GitHub Url:

<https://github.com/Ankithachainpur/Mphasis-Simplilearn-project.git>

Automate an E-Commerce Web Application

**Algorithm:**

Sprint 1:

# Setup the testing environment:

* + InstallthenecessarydriversforChromeandEdgebrowsers.
  + SetuptheMavenprojectinEclipseIDEwithrequireddependencies(Selenium WebDriver, TestNG, etc.).
  + Importtherequiredlibrariesandmodules.

1. **DefinethetestmethodsforChromeandEdgebrowsers,annotatedwith@Test:**● LaunchChrome()andLaunchEdge()aresetupmethodstopausetheexecutionfor a few seconds to allow browsers to launch.

# Create the Automation Flipkart class with test methods:

* + f()methodautomatesthetestscenarioontheChrome browser.
  + firefox()methodautomatesthetestscenarioontheEdge browser.

# Inside the f()method:

* + InitializeChromeDriverandmaximizethebrowserwindow.
  + NavigatetotheFlipkarthomepage(<https://www.flipkart.com/>).
  + Call the pageLoadtime() method to determine the page load time with performancetesting and capture a screenshot.
  + Closethelogin/signuppopupbyclickingontheclosebuttonandcapturea screenshot.
  + Clickonthe"Mobile"categoryandcapturea screenshot.
  + CallthecheckImageLoaded()methodtoverifyiftheimagesareloadedand displayed on the screen.
  + CalltheScrollHeight()methodtoscrolldownthepageandloadadditionalproducts.
  + Captureascreenshotofthepageafter scrolling.

# Sprint 2:

# 5. Inside the firefox()method:

* + InitializeEdgeDriverandmaximizethebrowserwindow.
  + NavigatetotheFlipkarthomepage(<https://www.flipkart.com/>).
  + Call the pageLoadtime() method to determine the page load time with performancetesting and capture a screenshot.
  + Closethelogin/signuppopupbyclickingontheclosebuttonandcapturea screenshot.
  + Clickonthe"Mobile"categoryandcapturea screenshot.
  + CallthecheckImageLoaded()methodtoverifyiftheimagesareloadedand displayed on the screen.
  + CalltheScrollHeight()methodtoscrolldownthepageandloadadditionalproducts.
  + Captureascreenshotofthepageafter scrolling.

# Define utility methods:

* 1. pageLoadtime()measuresthepageloadtimeandcapturesascreenshot.
  2. checkImageLoaded()searchesforthe"iPhone13"product,clicksonit,and checksif the product image is loaded and visible.
  3. ScrollHeight()scrollsdownthepageuntiltheendtoloadadditionalproducts.

# The screenshot() method captures and saves a screenshot.

1. **Execute the test cases using TestNG:**
   1. ConfiguretheTestNGXMLfiletoincludethetestclassesanddefinetestsuite configurations.
   2. RuntheTestNGtesttoexecutethetestcasesonbothChromeandEdgebrowsers