The code for this project is hosted <https://github.com/Prateekdu/Phase-1-Practice-Project.git>

Phase 5🡪Automate an E-Commerce Web Application

The project is developed by Prateek Dubey.

**ChromeAutomation.java**

**package** com.test;

**import** java.time.Duration;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.\*;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.FluentWait;

**import** org.openqa.selenium.support.ui.Wait;

**public** **class** ChromeAutomation {

**public** **static** **void** main(String[] args) {

System.***out***.println("Automation Starts!...\nInitializing Driver");

System.***out***.println();

// Step 1: Declare a path and set property for google chrome driver

String path = "C:\\Users\\Prateek\\Phase 5 Workspace\\chromedriver\_win32\\chromedriver.exe";

System.*setProperty*("webdriver.chrome.driver", path);

// Step 2: Initialize the webdriver

WebDriver driver = **new** ChromeDriver();

// Step3: give the base url

String url = "https://www.flipkart.com/";

driver.get(url);

// Give time to page to load fully

**try** {

Thread.*sleep*(3000);

WebElement cross = driver.findElement(By.*cssSelector*("body > div.\_2Sn47c > div > div > button"));

cross.click();

} **catch** (InterruptedException e) {

e.printStackTrace();

}

// wait until webpage is loaded completely

// Using FluentWait because it is Dynamic

Wait<WebDriver> wait = **new** FluentWait<WebDriver>(driver).withTimeout(Duration.*ofSeconds*(60))

.pollingEvery(Duration.*ofSeconds*(60)).ignoring(NoSuchElementException.**class**);

// Maximize Window

driver.manage().window().maximize();

// Sending Querry as "iphone 13"

WebElement q = driver.findElement(By.*name*("q"));

q.sendKeys("iphone 13");

// Clicking Search Button

WebElement button = driver.findElement(By.*cssSelector*(

"#container > div > div.\_1kfTjk > div.\_1rH5Jn > div.\_2Xfa2\_ > div.\_1cmsER > form > div > button > svg"));

button.click();

// Again wait for atleast 5 seconds, so that the page is fully loaded

**try** {

Thread.*sleep*(5000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

// Scroll down to an item

// Scrolling is done through java script querry

WebElement item = driver.findElement(

By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[11]/div/div/div/a/div[2]/div[1]/div[1]"));

((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView();", item);

// Printing Result of an item to the console...

System.***out***.println(item.getText());

// Scrolling to bottom of the page

// Again wait for atleast 5 seconds

**try** {

Thread.*sleep*(5000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

((JavascriptExecutor) driver).executeScript("window.scrollBy(0,document.body.scrollHeight)");

System.***out***.println();

System.***out***.println("Automation Ends!...\nClosing Driver...");

}

}

**FlipkartLogin.java**

**package** com.simplilearn.demo;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.Test;

**import** org.testng.AssertJUnit;

**import** org.testng.annotations.Test;

**import** org.testng.asserts.SoftAssert;

**import** java.time.Duration;

**import** java.util.concurrent.TimeUnit;

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.JavascriptExecutor;

**import** org.openqa.selenium.NoSuchElementException;

**import** org.openqa.selenium.WebDriver;

**import** org.openqa.selenium.WebElement;

**import** org.openqa.selenium.chrome.ChromeDriver;

**import** org.openqa.selenium.support.ui.FluentWait;

**import** org.openqa.selenium.support.ui.Wait;

**import** org.testng.annotations.AfterClass;

**import** org.testng.annotations.AfterMethod;

**public** **class** FlipkartLogin {

// Step 1: Initialize the webdriver

WebDriver driver = **null**;

SoftAssert soft = **new** SoftAssert();

@Test

**public** **void** initialization\_T0() {

// Step 2: Declare a path and set property for google chrome driver

String path = "C:\\Users\\Prateek\\Phase 5 Workspace\\chromedriver\_win32\\chromedriver.exe";

