# Snapdeal Test Case Documentation

These test cases cover a range of functionalities and validations that can be automated for the given Snapdeal search page. I have implemented these using Java, Selenium WebDriver, Maven, TestNG and Extent Reports.

## Test Case 1: Verify Search Results for "Tshirt"

**Objective:** Verify that the search results displayed match the query "Tshirt"

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Verify the page title contains the keyword "Tshirt"
3. Verify that search results are displayed.
4. Verify that each search result contains either "Tshirt" in its title or description.

**Expected Result:**

* Search results should be displayed with items relevant to "Tshirt"

## Test Case 2.1: Verify Sorting Functionality by Price (Low to High)

**Objective:** Verify that the search results are sorted by price from low to high.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Select the "Price Low to High" sorting option from the sort dropdown.
4. Verify that the search results are sorted by price in ascending order.
5. Manually inspect the first few results to ensure they are sorted from the lowest to the highest price.

**Expected Result:**

* The search results should be displayed with prices sorted from low to high.

## Test Case 2.2: Verify Sorting Functionality by Price (High to Low)

**Objective:** Verify that the search results are sorted by price from high to low.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Select the "Price High to Low" sorting option from the sort dropdown.
4. Verify that the search results are sorted by price in descending order.
5. Manually inspect the first few results to ensure they are sorted from the highest to the lowest price.

**Expected Result:**

* The search results should be displayed with prices sorted from high to low.

## Test Case 3: Verify Brand Filter Functionality

**Objective:** Verify that the brand filter functionality works correctly, displaying only products from the selected brand.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Apply the brand filter using the brand name specified in the configuration file.
4. Verify that all displayed search results are from the selected brand.
5. Manually inspect the displayed products to ensure they all belong to the chosen brand.

**Expected Result:**

* All search results should be filtered to show only products from the selected brand.

## Test Case 4: Verify Price Filter Functionality

**Objective:** Verify that the price filter functionality works correctly, displaying only products within the specified price range.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Apply the price filter using the minimum and maximum price specified in the configuration file.
4. Verify that all displayed search results have prices within the specified range.
5. Manually inspect a few products to ensure their prices are within the given range.

**Expected Result:**

* All search results should be filtered to show products within the specified price range.

## Test Case 5: Verify Product Image Display

**Objective:** Verify that product images are displayed for all items in the search results.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Validate that all product images are displayed in the search results.
4. Manually inspect a few search results to ensure that images are properly displayed.

**Expected Result:**

* All search results should have visible product images.

## Test Case 6: Verify Add to Cart Functionality

**Objective:** Verify that a product can be successfully added to the cart from the search results.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Locate and click on the first product from the search results to view its details.
4. Switch to the newly opened window displaying the product details.
5. Add the product to the cart in the new window.
6. Verify that the product has been successfully added to the cart.

**Expected Result:**

* The product should be added to the cart successfully, and this action should be confirmed by the application.

## Test Case 7: Verify Remove from Cart Functionality

**Objective:** Verify that a product can be successfully removed from the cart.

**Steps:**

1. Open the browser and navigate to the provided Snapdeal search URL.
2. Perform a search for the product specified in the configuration file.
3. Locate and click on the first product from the search results to view its details.
4. Switch to the newly opened window displaying the product details.
5. Add the product to the cart in the new window.
6. Verify that the product has been successfully added to the cart.
7. Remove the product from the cart.
8. Verify that the product has been successfully removed from the cart by checking that the cart is empty.

**Expected Result:**

* The product should be successfully removed from the cart, and the cart should be empty after removal.