QA Automation

Task: Search and Verify Product Details using Automation

Description:

The candidate should automate the search and verification of product details on the Amazon website using Selenium WebDriver.

Steps:

Open the Amazon homepage (https://www.amazon.com/).

Enter a specific product name in the search bar (e.g., "iPhone 12").

Click on the search button.

Verify that the search results page is displayed with relevant products.

Select a specific product from the search results page (e.g., the first product listed).

Verify that the product details page is displayed with accurate information.

Extract and validate the following details:

a. Product title

b. Product price

c. Product rating

d. Product description (if available)

Take a screenshot of the product details page.

Capture the URL of the product details page.

Navigate back to the search results page.

Repeat steps 5-10 for a different product (choose another product from the search results page).

Compare the details of the two products and validate if they are different.

Capture a screenshot of the second product details page.

Provide a test report summarizing the execution status, any issues encountered, and a summary of the extracted product details.

Requirements:

The candidate should use Selenium WebDriver using programming language java to automate the steps mentioned above.

The candidate should include proper assertions and validations to ensure the expected behaviour at each step.

The candidate should handle any necessary waits or delays to synchronize with page loading and element visibility.

The candidate should organize the code using appropriate design patterns and best practices (e.g., Page Object Model).

The candidate should provide clear and concise comments explaining their code.

The candidate should provide a brief test report summarizing the execution status and any issues encountered during the automation process and the test scripts should provide relevant log messages and handle any exceptions or errors encountered during the execution.

The candidate should handle any necessary page navigation, switching between windows/tabs, and interactions with form elements.

This task will assess the candidate's ability to navigate and interact with web elements, extract and validate product details, handle multiple scenarios, and demonstrate their understanding of test automation principles and best practices using Selenium WebDriver.