**Automate an E-Commerce Web Application**

**SourceCode:**

**package** automate;

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

**import** java.util.NoSuchElementException;

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

**import** java.util.function.Function;

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

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

**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.AfterMethod;

**import** org.testng.annotations.BeforeMethod;

**public** **class** NewTest {

WebDriver driver;

@Test

**public** **void** f()**throws** Exception {

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

driver.findElement(By.*name*("q")).sendKeys("iphone 13");

driver.findElement(By.*cssSelector*("#container > div > div.\_1kfTjk > div.\_1rH5Jn > div.\_2Xfa2\_ > div.\_1cmsER > form > div > button")).click();

Thread.*sleep*(3000);

JavascriptExecutor js = (JavascriptExecutor)driver;

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

System.***out***.println("Reached at bottom of the page");

//identify image

WebElement i = driver.findElement

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

// Javascript executor to check image

Boolean p = (Boolean) ((JavascriptExecutor)driver) .executeScript("return arguments[0].complete " + "&& typeof arguments[0].naturalWidth != \"undefined\" " + "&& arguments[0].naturalWidth > 0", i);

//verify if status is true

**if** (p) {

System.***out***.println("Logo is visible");

} **else** {

System.***out***.println("Logo is not visible");

}

Thread.*sleep*(3000);

driver.navigate().refresh();

Wait<WebDriver> wait = **new** FluentWait<WebDriver>(driver)

.~~withTimeout~~(30, TimeUnit.***SECONDS***)

.~~pollingEvery~~(5, TimeUnit.***SECONDS***)

.ignoring(NoSuchElementException.**class**);

WebElement clickseleniumlink = wait.until(**new** Function<WebDriver, WebElement>(){

**public** WebElement apply(WebDriver driver ) {

// return driver.findElement(By.cssSelector("#container > div > div.\_1kfTjk > div.\_1rH5Jn > div.\_2Xfa2\_ > div.\_3\_C9Hx > div > a:nth-child(1) > img"));

WebElement element= driver.findElement(By.*cssSelector*("#container > div > div.\_1kfTjk > div.\_1rH5Jn > div.\_2Xfa2\_ > div.go\_DOp.\_2errNR > div > div > div > a"));

String getTextOnPage= element.getText();

**if**(getTextOnPage.equals("Login")) {

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

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

**return** element;

}

**else** {

System.***out***.println("Fluent Wait Fail!, Element Not Loaded Yet");

**return** **null**;

}

}

});

}

@BeforeMethod

**public** **void** beforeMethod() {

System.*setProperty*("webdriver.chrome.driver", "E:\\ Files\\chromedriver.exe");

driver= **new** ChromeDriver();

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

}

@AfterMethod

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

//driver.close();

//driver.navigate().refresh();

driver=**null**;

}

}