**Assisted Project 1 : WebDriver Installation and Integration in Eclipse**

To Configuring the WebDriver with Eclipse

1: In Eclipse Right click on Project 🡪 select Properties 🡪 Select Java Build Path.

2: Go to Libraries tab and click on Add External Jars.

3: Add selenium standalone server Jar files in external jar then click on Apply and Close button.

**Assisted Project 2 : Locating Web Page Elements**

import org.openqa.selenium.By;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

public class AmazonSeleniumTest {

public static void main(String[] args) {

// Set the path to ChromeDriver

System.setProperty("webdriver.chrome.driver", "/ C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

// Initialize the WebDriver

WebDriver driver = new ChromeDriver();

// Navigate to the Amazon homepage

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

// Using ID as a Locator (Search bar)

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

searchBar.sendKeys("Selenium testing");

// Submitting the search query

searchBar.sendKeys(Keys.RETURN);

// Using class name as a Locator

WebElement productResult = driver.findElement(By.cssSelector(".s-result-item.s-asin"));

productResult.click();

// Using name as a Locator

WebElement signInButton = driver.findElement(By.name("email"));

signInButton.sendKeys("your\_email@example.com");

// Using Link Text as a Locator

WebElement continueButton = driver.findElement(By.id("continue"));

continueButton.click();

// Using XPath as a Locator

WebElement productTitle = driver.findElement(By.xpath("//span[@id='productTitle']"));

System.out.println("Product Title: " + productTitle.getText());

// Using CSS Selector as a Locator

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

addToCartButton.click();

// Using XPath handling complex and dynamic elements

WebElement viewCartButton = driver.findElement(By.xpath("//span[contains(text(), 'Cart')]"));

viewCartButton.click();

// Close the browser window

driver.quit();

}

}

**Assisted Project 3 : Locating Elements through CSS and XPath**

package com;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

public class App

{

public static void main( String[] args )

{

// register chrome driver

System.setProperty("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

//create an object to the driver to access the browser componenets

WebDriver wd=new ChromeDriver();

//maximize the browser

wd.manage().window().maximize();

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

wd.findElement(By.linkText("Start here.")).click();

wd.findElement(By.id("ap\_customer\_name")).sendKeys("Sushmitha");

wd.findElement(By.id("ap\_phone\_number")).sendKeys("874563219");

wd.findElement(By.id("ap\_email")).sendKeys("sush@gmail.com");

wd.findElement(By.id("ap\_password")).sendKeys("987456321");

wd.findElement(By.id("continue")).click();

//close the browser

// wd.close();

}

}

**Assisted Project 4 : Handling Various Web Elements**

**package** com;

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

**import** org.openqa.selenium.Keys;

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

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

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

**public** **class** App {

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

// Set the path to ChromeDriver

System.*setProperty*("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

// Initialize the WebDriver

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

// Navigate to the Amazon homepage

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

// Edit box (Search bar)

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

searchBar.sendKeys("Blue Pen");

searchBar.sendKeys(Keys.***RETURN***);

// Link (Example: Clicking on the "Today's Deals" link)

WebElement todaysDealsLink = driver.findElement(By.*linkText*("Today's Deals"));

todaysDealsLink.click();

// Button

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

addToCartButton.click();

//Image, image link, image button

WebElement amazonLogo = driver.findElement(By.*cssSelector*("a#nav-logo-sprites.nav-logo-link"));

amazonLogo.click();

//Text area

WebElement reviewTextArea = driver.findElement(By.*id*("customer\_review\_text"));

reviewTextArea.sendKeys("This product is amazing!");

// Checkbox

WebElement primeCheckbox = driver.findElement(By.*id*("primeRefinements"));

primeCheckbox.click();

//Radio button

WebElement sortLowToHighRadio = driver.findElement(By.*id*("s-result-sort-select\_1"));

sortLowToHighRadio.click();

// Dropdown list

WebElement departmentDropdown = driver.findElement(By.*id*("searchDropdownBox"));

departmentDropdown.sendKeys("Electronics");

// Close the browser window

driver.quit();

}

}

**Assisted Project 5 : Working with External Elements**

**package** com;

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

**import** org.openqa.selenium.Keys;

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

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

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

**public** **class** App {

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

System.*setProperty*("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

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

**try** {

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

driver.findElement(By.*tagName*("body")).sendKeys(Keys.***CONTROL*** + "t");

String oldTab = driver.getWindowHandle();

**for** (String newTab : driver.getWindowHandles()) {

**if** (!newTab.equals(oldTab)) {

driver.switchTo().window(newTab);

**break**;

}

}

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

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

searchBox.sendKeys("Selenium");

searchBox.sendKeys(Keys.***RETURN***);

driver.findElement(By.*tagName*("body")).sendKeys(Keys.***CONTROL*** + "w");

driver.switchTo().window(oldTab);

} **catch** (Exception e) {

e.printStackTrace();

} **finally** {

// Close the browser window

driver.quit();

}

}

}

**Assisted Project 6 : Screenshots**

package com;

import java.io.File;

import java.io.IOException;

import java.util.concurrent.TimeUnit;

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.chrome.ChromeDriver;

public class App

{

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

{

// register chrome driver

System.setProperty("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

//create an object to the driver to access the browser componenets

WebDriver wd=new ChromeDriver();

//maximize the browser

wd.manage().window().maximize();

