Design of test scenarios and cases for an e-commerce website

1. Login:

   Scenario:

   - Scenario 1: Successful Login

   - Scenario 2: Incorrect Credentials

   - Scenario 3: Account Lockout after multiple failed login attempts

   - Scenario 4: Forgotten Password Recovery

2. Search a product:

   Scenario:

   - Scenario 1: Search for a specific product and find it successfully

   - Scenario 2: Search for a non-existent product and verify appropriate feedback

   - Scenario 3: Search for a product with special characters and validate the search functionality

3. Filter according to the price (low to high):

   Scenario:

   - Scenario 1: Apply the "Low to High" filter and verify products are displayed accordingly

   - Scenario 2: Apply the "High to Low" filter and verify products are displayed accordingly

   - Scenario 3: Apply multiple filters simultaneously and ensure correct results are shown

4. Add the item:

   Scenario:

   - Scenario 1: Add a single item to the cart successfully

   - Scenario 2: Add multiple quantities of an item to the cart

   - Scenario 3: Verify the cart count is updated after adding items

5. Update the item numbers:

Scenario:

 - Scenario 1: Increase the quantity of an item in the cart

 - Scenario 2: Decrease the quantity of an item in the cart

 - Scenario 3: Remove an item from the cart

 - Scenario 4: Verify the cart subtotal and total are updated correctly

6. Checkout (excluding payment):

 Scenario:

 - Scenario 1: Proceed to checkout from the cart page

 - Scenario 2: Verify the correct items are displayed on the checkout page

 - Scenario 3: Verify the shipping address and delivery options

 - Scenario 4: Apply a discount code and verify the total is updated

 - Scenario 5: Verify the order summary and selected options before finalizing the order

Test Case ID	Test Scenario	Test Steps	Test Data	Expected Result	Actual Result	Status
TC001	Login - Successful	1. Enter valid username and password.	Valid username and password	User is successfully logged in		
TC002	Login- Incorrect	1.Enter invalid username and password	Invalid username and password	User receives an error message indicating incorrect details.		
TC003	Login- Account Lockout	1.Enter incorrect password multiple times.	Incorrect Password (more than threshold)	User's account gets locked after the specified attempts.		
TC004	Login- Forgotten Password	1. Click on "Forgot Password" link.	Registered email address	User receives an email with a password reset link.		

TC005	Search-Valid	1. Enter a valid product name in the search bar.	Valid product name	Relevant search results are displayed.		
TC006	Search - Non-existent	1. Enter a non-existent product name in search.	Non-existent product name	No search results are displayed.		
TC007	Search - Special Characters	1. Enter a product name with special characters.	Product name with special characters	Relevant search results are displayed.		
TC008	Filter - Low to High	1. Apply "Low to High" filter on the product list.	None	Products are sorted from low to high based on the price.		
TC009	Filter - High to Low	1. Apply "High to Low" filter on the product list.	None	Products are sorted from high to low based on the price.		
TC010	Filter - Multiple Filters	1.Apply multiple filters simultaneously (e.g., price range, brand).	Various filter criteria	Products displayed meet all the selected filter criteria.		
TC0011	Add Item - Single	1.Click on "Add to Cart" for a specific item.	Product details	Item is successfully added to the cart.		
TC0012	Add Item - Multiple	1. Increase the quantity of an item and click "Add to Cart".	Product details	Specified quantity of the item is added to the cart.		
TC0013	Add Item - Cart Count	1. Add multiple items to the cart.	Product details	Cart count is updated to reflect the total number of items.		
TC0014	Update Item Quantity - Increase	1. Go to the cart page. 2. Increase the quantity of an item.	Product details	Item quantity in the cart is increased by the specified amount.		

TC0015	Update Item Quantity – Decrease	1. Go to the cart page. 2. Decrease the quantity of an item.	Product details	Item quantity in the cart is decreased by the specified amount.		
TC0016	Update Item Quantity - Remove	1. Go to the cart page. 2. Remove the quantity of an item.	Product details	Item is successfully removed from the cart.		
TC0017	Update Item Quantity - Cart Subtotal	1. Go to the cart page. 2. Update item quantity. 3. Verify cart subtotal.	Product details	Cart subtotal is updated based on the updated item quantities.		
TC0018	Checkout – Proceed	1. Go to the cart page. 2. Click on "Proceed to Checkout".	Cart items and details	1. Go to the cart page. 2. Click on "Proceed to Checkout".		
TC0019	Checkout – Verify Items	1. Go to the checkout page. 2. Verify the displayed items.	Cart items and details	The items displayed on the checkout page match the cart items.		
TC0020	Checkout – Shipping	1. Go to the checkout page. 2. Verify shipping address and delivery options.	Shipping details	The displayed shipping address and delivery options are correct.		
TC0021	Checkout – Apply Discount	1. Go to the checkout page. 2. Apply a discount code.	Discount code	The discount is applied, and the total amount is updated accordingly.		
TC0022	Checkout – Order Summary	1.Go to the checkout page. 2. Verify the order summary and selected options.	Order details	The displayed order summary and selected options are correct.		

The "Actual Result" column should be filled after executing each test case, and the "Status" column should be updated based on whether the test case passed or failed.