IS4102 ADVANCED SOFTWARE QUALITY ASSURANCE

Assignment 2

M D M N PERERA
20020742
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Project Overview

This project is a test automation framework built using Selenium WebDriver and TestNG. It aims to automate tests for the Daraz e-commerce website, focusing on various functionalities such as searching for products, logging in, and managing user profiles. The framework uses a Page Object Model (POM) design pattern, which enhances the maintainability and scalability of the test cases.

Description of Key Components

The POM structure is utilized to separate test code from the application logic.

Pages: Contains page classes that represent different pages or cmponents of the application. This contains the methods representing the actions that can be preformed on that specific page.

e.g., DarazHomePage, DarazLoginPage -> pages

DarazNavigation -> Navigation bar

Tests: Contains test class where all the test methods are defined. Daraz.java includes various tests for functionality utilising the methods from the page classes to perform the required actions and assertions during testing.

Utilities: Contains utility classes such as ExcelUtil for reading test data from Excel file TestData.xlsx, Log for logging during tests running and Utilities for common methods used across tests for setup and teardown methods.

Resources: Contains configuration files, logging configuration, and test data files.

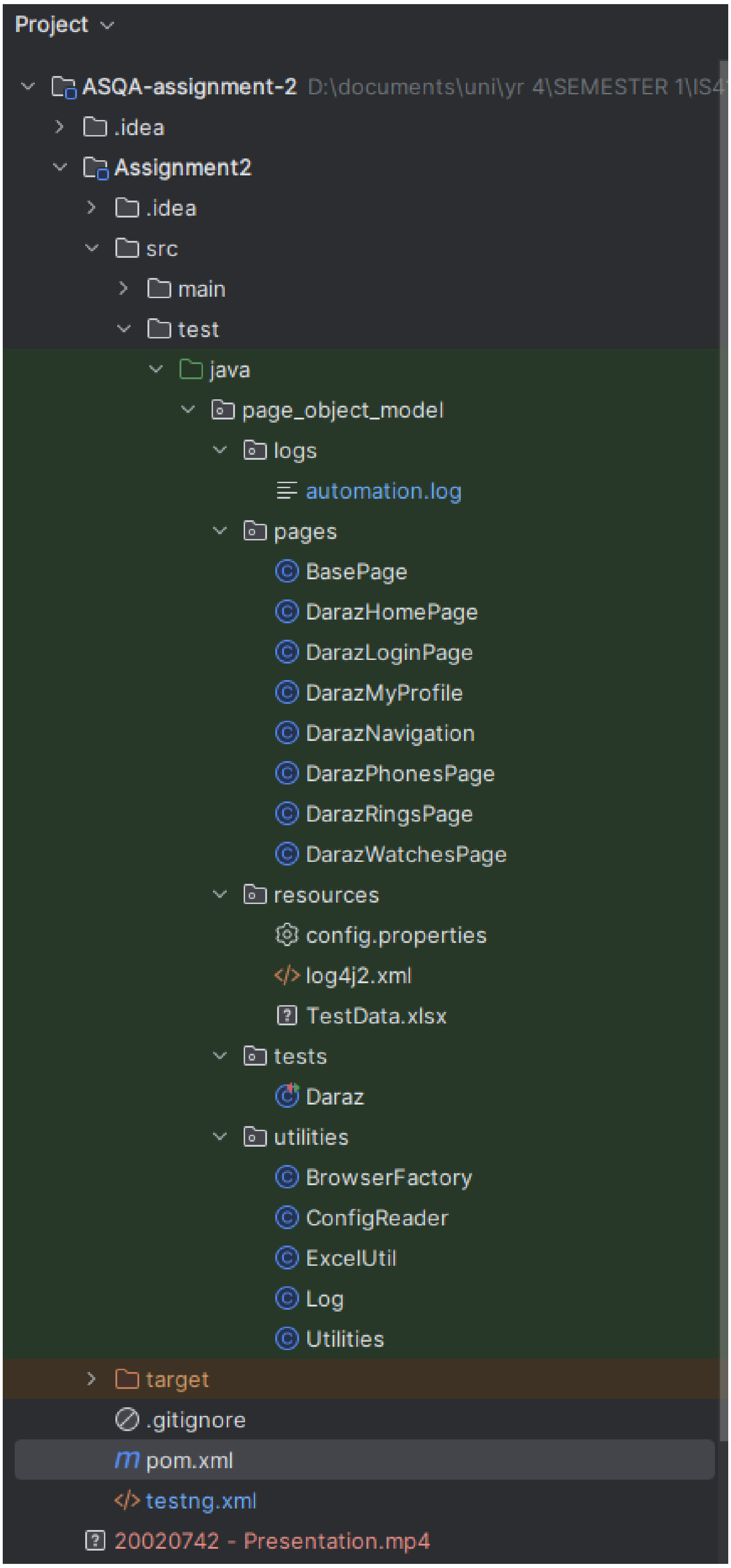
Pom.xml: Maven configuration file that specifies dependencies and project metadata.

Logging: Logging is handled using Log4j, with configurations specified in log4j2.xml. Logs are generated in both the console and a file located at src/test/java/page_object_model/logs/automation.log.

Test Data: Test data is stored in an Excel file TestData.xlsx, which is read during the execution of tests to provide inputs for login scenarios.

Testing.xml: Used for configuring and running tests. With the use of attributes like parallel and thread-count the tests are run parallely.

Project Structure



```
Project ⌄

⌄ ASQA-assignment-2  D:\documents\uni\yr 4\SEMESTER 1\IS4
  › .idea
  ⌄ Assignment2
    › .idea
    ⌄ src
      › main
      ⌄ test
        ⌄ java
          ⌄ page_object_model
            ⌄ logs
                automation.log
            ⌄ pages
                BasePage
                DarazHomePage
                DarazLoginPage
                DarazMyProfile
                DarazNavigation
                DarazPhonesPage
                DarazRingsPage
                DarazWatchesPage
            ⌄ resources
                config.properties
                log4j2.xml
                TestData.xlsx
            ⌄ tests
                Daraz
            ⌄ utilities
                BrowserFactory
                ConfigReader
                ExcelUtil
                Log
                Utilities
    › target
      .gitignore
      pom.xml
      testng.xml
    20020742 - Presentation.mp4
```

Setup Instructions

Prerequisites

1. Java Development Kit (JDK) – install JDK and setup environment variables
2. Maven – install Maven and setup the environment variables

Steps to Set Up

1. Clone the repository to the local machine
2. Navigate to the project directory in an IDE (IntelliJ IDEA / Eclipse)
3. Install dependencies
4. Configure the environment – update the config.properties file with the wanted browser type
5. Run tests sequentially – run the file Daraz.java
6. Run tests parallelly – run the file testing.xml

Links

Presentation Link

https://drive.google.com/file/d/17BWuqpfFUq3WGQdEVUytCzkBNsXIKePL/view?usp=drive_link

Source Code Link

https://github.com/michellenikeetha/ASQA-assignment-2.git

TestNG Features implemented

Annotations

@BeforeTest and @AfterTest in the Utilities.java for test setup and teardown functions.

