Data: Empty
       Expected Result: All products displayed
       Actual Result: All products displayed
       Status: Pass
       Remarks: Lower boundary accepted

Test Case 11: Minimum Boundary Value For Order Quantity
Test Case ID: TC-BVA-02
Test Title: Verify cart quantity increment
Related Requirement ID: FR-03
Pre-Conditions: Item already in cart
Test Steps:Add same item again
Test Data: Duplicate item
Expected Result: Quantity increases
Actual Result: Quantity updated
Status: Pass
Remarks: Upper boundary handled

WHITE BOX TESTING – BRANCH COVERAGE

Test Case 12: TRUE Branch Execution
Test Case ID: TC-WB-01
Test Title: Verify cart item exists logic
Related Requirement ID: FR-04
Pre-Conditions: Item already in cart
Test Steps:

Add same item
Test Data: Existing item
Expected Result: Quantity increases
Actual Result: Quantity increases
Status: Pass
Remarks: TRUE branch covered

Test Case 13: FALSE Branch Execution
Test Case ID: TC-WB-02
Test Title: Verify new cart item addition
Related Requirement ID: FR-04
Pre-Conditions: Item not in cart
Test Steps:

Add new item
Test Data: New Item
Expected Result: Item added to cart
Actual Result: Item added
Status: Pass
Remarks: FALSE branch covered

INTEGRATION TESTING

Test Case 14: Add to Cart Integration
Test Case ID: TC-INT-01
Test Title: Verify cart updates from product page
Related Requirement ID: FR-05
Pre-Conditions: Product displayed
Test Steps:

Click Add to Cart
Test Data: Product item
Expected Result: Cart updated
Actual Result: Cart updated successfully
Status: Pass
Remarks: Integration successful

SYSTEM TESTING

Test Case 15: Full Checkout Flow
Test Case ID: TC-SYS-01
Test Title: Verify complete checkout cycle
Pre-Conditions: Cart has items
Test Steps:Checkout

Enter details
Place order
Test Data: Valid customer data
Expected Result: Order success page displayed
Actual Result: Order completed
Status: Pass
Remarks: System stable

Test Case 16: Verify Payment Gateway Integration
Test Case ID: TC-SYS-02
Test Title: Verify successful payment processing
Related Requirement ID: FR-06
Pre-Conditions: Checkout page open
Test Steps:

Enter payment details

Submit payment
Test Data: Valid credit/debit card
Expected Result: Payment completed, confirmation displayed
Actual Result: Payment completed successfully
Status: Pass
Remarks: Payment gateway functioning correctly

Test Case 17: Verify Order Confirmation Email
Test Case ID: TC-SYS-03
Test Title: Check order confirmation email delivery
Related Requirement ID: FR-07
Pre-Conditions: Order placed successfully
Test Steps:

Place order
Check registered email
Test Data: Customer email address
Expected Result: Email contains order details
Actual Result: Email received successfully
Status: Pass
Remarks: Email notification working

Test Case 18: Verify Product Stock Update
Test Case ID: TC-SYS-04
Test Title: Check stock decrement after order
Related Requirement ID: FR-08
Pre-Conditions: Product in stock
Test Steps:

Place order for product

Check stock quantity
Test Data: Product quantity 5
Expected Result: Stock reduced by ordered quantity
Actual Result: Stock updated correctly
Status: Pass
Remarks: Inventory updated successfully

Test Case 19: Verify Product Out-of-Stock Handling
Test Case ID: TC-SYS-05
Test Title: Check behavior when product is out of stock
Related Requirement ID: FR-08
Pre-Conditions: Product stock = 0
Test Steps:

Attempt to order product
Test Data: Product quantity 1
Expected Result: Alert "Out of Stock" displayed
Actual Result: Out of Stock alert displayed
Status: Pass
Remarks: Out-of-stock scenario handled

Test Case 20: Verify Order History Page
Test Case ID: TC-SYS-06
Test Title: Check display of past orders
Related Requirement ID: FR-09
Pre-Conditions: User logged in
Test Steps:

Open order history page
Test Data: Existing orders
Expected Result: All previous orders listed correctly
Actual Result: Order history displayed successfully
Status: Pass
Remarks: Order history page working

Test Case 21: Verify Product Details Page
Test Case ID: TC-SYS-07
Test Title: Check product details display
Related Requirement ID: FR-10
Pre-Conditions: Product exists
Test Steps:

