Automation Testing Project NopCommerce

(Selenium + TestNG)



Automate the following **functionalities** on the *NopCommerce* demo website (https://demo.nopcommerce.com/) using *Selenium WebDriver*, *TestNG*, and *Page Object Model (POM)*.

✓ Scenario #1: Registration

Test Case: Valid Register

User can register a new account successfully.

Steps:

- 1. Navigate to the Register Page.
- 2. Select gender type.
- 3. Enter first name = automation and last name = tester.
- 4. Enter Date of Birth: Day, Month, Year.
- 5. Enter email = test@example.com.
- 6. Enter and confirm password = P@ssw0rd.
- 7. Click Register.
- 8. Assert:
 - o Registration success message is displayed.
 - Message text = "Your registration completed"
 - Message color = rgba(76, 177, 124, 1)

Scenario #2: Login

Test Case #1: Valid Login

Steps:

- 1. Navigate to the Login page.
- 2. Enter a valid email: test@example.com and password: P@ssw0rd
- 3. Click the Login button.
- 4. Assert the following using **SoftAssert**:
 - The current URL is https://demo.nopcommerce.com/
 - The "My account" tab is displayed

Call assertAll() at the end.

Test Case #2: Invalid Login

Steps:

- 1. Navigate to the Login page.
- 2. Enter an invalid email: wrong@example.com and password: P@ssw0rd
- 3. Click the Login button.
- 4. Assert the following using **SoftAssert**:
 - The error message contains "Login was unsuccessful."
 - o The color of the error message is red (Hex: #e4434b)

⚠ Note: The output color from getCssValue("color") is in RGBA format. Convert it to Hex using the following utility:

import org.openqa.selenium.support.Color;

Color.fromString("rgba(228, 67, 75, 1)").asHex();

✓ Scenario #3: Currencies

Test Case: Verify Euro Symbol (€) Appears for All Products

Steps:

- 1. From the **currency dropdown list** at the top left of the homepage, select **"Euro"**.
- 2. Use **hard assertions** to verify that the **Euro symbol** (€) is displayed for **each of the 4 products shown on the homepage**.
- ★ Details for Step 2:
 - Use driver.findElements() to capture all product price elements on the homepage.
 - Iterate through the list using a for loop:
 - o Use .get(i).getText() to get each product price as a string.
 - Store the value in a variable.
 - Use Assert.assertTrue(variable.contains("€")) to verify the symbol is present.

Scenario #4: Search

Test Case #1: Search Using Product Name

Implement a TestNG test that loops over a set of product names:

book, laptop, nike

Steps:

- 1. Enter each product name into the search input box and click the Search button.
- 2. Use **soft assertions** to verify the following for each product:
 - o The current URL contains: <a href="https://demo.nopcommerce.com/search?q="https://demo.nopcom/search?q="https://demo.nopcom/search?q="https://demo.nopcom/search?q="https://demo.nopcom/search?q="https://demo.nopcom/search?q="https://demo.nopcom/search
 - The search results section is populated:
 - Use findElements() and size() to count the number of search results.
 - Loop over each result and use .getText().toLowerCase() to verify it contains the search word.

Call assertAll() at the end of each search execution.

Test Case #2: Search Using Product SKU

Loop over a list of SKUs:

SCI_FAITH, APPLE_CAM, SF_PRO_11

SKU = product serial number (example: AP_MBP_13 for MacBook Pro)

Steps:

- 1. Enter each SKU into the search input box and click the Search button.
- 2. Click on the product link from the search results.
- 3. On the product details page, use **hard assertions** to verify:
 - The SKU shown on the product page **contains the searched SKU**.

You should pass each SKU dynamically and assert it accurately.

✓ Scenario #5: Home Sliders

Test Case #1: Validate Nokia Lumia 1020 Slider

Steps:

- 1. Wait for the **first slider** to become visible and clickable.
- 2. Click the first slider.
- 3. Wait for the page to load using **explicit wait** and check the current URL.
- 4. Use a **hard assertion** to verify that the URL is equal to: https://demo.nopcommerce.com/nokia-lumia-1020

▲ **Note**: The actual result is that the URL remains https://demo.nopcommerce.com/, which is incorrect.

This means the test should **fail** and be considered a valid **UI bug** detection.

Test Case #2: Validate iPhone 6 Slider

Steps:

- 1. Wait for the **second slider** to become visible and clickable.
- 2. Click the second slider.
- 3. Wait for the page to load using **explicit wait** and check the current URL.
- 4. Use a **hard assertion** to verify that the URL is equal to: https://demo.nopcommerce.com/iphone-6

Again, the actual behavior keeps the user at https://demo.nopcommerce.com/, so the automation should **fail** this test as well and flag it as a **defect**.

✓ Scenario #6: Follow Us

Test Case #1: Verify Facebook link

- Click on the Facebook icon.
- Wait for the second tab to open.
- Switch to the new tab.
- Assert the URL is https://www.facebook.com/nopCommerce.

Test Case #2: Verify Twitter link

- Click on the Twitter icon.
- Assert the new tab opens with https://twitter.com/nopCommerce.

Test Case #3: Verify RSS link

- Click on the RSS icon.
- Expected URL: https://demo.nopcommerce.com/new-online-store-is-open.
- **Note:** This test should **fail**, as the actual URL is https://demo.nopcommerce.com/news/rss/1.

Test Case #4: Verify YouTube link

- Click on the YouTube icon.
- Assert the new tab URL is https://www.youtube.com/user/nopCommerce.

✓ Scenario #7: Wishlist

Test Case #1: Add item to wishlist and verify success message

- 1. Open the website: https://demo.nopcommerce.com/
- 2. Locate the product: **HTC One M8 Android L 5.0 Lollipop** (it is one of the 4 products in the center of the home page).
- 3. Click on the 💚 (wishlist) button under that product.
- 4. After clicking, a green success message should appear:

"The product has been added to your wishlist"

- 5. Use **soft assertions** to validate:
 - o The success message is displayed
 - o The background color of the message is green

Tip: If you're validating color in HEX format, you may need to **convert RGBA to HEX** using utility functions.

Test Case #2: Validate item appears in the wishlist

- 1. On the same website, click the 💙 button again for the same product.
- 2. Wait until the success message disappears (use **explicit wait** with ExpectedConditions.invisibilityOfElement...).
- 3. Then, click the **Wishlist** tab at the top right (beside "Register", "Log in").
- 4. From the Wishlist page:
 - Get the Qty value for the item added.
 - Assert that it is greater than 0 (indicating the item was successfully added).
- *Tip:* Decide if you will use:
 - getText() to extract the number
 - o Or getAttribute("value") if it's in an input box

Route Jesting Jeam <u>f</u>ngr. Ahmad Abdel-Hafeez

 \circ Or getCssValue() if the value is set via style