Using the @BeforeTest annotation I have initialized the browserFactory which is then used to initialize a WebDriver instance.

Using the @AfterTest annotation the active WebDriver instance is retrieved and closes the browser ending the WebDriver session completely.

Parallel Execution

Parallel execution is configured in the testng.xml file, allowing multiple tests to run concurrently, which speeds up test execution and demonstrates scalable test automation.

In the testng.xml, parallel="methods" attributes allow methods to execute simultaneously across different browser instances.

thread-count="4" : I have specified the number of threads as 4, so 4 test methods will be run simultaneously.

Assertions

Assertions are used in my tests to verify the expected outcomes against the actual outcomes, ensuring that each step behaves as intended.

Ex:

01. In searchRings(), an assertion checks if the Cubic Zirconia checkbox is visible on the search results page.
02. In loginWithDataProvider(), an assertion checks if the "My Account" button is visible after a successful login attempt.

Cross-Browser Testing

The cross-browser setup is used to validate that the web application behaves consistently across different browsers.It ensures that elements, functionality, and layouts are uniformly accessible across popular browsers, which is essential for a high-quality user experience.

It supports Chrome, Firefox, and Edge. The browser type is configured externally using ConfigReader.java and config.properties files.

Test Data Management and Data-Driven Testing

Data-driven testing allows to run tests with multiple sets of data, which is implemented using TestNG's @DataProvider and the external test data file TestData.xlsx which contains login data for the login functionality.

The @DataProvider annotation is used to provide test data to the method loginWithDataProvider, allowing multiple login scenarios (success and failure) to be tested with different username/password combinations. The TestData.xlsx is accessed using the ExcelUtil.java file and then provides the data to the loginDataProvider method which is then used by loginWithDataProvider method.

Error Handling and Logging

Both error handling and logging is implemented in the project to make debugging and troubleshooting easier.

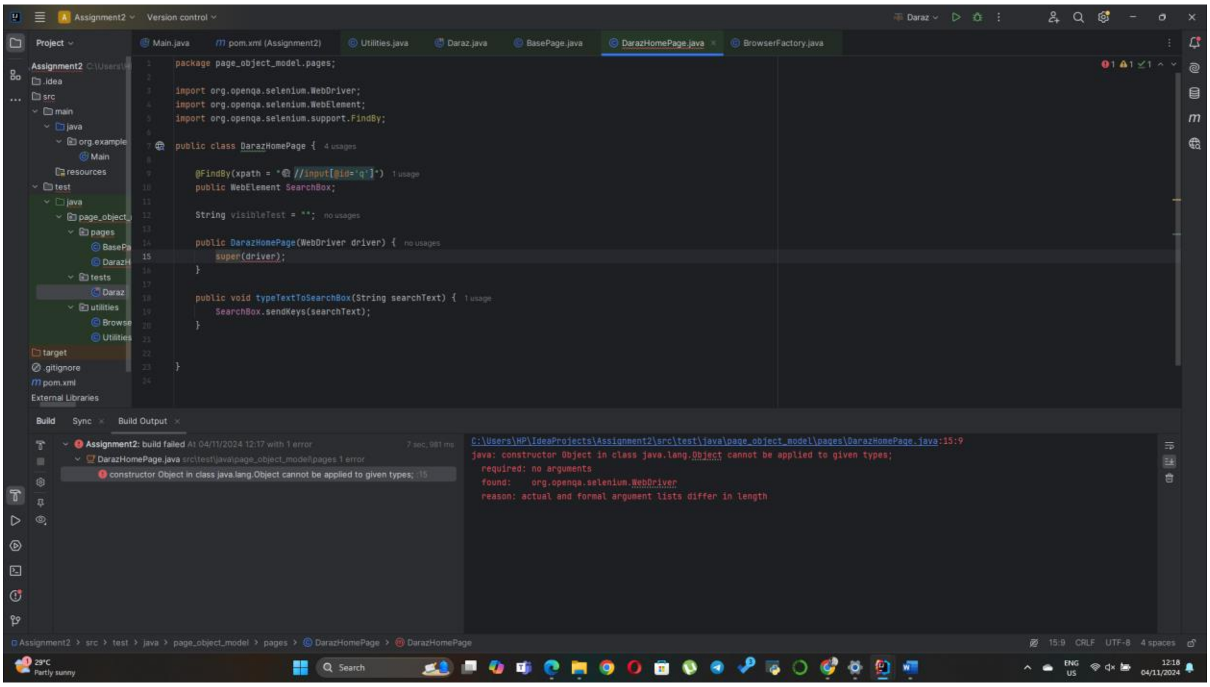
The errors are handled by using exceptions in test methods and BrowserFactory.java class and logging is done in every java class using log4j2.xml. These helps in preventing unexpected errors from crashing the tests and gives out detailed logging of any failures and other information. Logging does not directly handle errors, but it provides context which is needed for debugging the issues if arised.

Additional Utilities

Additional utilities implemented in my project are ConfigReader.java, ExcelUtil.java and Log.java

Some Screenshots capturing failures occurred during test implementation

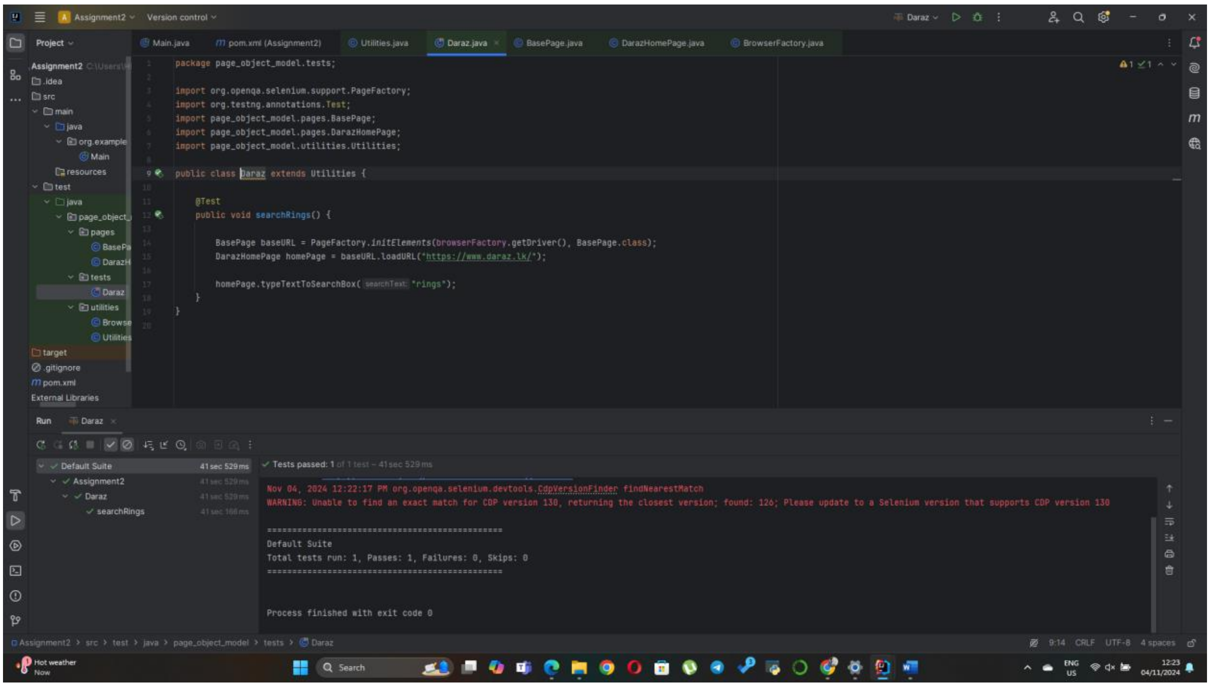
searchRings



```java
package page_object_model.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;

public class DarazHomePage {

    @FindBy(xpath = "//input[@id='q']")
    public WebElement SearchBox;

    String visibleTest = "";

    public DarazHomePage(WebDriver driver) {
        super(driver);
    }

    public void typeTextToSearchBox(String searchText) {
        SearchBox.sendKeys(searchText);
    }


}
```