//2000

wd.manage().timeouts().pageLoadTimeout(9000, TimeUnit.MILLISECONDS);

wd.get("http://127.0.0.1:5500/src/app/Registration.html");

wd.findElement(By.name("id")).sendKeys("1");

wd.findElement(By.name("name")).sendKeys("Sushmitha");

wd.findElement(By.name("email")).sendKeys("sushmitha@gmail.com");

wd.findElement(By.name("password")).sendKeys("123456");

takeScreenShot(wd,"Register");

wd.close();

}

public static void takeScreenShot(WebDriver wd, String fileName) throws IOException{

//take a screen shot and make it a a file

File file=((TakesScreenshot)wd).getScreenshotAs(OutputType.FILE);

//copy the file to a location with the extension

FileUtils.copyFile(file, new File("D:\\"+fileName+".png"));

}

}

**Assisted Project 7 : Handling File Uploads**

**package** com;

**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.support.ui.ExpectedConditions;

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

**public** **class** App {

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

// Set the path to ChromeDriver

System.*setProperty*("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

// Initialize the WebDriver

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

WebDriverWait wait = **new** WebDriverWait(driver, 10);

**try** {

driver.get("https://www.file.io/");

// Wait for the file input element to be visible

WebElement fileInput = wait.until(ExpectedConditions.*visibilityOfElementLocated*(By.*id*("file")));

// Provide the file path to upload

String filePath = "Desktop\\DocumnetUpload.txt";

fileInput.sendKeys(filePath);

} **catch** (Exception e) {

e.printStackTrace();

} **finally** {

// Close the browser window

driver.quit();

}

}

}

**Assisted Project 8 : Perform All Test Annotations**

**package** com;

**import** org.testng.annotations.\*;

**public** **class** TestAnnotations {

@Test

**public** **void** Test1() {

System.***out***.println("Test1 Executed");

}

@Test

**public** **void** Test2() {

System.***out***.println("Test2 Executed");

}

@BeforeTest

**public** **void** beforeTest() {

System.***out***.println("BeforeTest Executed");

}

@AfterTest

**public** **void** AfterTest() {

System.***out***.println("AfterTest Executed");

}

@BeforeMethod

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

System.***out***.println("BeforeMethod Executed");

}

@AfterMethod

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

System.***out***.println("AfterMethod Executed");

}

@BeforeClass

**public** **void** beforeClass() {

System.***out***.println("BeforeClass Executed");

}

@AfterClass

**public** **void** afterClass() {

System.***out***.println("AfterClass Executed");

}

}

**Assisted Project 9 : Group Test Cases and Parallel Test Execution**

public class ParallelEg {

WebDriver driver;

@Test(groups="Chrome")

public void LaunchChrome() {

System.setProperty("webdriver.chrome.driver", "C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe");

driver = new ChromeDriver();

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

try {

Thread.sleep(2000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(groups="Chrome", dependsOnMethods="LaunchChrome")

public void TryFacebook1() {

System.out.println(Thread.currentThread().getId());

driver.findElement(By.id("email")).sendKeys("sush@gmail.com");

driver.findElement(By.id("pass")).sendKeys("12345");

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

}

@Test(groups="Firefox")

public void LaunchFirefox() {

System.setProperty("webdriver.gecko.driver", " C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe ");

driver = new FirefoxDriver();

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

try {

Thread.sleep(4000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(groups="Firefox", dependsOnMethods="LaunchFirefox")

public void TryFacebook2() {

System.out.println(Thread.currentThread().getId());

driver.findElement(By.id("email")).sendKeys("anu@gmail.com");

driver.findElement(By.id("pass")).sendKeys("1234");

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

System.out.println(Thread.currentThread().getId());

}

}

**Assisted Project 10 : Evaluating Test Cases**

public class AssertionEg {

SoftAssert soft = new SoftAssert();

WebDriver driver;

@Test

public void Launch() {

System.setProperty("webdriver.chrome.driver", " C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe ");

driver = new ChromeDriver();

try {

Thread.sleep(3000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(dependsOnMethods = { "Launch" })

public void Facebook() {

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

soft.assertEquals("FB Title", driver.getTitle());

try {

Thread.sleep(2000);

} catch (Exception e) {

e.printStackTrace();

}

}

@Test(dependsOnMethods = { "Facebook" })

public void Login() {

driver.findElement(By.id("email")).sendKeys("sush@gmail.com");

driver.findElement(By.id("pass")).sendKeys("12345");

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

soft.assertAll();

try {

Thread.sleep(3000);

} catch (Exception e) {

e.printStackTrace();

}

}

}

**Assisted Project 11 : Selenium Integration with Jenkins**

Pom.xml

<dependencies>

<dependency>

<groupId>junit</groupId>

<artifactId>junit</artifactId>

<version>3.8.1</version>

<scope>test</scope>

</dependency>

<dependency>

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

<artifactId>selenium-java</artifactId>

<version>2.45.0</version>

</dependency>

<dependency>

<groupId>org.testng</groupId>

<artifactId>testng</artifactId>

<version>6.14.2</version>

<scope>test</scope>

</dependency>

</dependencies>

public class Test {

private WebDriver driver;

SoftAssert soft=new SoftAssert();

@Test

public void testEasy() {

System.setProperty("webdriver.chrome.driver", " C:\\Users\\Anusha\\Downloads\\chromedriver-win32\\chromedriver.exe ");

driver=new ChromeDriver();

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

String title = driver.getTitle();

soft.assertEquals("FB Login",title);

}

@BeforeTest

public void beforeTest() {

driver = new FirefoxDriver();

}

@AfterTest

public void afterTest() {

driver.quit();

}

}