**Automating the Amazon application using Selenium WebDriver.**

**Source codes:**

**Test Search Page:**

**package** FinalProject;

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.ArrayList;

**import** org.apache.commons.io.FileUtils;

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

**import** org.openqa.selenium.OutputType;

**import** org.openqa.selenium.TakesScreenshot;

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

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

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

**public** **class** TestSearchPage {

**public** **static** WebDriver *driver*;

**public** **static** **void** takescreenshot\_method(String filepath) **throws** IOException

{

File srcFile = ((TakesScreenshot)*driver*).getScreenshotAs(OutputType.***FILE***);

File destFile = **new** File(filepath);

FileUtils.*copyFile*(srcFile, destFile);

}

**public** **static** **void** main(String[] args) **throws** InterruptedException, IOException {

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

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

*driver*.manage().deleteAllCookies();

*driver*.get("https://www.amazon.in/");

Thread.*sleep*(1500);

WebElement searchbox = *driver*.findElement(By.*id*("twotabsearchtextbox"));

WebElement searchbutton = *driver*.findElement(By.*id*("nav-search-submit-button"));

searchbox.sendKeys("iphone 13");

searchbutton.submit();

*takescreenshot\_method*("./Screenshot/amazonsearch1.png");

Thread.*sleep*(3000);

WebElement mobilelink = *driver*.findElement(By.*xpath*("(//div[@class='a-section'])[2]/descendant::span[11]"));

mobilelink.click();

*takescreenshot\_method*("./Screenshot/amazonsearch2.png");

ArrayList<String> tabs = **new** ArrayList<String>(*driver*.getWindowHandles());

*driver*.switchTo().window(tabs.get(1));

Thread.*sleep*(1500);

WebElement wishlist = *driver*.findElement(By.*id*("wishListMainButton"));

wishlist.click();

*driver*.quit();

}

}

**Test Mobile Page:**

**package** FinalProject;

**import** java.io.File;

**import** java.io.IOException;

**import** java.util.ArrayList;

**import** org.apache.commons.io.FileUtils;

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

**import** org.openqa.selenium.OutputType;

**import** org.openqa.selenium.TakesScreenshot;

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

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

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

**import** org.openqa.selenium.interactions.Actions;

**public** **class** TestMobilePage {

**public** **static** WebDriver *driver*;

**public** **static** **void** takescreenshot\_method(String filepath) **throws** IOException

{

File srcFile = ((TakesScreenshot)*driver*).getScreenshotAs(OutputType.***FILE***);

File destFile = **new** File(filepath);

FileUtils.*copyFile*(srcFile, destFile);

}

**public** **static** **void** main(String[] args) **throws** InterruptedException, IOException {

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

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

*driver*.manage().deleteAllCookies();

*driver*.get("https://www.amazon.in/");

Thread.*sleep*(2000);

WebElement mobilelink = *driver*.findElement(By.*linkText*("Mobiles"));

  String text = mobilelink.getText();

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

mobilelink.click();

WebElement mobile = *driver*.findElement(By.*xpath*("//div[@id='nav-progressive-subnav']/descendant::span[2]"));

Actions a = **new** Actions(*driver*);

a.moveToElement(mobile).perform();

Thread.*sleep*(2000);

*takescreenshot\_method*("./Screenshot/mobile1.png");

WebElement apple\_link = *driver*.findElement(By.*linkText*("Apple"));

        text = apple\_link.getText();

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

apple\_link.click();

Thread.*sleep*(2000);

WebElement link2 = *driver*.findElement(By.*xpath*("(//div[@class='sg-col-inner'])[6]/descendant::span[9]"));

text = link2.getText();

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

link2.click();

*takescreenshot\_method*("./Screenshot/mobile2.png");

ArrayList<String> tabs = **new** ArrayList<String>(*driver*.getWindowHandles());

*driver*.switchTo().window(tabs.get(1));

Thread.*sleep*(1500);

WebElement addtoCart = *driver*.findElement(By.*id*("add-to-cart-button"));

addtoCart.click();

*takescreenshot\_method*("./Screenshot/mobile3.png");

*driver*.quit();

}

}

**Test SignIn Page:**

package in.amazon.project.lesson1;

import java.time.Duration;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.interactions.Actions;

public class TestSignInPage {

public static void main(String[] args) throws InterruptedException {

WebDriver driver = new ChromeDriver();

driver.manage().deleteAllCookies();

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

driver.manage().timeouts().pageLoadTimeout(Duration.ofSeconds(5));

driver.get("https://www.amazon.in/");

        WebElement e1 = driver.findElement(By.xpath("//\*[@class='nav-line-2 ']"));

Actions a = new Actions(driver);

a.moveToElement(e1).perform();

Thread.sleep(3000);

driver.findElement(By.linkText("Sign in")).click();

Thread.sleep(3000);

driver.findElement(By.id("ap\_email")).sendKeys("mittal.sonal04@gmail.com");

driver.findElement(By.xpath("//input[@id='continue']")).click();

driver.findElement(By.id("ap\_password")).sendKeys("password@123");

driver.findElement(By.id("signInSubmit")).click();

String text = driver.findElement(By.xpath("//div[@class='a-box-inner a-alert-container']/descendant::span")).getText();

System.out.println("Error test is >> " + text);

driver.close();

}

}

**Selenium JDBC Transaction:**

**package** phaseEndProject;

**import** java.sql.Connection;

**import** java.sql.DriverManager;

**import** java.sql.PreparedStatement;

**import** java.sql.SQLException;

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

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

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

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

**import** org.openqa.selenium.interactions.Actions;

**public** **class** SeleniumJDBCTrasaction {

**public** **static** **void** main(String[] args) **throws** InterruptedException, ClassNotFoundException, SQLException {

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

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

       driver.manage().deleteAllCookies();

driver.get("https://www.amazon.in/");

String title = driver.getTitle();

Thread.*sleep*(2000);

WebElement mobilelink = driver.findElement(By.*linkText*("Mobiles"));

mobilelink.click();

WebElement mobile = driver.findElement(By.*xpath*("//div[@id='nav-progressive-subnav']/descendant::span[2]"));

Actions a = **new** Actions(driver);

a.moveToElement(mobile).perform();

Thread.*sleep*(2000);

WebElement apple\_link = driver.findElement(By.*linkText*("Apple"));

        String text = apple\_link.getText();

apple\_link.click();

String dburl = "jdbc:mysql://localhost:3306/seleniumtest";

String username = "root";

String password = "root";

       Class.*forName*("com.mysql.cj.jdbc.Driver");

       Connection con = DriverManager.*getConnection*(dburl, username, password);

       PreparedStatement ps = con.prepareStatement("insert into endproject values(?,?,?)");

       ps.setString(1, title);

       ps.setString(2, text);

       ps.setString(3, "Yes");

       ps.executeUpdate();

}

}