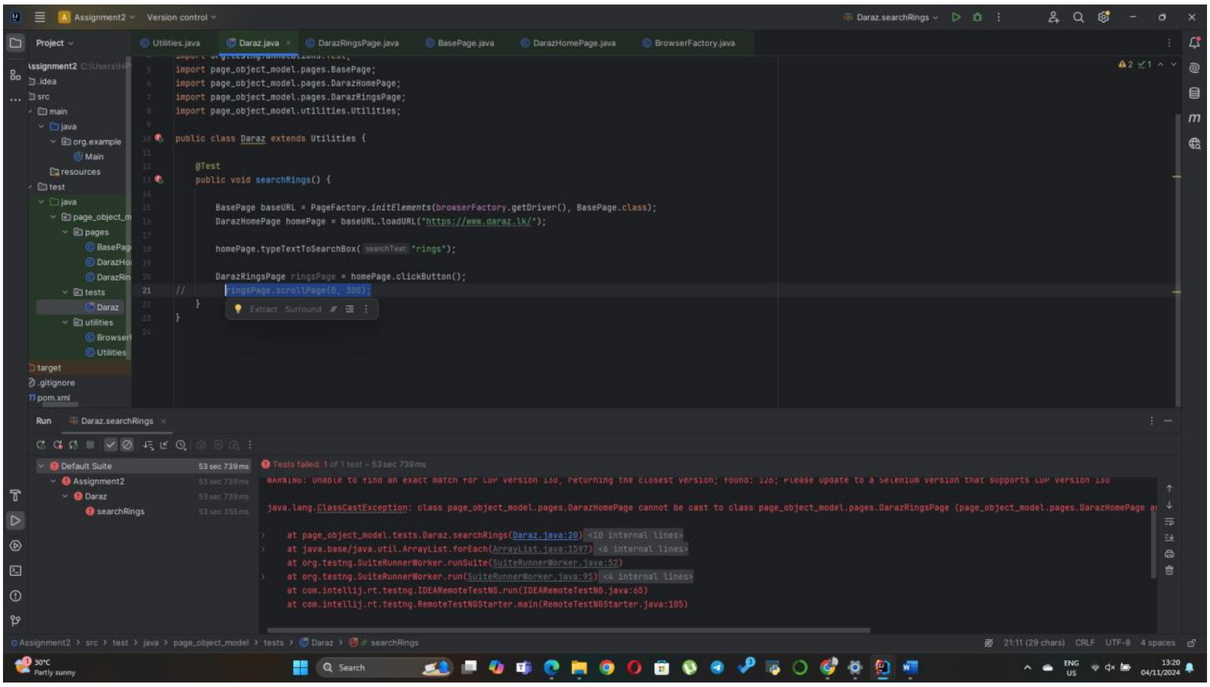
```
Assignment2: build failed At 04/11/2024 12:17 with 1 error    7 sec, 981 ms
  DarazHomePage.java src\test\java\page_object_model\pages 1 error
    constructor Object in class java.lang.Object cannot be applied to given types; :15
```

```
C:\Users\HP\IdeaProjects\Assignment2\src\test\java\page_object_model\pages\DarazHomePage.java:15:9
java: constructor Object in class java.lang.Object cannot be applied to given types;
  required: no arguments
  found:    org.openqa.selenium.WebDriver
  reason: actual and formal argument lists differ in length
```