Click on product
Test Data: Product ID
Expected Result: Product name, price, image, and description displayed
Actual Result: Product details displayed correctly
Status: Pass
Remarks: Product detail page functioning

Test Case 22: Verify Add to Wishlist Functionality
Test Case ID: TC-SYS-08
Test Title: Add product to wishlist
Related Requirement ID: FR-11
Pre-Conditions: User logged in
Test Steps:

Click "Add to Wishlist"
Test Data: Product item
Expected Result: Product added to wishlist
Actual Result: Added successfully
Status: Pass
Remarks: Wishlist working

Test Case 23: Verify Remove from Wishlist
Test Case ID: TC-SYS-09
Test Title: Remove product from wishlist
Related Requirement ID: FR-11
Pre-Conditions: Product in wishlist
Test Steps:

Click "Remove"
Test Data: Wishlist product
Expected Result: Product removed from wishlist
Actual Result: Removed successfully
Status: Pass
Remarks: Wishlist remove feature working

Test Case 24: Verify Coupon Code Application
Test Case ID: TC-SYS-10
Test Title: Apply discount coupon at checkout
Related Requirement ID: FR-12
Pre-Conditions: Valid coupon exists
Test Steps:

Enter coupon code

Click apply
Test Data: Coupon "SAVE10"

Expected Result: 10% discount applied
Actual Result: Discount applied correctly
Status: Pass
Remarks: Coupon functionality verified

Test Case 25: Verify Invalid Coupon Handling

Test Case ID: TC-SYS-11
Test Title: Apply invalid coupon code
Related Requirement ID: FR-12
Pre-Conditions: Coupon does not exist
Test Steps:

Enter invalid code
Click apply
Test Data: Coupon "INVALID123"
Expected Result: Error message displayed
Actual Result: Invalid coupon message shown
Status: Pass
Remarks: Handled invalid coupon

Test Case 26: Verify Responsive Layout

Test Case ID: TC-SYS-12
Test Title: Check UI responsiveness on mobile
Related Requirement ID: FR-13
Pre-Conditions: Access from mobile device
Test Steps:

Open homepage

Check page layout
Test Data: Mobile screen
Expected Result: Layout adapts correctly
Actual Result: Layout responsive
Status: Pass
Remarks: Mobile responsiveness verified

Test Case 27: Verify Social Media Links

Test Case ID: TC-SYS-13
Test Title: Check footer social links
Related Requirement ID: FR-14
Pre-Conditions: Footer visible
Test Steps:

Click Facebook/Twitter/Instagram links
Test Data: Footer links
Expected Result: Opens respective social media pages
Actual Result: Links working correctly
Status: Pass
Remarks: Social links functional

Test Case 28: Verify Contact Us Form Submission
Test Case ID: TC-SYS-14
Test Title: Submit Contact Us form
Related Requirement ID: FR-15
Pre-Conditions: Contact page open
Test Steps:

Fill form

Click submit
Test Data: Name, email, message
Expected Result: Form submitted successfully
Actual Result: Form submitted
Status: Pass
Remarks: Contact form working

Test Case 29: Verify Newsletter Subscription
Test Case ID: TC-SYS-15
Test Title: Subscribe to newsletter
Related Requirement ID: FR-16
Pre-Conditions: Homepage loaded
Test Steps:

Enter email

Click subscribe
Test Data: Valid email address
Expected Result: Subscription confirmation shown
Actual Result: Email subscribed successfully
Status: Pass
Remarks: Newsletter working

Test Case 30: Verify Logout Functionality
Test Case ID: TC-SYS-16
Test Title: User logout process
Related Requirement ID: FR-17
Pre-Conditions: User logged in
Test Steps:

Click logout
Test Data: Logged-in session
Expected Result: User redirected to homepage
Actual Result: User logged out successfully
Status: Pass
Remarks: Logout working

REGRESSION TESTING

Test Case 31: Cart After Update
Test Case ID: TC-REG-01
Test Title: Verify cart functionality after update
Pre-Conditions: Application updated
Test Steps:

Add item to cart
Test Data: Product
Expected Result: Cart works normally
Actual Result: Cart works correctly
Status: Pass
Remarks: No regression defects found

Test Case 32: Custom 404 Page
Test Case ID: TC-REG-02
Test Title: Verify 404 page after update
Pre-Conditions: Invalid URL entered
Test Steps:

Enter wrong URL
Test Data: /xyz
Expected Result: Custom 404 page shown
Actual Result: Page displayed correctly
Status: Pass
Remarks: No regression defects found