System.*setProperty*("webdriver.chrome.driver", path);

driver = **new** ChromeDriver();

}

@Test(groups = "Chrome", dependsOnMethods = { "initialization\_T0" })

**public** **void** cross\_T1() {

System.***out***.println("Testcases Starting...");

System.***out***.println();

// starting chrome

driver.get("https://www.flipkart.com/");

**try** {

Thread.*sleep*(5000);

WebElement cross = driver.findElement(By.*cssSelector*("body > div.\_2Sn47c > div > div > button"));

cross.click();

} **catch** (InterruptedException e) {

e.printStackTrace();

}

}

@Test(groups = "Chrome", dependsOnMethods = {"cross\_T1"})

**public** **void** TitleTest\_T2() {

// wait until webpage is loaded completely

// Using FluentWait because it is Dynamic

Wait<WebDriver> wait = **new** FluentWait<WebDriver>(driver).withTimeout(Duration.*ofSeconds*(60))

.pollingEvery(Duration.*ofSeconds*(60)).ignoring(NoSuchElementException.**class**);

System.***out***.println("Fetching Title: " + driver.getTitle());

System.***out***.println();

AssertJUnit.*assertEquals*(driver.getTitle(),

"Online Shopping Site for Mobiles, Electronics, Furniture, Grocery, Lifestyle, Books & More. Best Offers!");

soft.assertAll();

}

@Test(groups = "Chrome", dependsOnMethods = { "TitleTest\_T2" })

**public** **void** MaxWindow\_T3() {

// Maximize Window

driver.manage().window().maximize();

}

@Test(groups = "Chrome", dependsOnMethods = { "MaxWindow\_T3" })

**public** **void** SendingQuerry\_T4() {

// Sending Querry as "iphone 13"

WebElement q = driver.findElement(By.*name*("q"));

q.sendKeys("iphone 13");

}

@Test(groups = "Chrome", dependsOnMethods = { "SendingQuerry\_T4" })

**public** **void** Search\_T5() {

// Clicking Search Button

WebElement button = driver.findElement(By.*cssSelector*(

"#container > div > div.\_1kfTjk > div.\_1rH5Jn > div.\_2Xfa2\_ > div.\_1cmsER > form > div > button > svg"));

button.click();

}

@Test(groups = "Chrome", dependsOnMethods = { "Search\_T5" })

**public** **void** Scroll\_T6() {

// Scroll down to an item

// Scrolling is done through java script querry

WebElement item = driver.findElement(

By.*xpath*("//\*[@id=\"container\"]/div/div[3]/div[1]/div[2]/div[11]/div/div/div/a/div[2]/div[1]/div[1]"));

((JavascriptExecutor) driver).executeScript("arguments[0].scrollIntoView();", item);

}

@AfterMethod

**public** **void** afterMethod() {

// wait for atleast 3 seconds, so that the page is fully loaded

**try** {

Thread.*sleep*(3000);

} **catch** (InterruptedException e) {

e.printStackTrace();

}

}

@AfterClass

**public** **void** Message2() {

System.***out***.println("All Testcases Executed...");

System.***out***.println();

// driver.close();

}

}

**Pom.xml**

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>My\_Project</groupId>

<artifactId>Automate-an-E-commerce-web-application</artifactId>

<version>0.0.1-SNAPSHOT</version>

<properties>

<project.build.sourceEncoding>UTF-8</project.build.sourceEncoding>

<maven.compiler.source>1.8</maven.compiler.source>

<maven.compiler.target>1.8</maven.compiler.target>

</properties>

<dependencies>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>7.5</version>

<scope>test</scope>

</dependency>

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.2.1</version>

</dependency>

</dependencies>

</project>

**Testing.xml**

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">

<suite name=*"Suite"*>

<test thread-count=*"5"* name=*"Test"*>

<classes>

<class name=*"com.simplilearn.demo.FlipkartLogin"*/>

</classes>

</test> <!-- Test -->

</suite> <!-- Suite -->