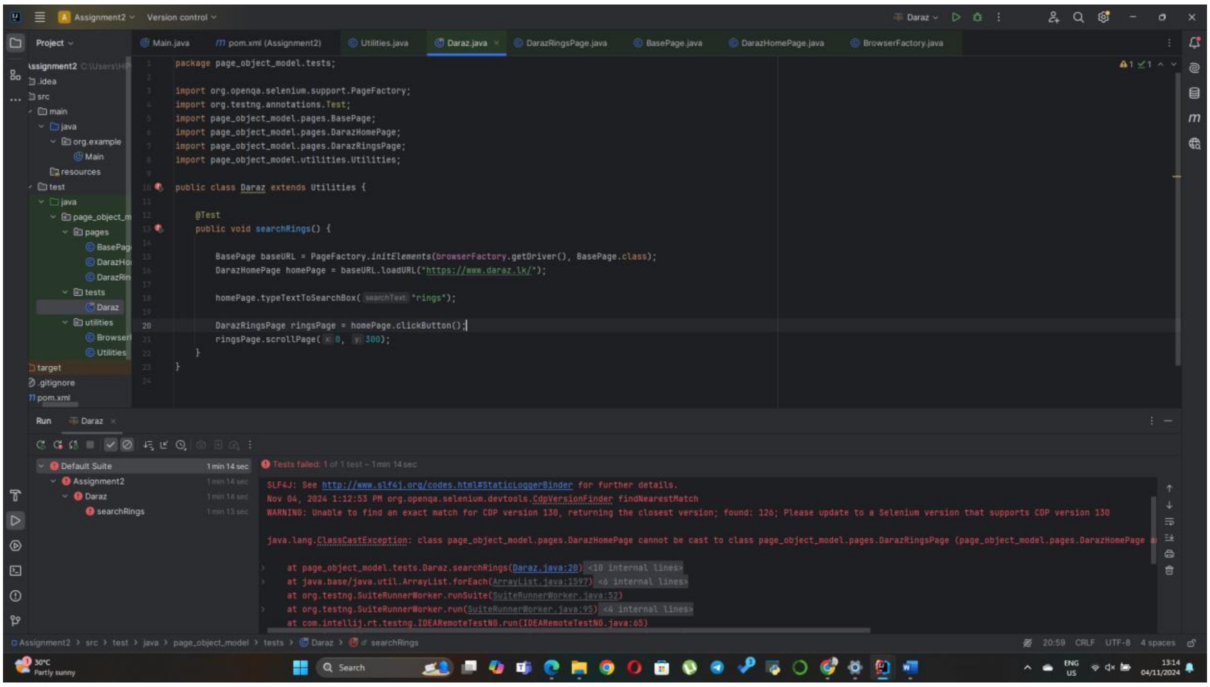
```java
package page_object_model.tests;

import org.openqa.selenium.support.PageFactory;
import org.testng.annotations.Test;
import page_object_model.pages.BasePage;
import page_object_model.pages.DarazHomePage;
import page_object_model.utilities.Utilities;

public class Daraz extends Utilities {

    @Test
    public void searchRings() {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "rings");
    }
}
```

```
Tests passed: 1 of 1 test – 41 sec 529 ms

Nov 04, 2024 12:22:17 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```



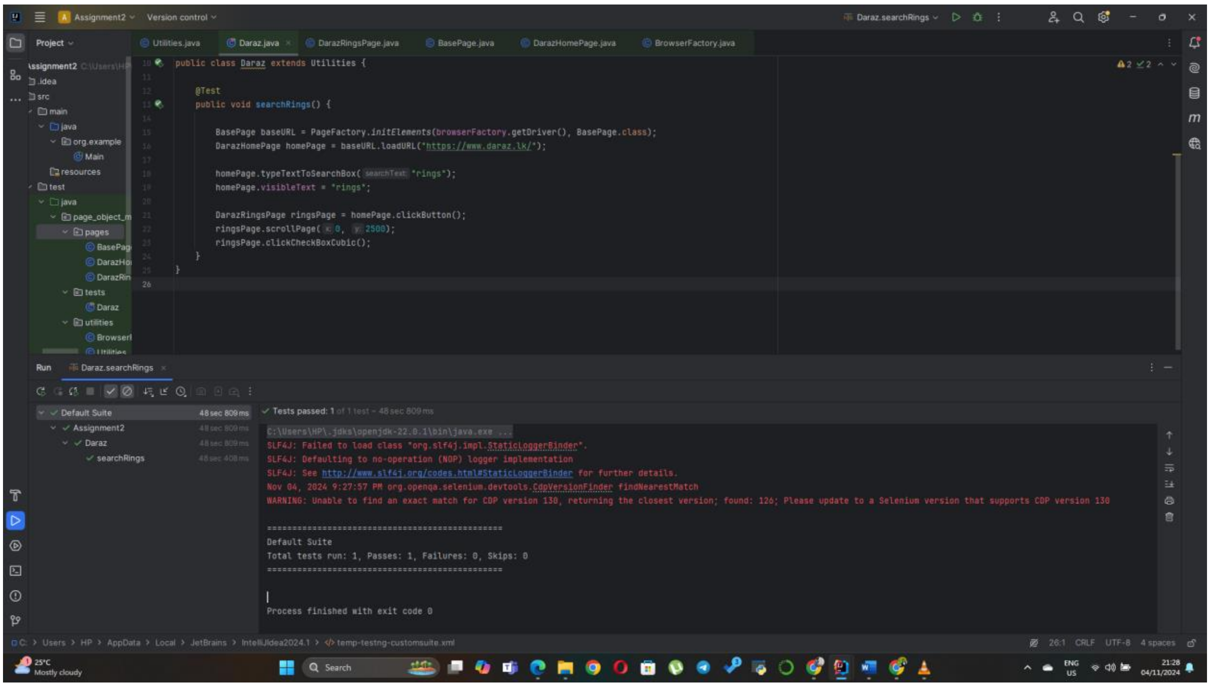
```java
import org.testng.annotations.Test;
import page_object_model.pages.BasePage;
import page_object_model.pages.DarazHomePage;
import page_object_model.pages.DarazRingsPage;
import page_object_model.utilities.Utilities;

public class Daraz extends Utilities {

    @Test
    public void searchRings() {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "rings");

        DarazRingsPage ringsPage = homePage.clickButton();
//        ringsPage.scrollPage(0, 300);
    }
}
```

```
Tests failed: 1 of 1 test – 53 sec 739 ms
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

java.lang.ClassCastException: class page_object_model.pages.DarazHomePage cannot be cast to class page_object_model.pages.DarazRingsPage (page_object_model.pages.DarazHomePage a

	at page_object_model.tests.Daraz.searchRings(Daraz.java:20) <10 internal lines>
	at java.base/java.util.ArrayList.forEach(ArrayList.java:1597) <6 internal lines>
	at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
	at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:95) <4 internal lines>
	at com.intellij.rt.testng.IDEARemoteTestNG.run(IDEARemoteTestNG.java:65)
	at com.intellij.rt.testng.RemoteTestNGStarter.main(RemoteTestNGStarter.java:105)
```



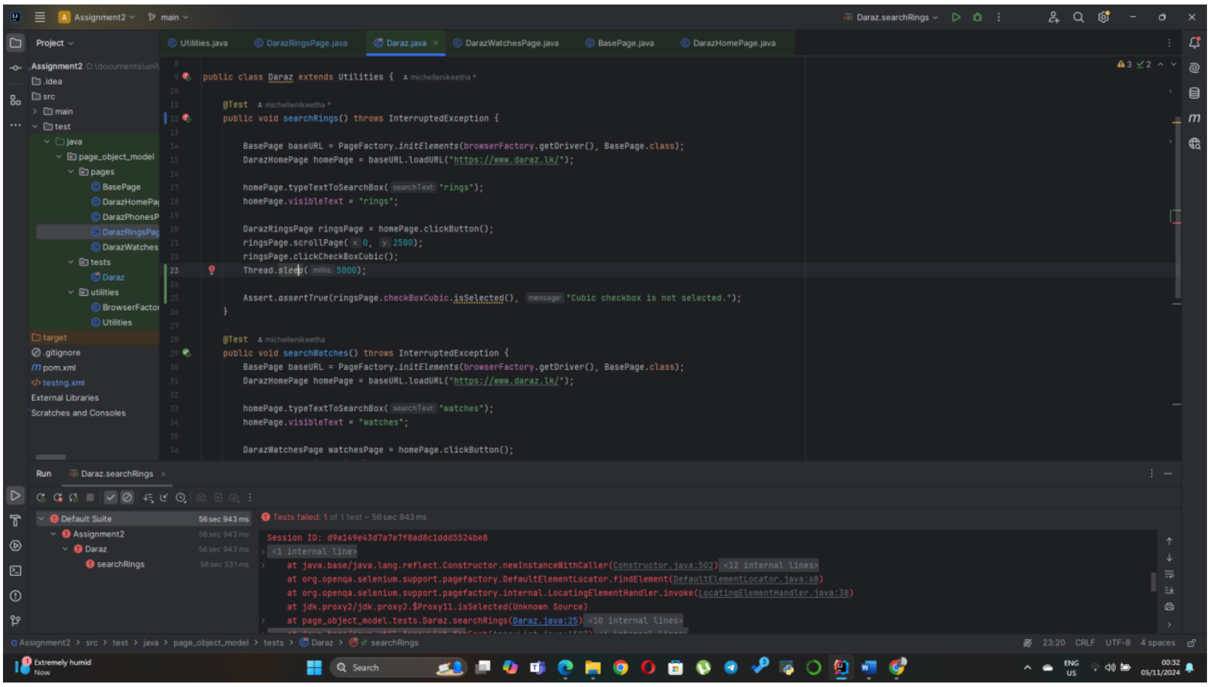
```java
package page_object_model.tests;

import org.openqa.selenium.support.PageFactory;
import org.testng.annotations.Test;
import page_object_model.pages.BasePage;
import page_object_model.pages.DarazHomePage;
import page_object_model.pages.DarazRingsPage;
import page_object_model.utilities.Utilities;

public class Daraz extends Utilities {

    @Test
    public void searchRings() {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("rings");

