

Write Up: Automated Laptop Purchase with Java Selenium

Introduction:

The following project is an automated script written in Java using Selenium WebDriver to simulate a user's interaction on the Amazon.in website. The script opens a browser, maximizes the window, and navigates to the Amazon.in homepage. It then performs a series of actions such as selecting the 'Laptops' category, hovering over the 'Laptops & Accessories' menu, clicking on the 'Dell' submenu, selecting the first available laptop, switching focus to a new tab, clicking on the 'Buy Now' button, and verifying the presence of the 'Sign in' text on the last page. Finally, the script closes the browser.

Technologies Used:

- Java: Programming language used to write the script.
- Selenium WebDriver: A powerful automation tool used for web testing and automating browser interactions.
- ChromeDriver: A separate executable that enables communication between the Selenium WebDriver and the Chrome browser.

Project Steps:

1. Set up the environment by downloading and configuring the Selenium WebDriver for Java and the ChromeDriver executable.
2. Create a new Java class and import the necessary Selenium libraries.
3. Implement the main method and set the path to the ChromeDriver executable.
4. Instantiate a new ChromeDriver object and maximize the browser window.
5. Use the WebDriver instance to navigate to the Amazon.in website.
6. Locate and click on the 'Laptops' link in the navigation bar.
7. Use the Actions class to hover over the 'Laptops & Accessories' menu.
8. Locate and click on the 'dell' submenu.
9. Locate and click on the first available laptop.
10. Switch the focus to the new tab opened by the previous step.
11. Locate and click on the 'Buy Now' button.
12. Locate and verify the presence of the 'Sign in' text on the last page.
13. Output the result of the verification.
14. Quit the browser.