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage(0, 300);
    }
}
```

```
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 04, 2024 1:12:53 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

java.lang.ClassCastException: class page_object_model.pages.DarazHomePage cannot be cast to class page_object_model.pages.DarazRingsPage (page_object_model.pages.DarazHomePage a

    at page_object_model.tests.Daraz.searchRings(Daraz.java:20) <10 internal lines>
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1597) <6 internal lines>
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
    at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:95) <4 internal lines>
    at com.intellij.rt.testng.IDEARemoteTestNG.run(IDEARemoteTestNG.java:65)
```



```java
public class Daraz extends Utilities {

    @Test
    public void searchRings() {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("rings");
        homePage.visibleText = "rings";

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage(0, 2500);
        ringsPage.clickCheckBoxCubic();
    }
}
```

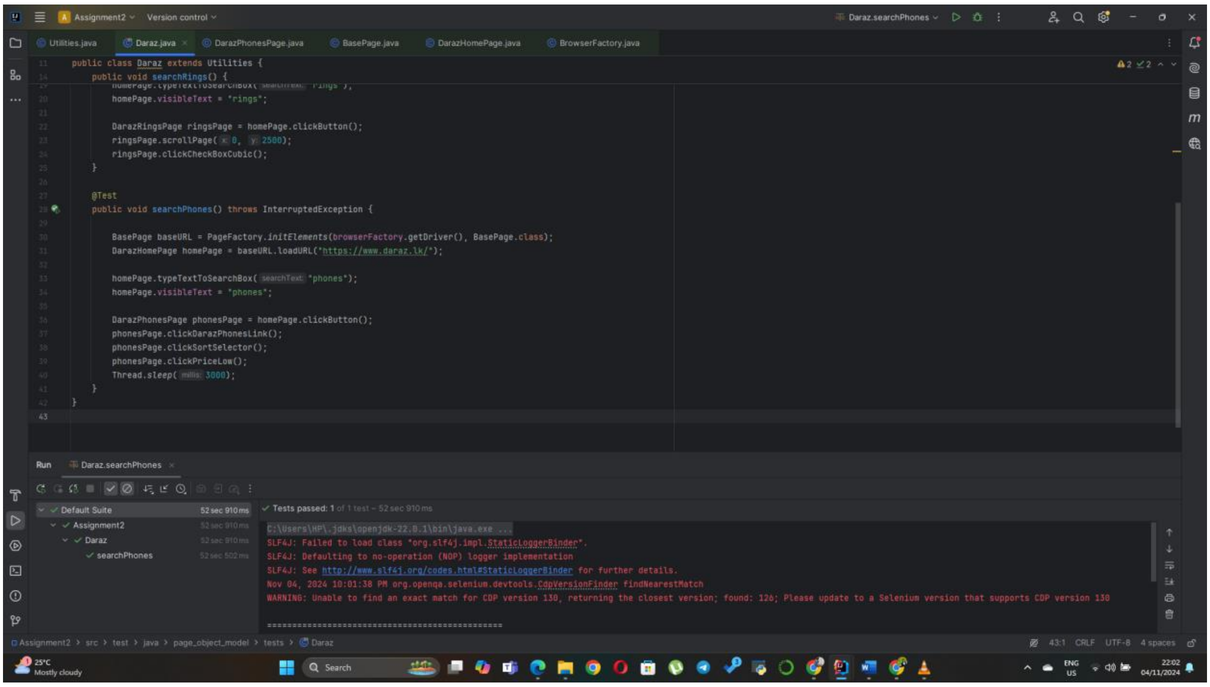
```
C:\Users\HP\.jdks\openjdk-22.0.1\bin\java.exe ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 04, 2024 9:27:57 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```



```java
public class Daraz extends Utilities {

    @Test
    public void searchRings() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "rings");
        homePage.visibleText = "rings";

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage( x: 0,  y: 2500);
        ringsPage.clickCheckBoxCubic();
        Thread.sleep( millis: 5000);

        Assert.assertTrue(ringsPage.checkBoxCubic.isSelected(),  message: "Cubic checkbox is not selected.");
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "watches");
        homePage.visibleText = "watches";

        DarazWatchesPage watchesPage = homePage.clickButton();
```

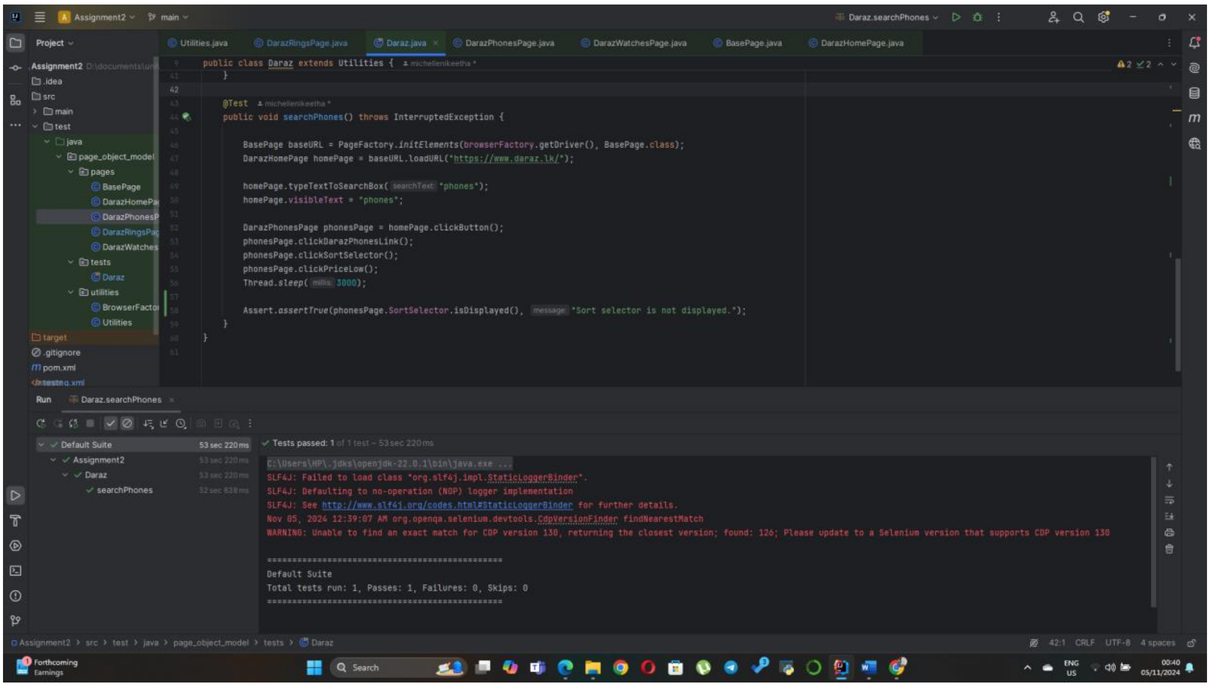
```
Default Suite      56 sec 943 ms
  Assignment2      56 sec 943 ms
    Daraz          56 sec 943 ms
      searchRings  56 sec 531 ms

Tests failed: 1 of 1 test – 56 sec 943 ms

Session ID: d9a149e43d7a7e7f8ad8c1ddd5524be8
<1 internal line>
    at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:502) <12 internal lines>
    at org.openqa.selenium.support.pagefactory.DefaultElementLocator.findElement(DefaultElementLocator.java:68)
    at org.openqa.selenium.support.pagefactory.internal.LocatingElementHandler.invoke(LocatingElementHandler.java:38)
    at jdk.proxy2/jdk.proxy2.$Proxy11.isSelected(Unknown Source)
    at page_object_model.tests.Daraz.searchRings(Daraz.java:25) <10 internal lines>
```

searchPhones



```java
public class Daraz extends Utilities {
    public void searchRings() {
            homePage.typeTextToSearchBox( searchText: "rings");
            homePage.visibleText = "rings";

            DarazRingsPage ringsPage = homePage.clickButton();
            ringsPage.scrollPage( x: 0,  y: 2500);
            ringsPage.clickCheckBoxCubic();
        }

        @Test
        public void searchPhones() throws InterruptedException {

            BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
            DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

            homePage.typeTextToSearchBox( searchText: "phones");
            homePage.visibleText = "phones";

            DarazPhonesPage phonesPage = homePage.clickButton();
            phonesPage.clickDarazPhonesLink();
            phonesPage.clickSortSelector();
            phonesPage.clickPriceLow();
            Thread.sleep( millis: 3000);
        }
    }
```

```
Default Suite        52 sec 910 ms
  Assignment2        52 sec 910 ms
    Daraz            52 sec 910 ms
      searchPhones   52 sec 502 ms

Tests passed: 1 of 1 test – 52 sec 910 ms

C:\Users\HP\.jdks\openjdk-22.0.1\bin\java.exe ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 04, 2024 10:01:38 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

===============================================
```

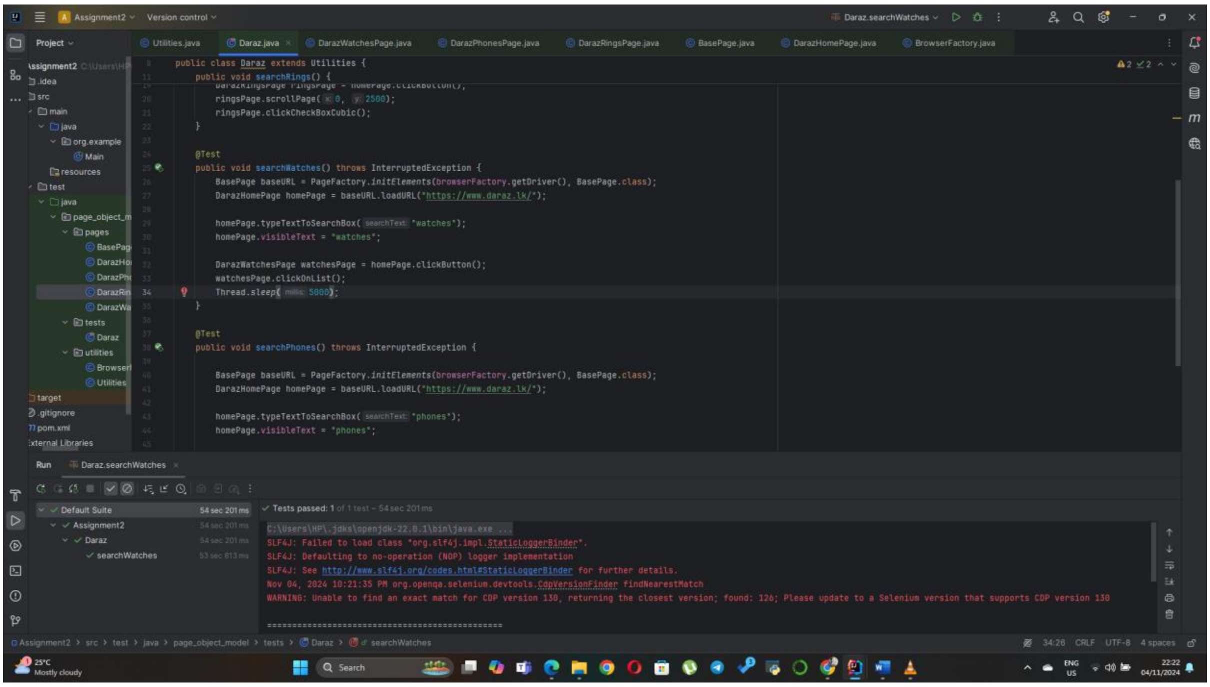


```java
public class Daraz extends Utilities {
    }

    @Test
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "phones");
        homePage.visibleText = "phones";

        DarazPhonesPage phonesPage = homePage.clickButton();
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep( millis: 3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(), message: "Sort selector is not displayed.");
    }
}
```

✓ Tests passed: 1 of 1 test – 53 sec 220 ms

```
C:\Users\HP\.jdks\openjdk-22.0.1\bin\java.exe ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 05, 2024 12:39:07 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```

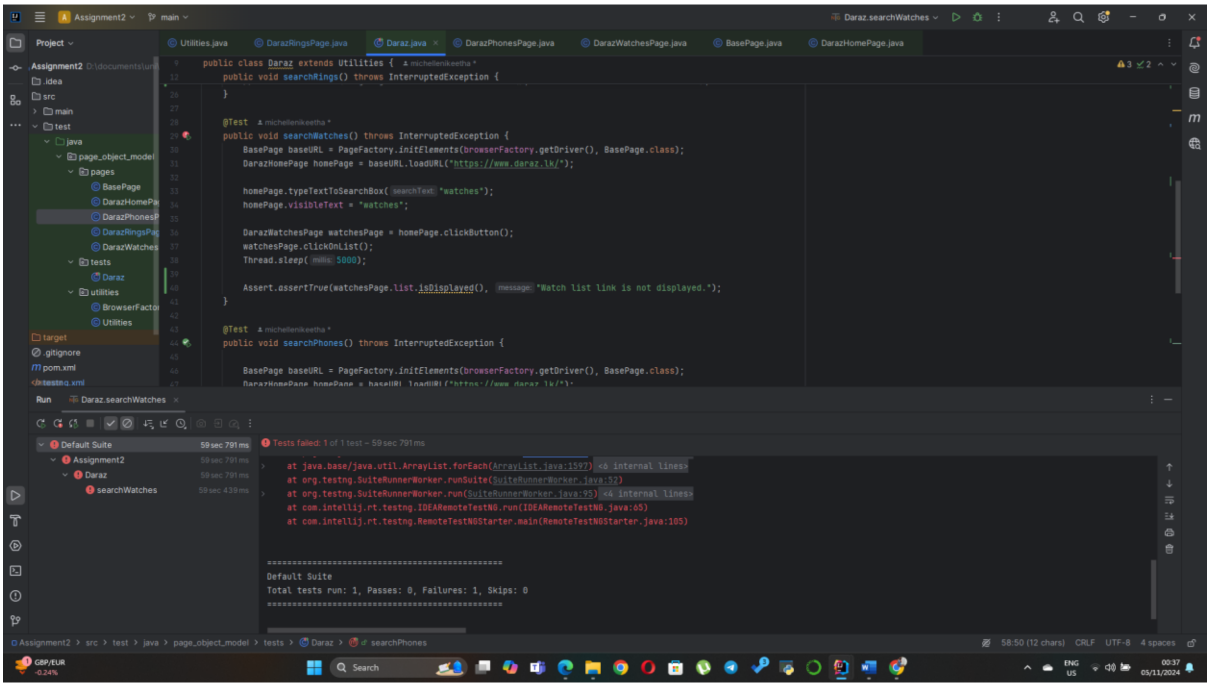
SearchWatches



```java
public class Daraz extends Utilities {
    public void searchRings() {
        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage( x: 0, y: 2500);
        ringsPage.clickCheckBoxCubic();
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "watches");
        homePage.visibleText = "watches";

        DarazWatchesPage watchesPage = homePage.clickButton();
        watchesPage.clickOnList();
        Thread.sleep( millis: 5000);
    }

    @Test
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "phones");
        homePage.visibleText = "phones";
```

✓ Tests passed: 1 of 1 test – 54 sec 201 ms

```
C:\Users\HP\.jdks\openjdk-22.0.1\bin\java.exe ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
Nov 04, 2024 10:21:35 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130

===============================================
```

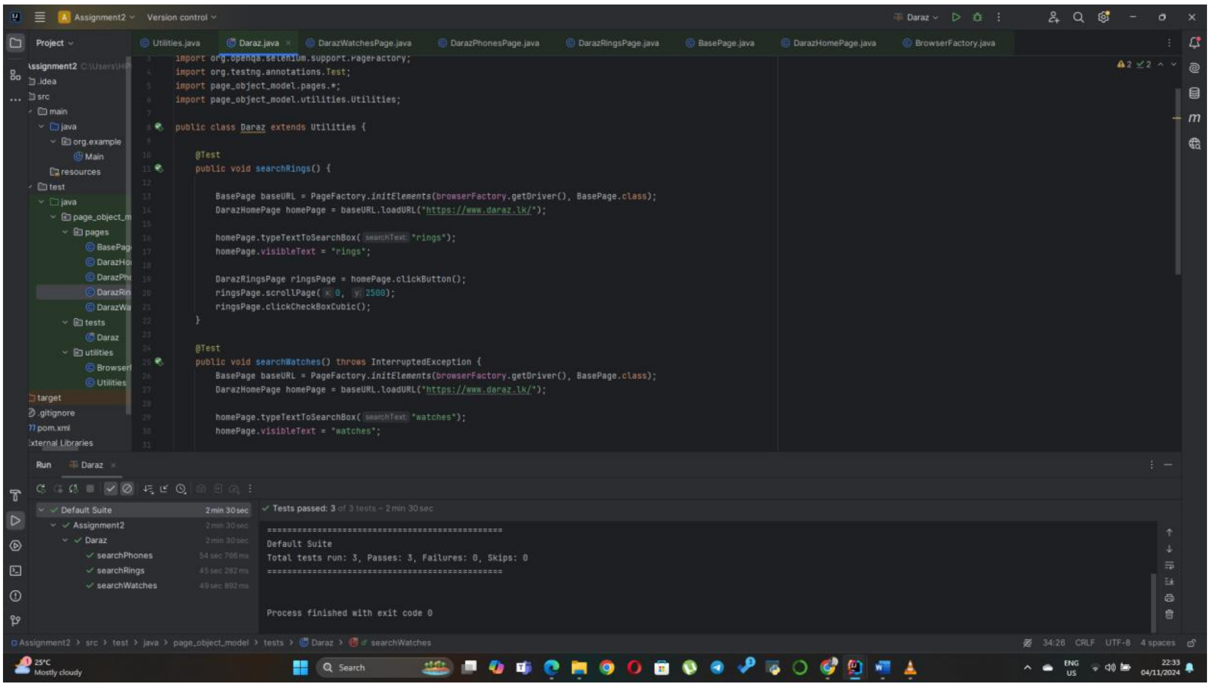


```java
public class Daraz extends Utilities {
    public void searchRings() throws InterruptedException {
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("watches");
        homePage.visibleText = "watches";

        DarazWatchesPage watchesPage = homePage.clickButton();
        watchesPage.clickOnList();
        Thread.sleep(5000);

        Assert.assertTrue(watchesPage.list.isDisplayed(), "Watch list link is not displayed.");
    }

    @Test
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");
```

Default Suite 59 sec 791 ms
Assignment2 59 sec 791 ms
Daraz 59 sec 791 ms
searchWatches 59 sec 439 ms

Tests failed: 1 of 1 test – 59 sec 791 ms

```
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1597) <6 internal lines>
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
    at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:95) <4 internal lines>
    at com.intellij.rt.testng.IDEARemoteTestNG.run(IDEARemoteTestNG.java:65)
    at com.intellij.rt.testng.RemoteTestNGStarter.main(RemoteTestNGStarter.java:105)


===============================================
Default Suite
Total tests run: 1, Passes: 0, Failures: 1, Skips: 0
===============================================
```



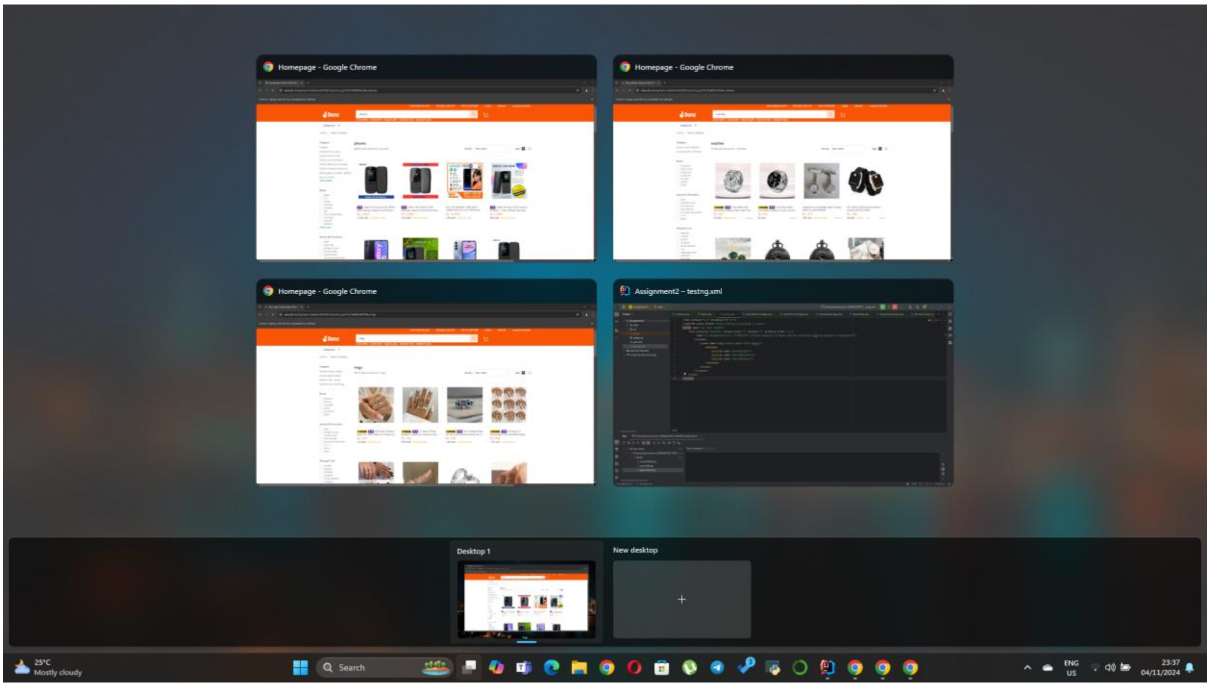
```java
import org.openqa.selenium.support.PageFactory;
import org.testng.annotations.Test;
import page_object_model.pages.*;
import page_object_model.utilities.Utilities;

public class Daraz extends Utilities {

    @Test
    public void searchRings() {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("rings");
        homePage.visibleText = "rings";

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage(0, 2500);
        ringsPage.clickCheckBoxCubic();
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("watches");
        homePage.visibleText = "watches";
```

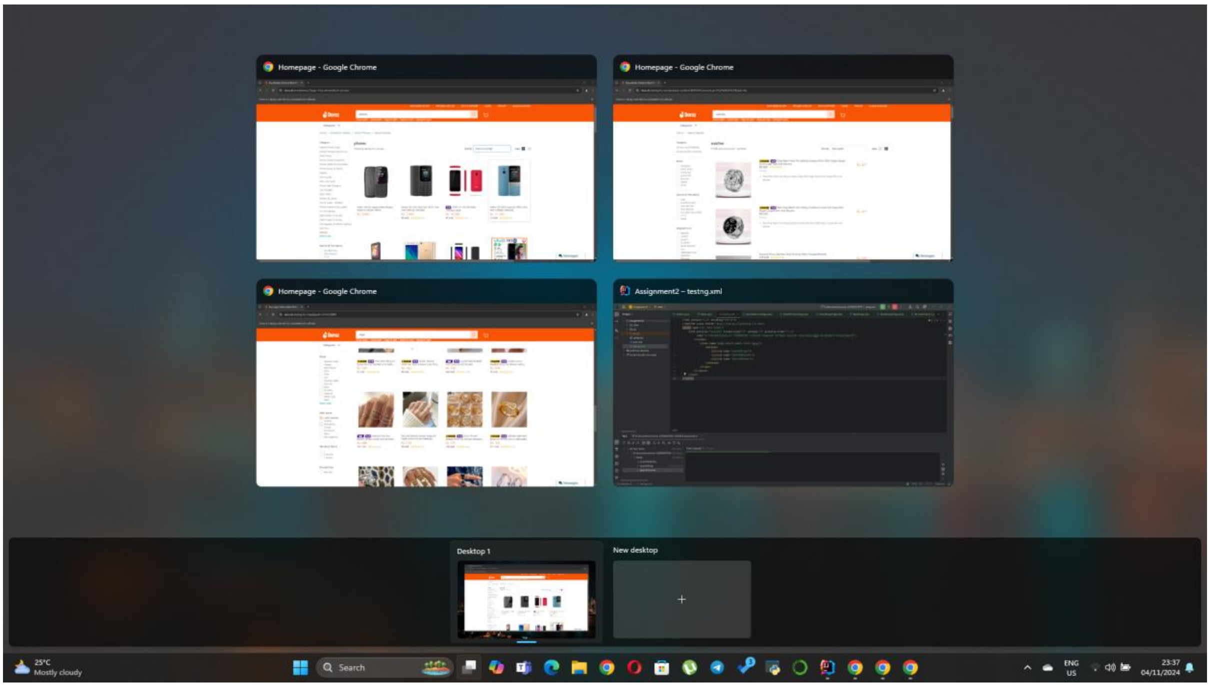
Default Suite 2 min 30 sec
Assignment2 2 min 30 sec
Daraz 2 min 30 sec
searchPhones 54 sec 766 ms
searchRings 45 sec 282 ms
searchWatches 49 sec 892 ms

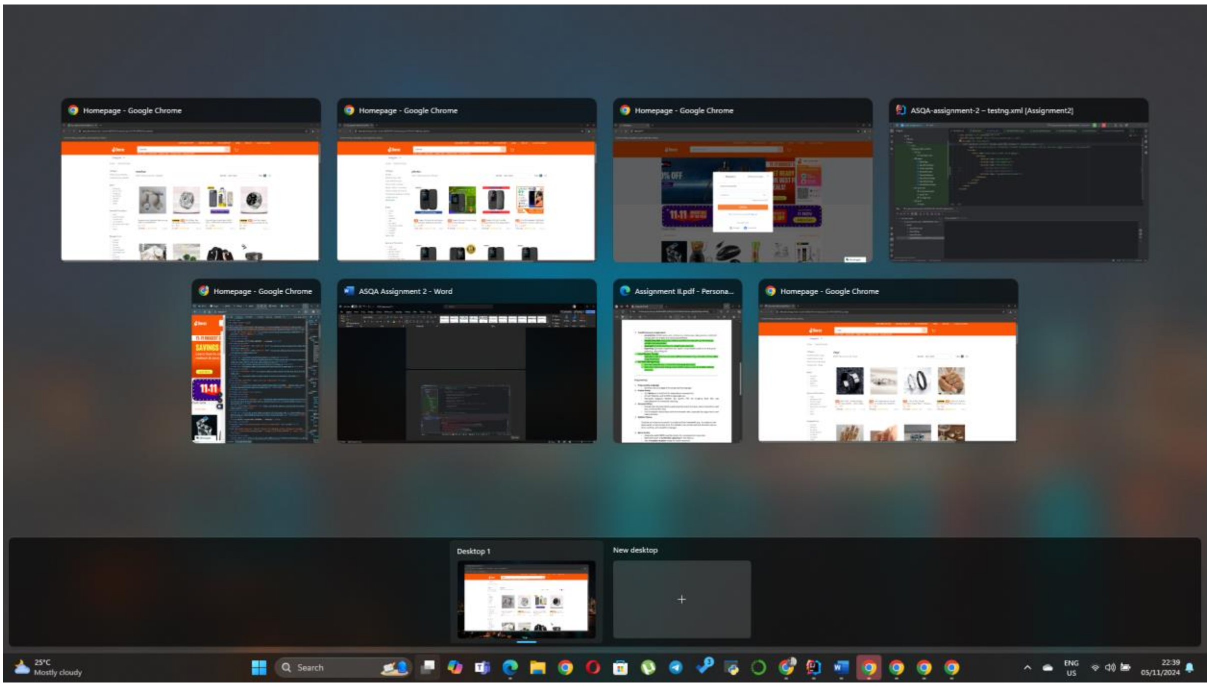
Tests passed: 3 of 3 tests – 2 min 30 sec

```
===============================================
Default Suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```

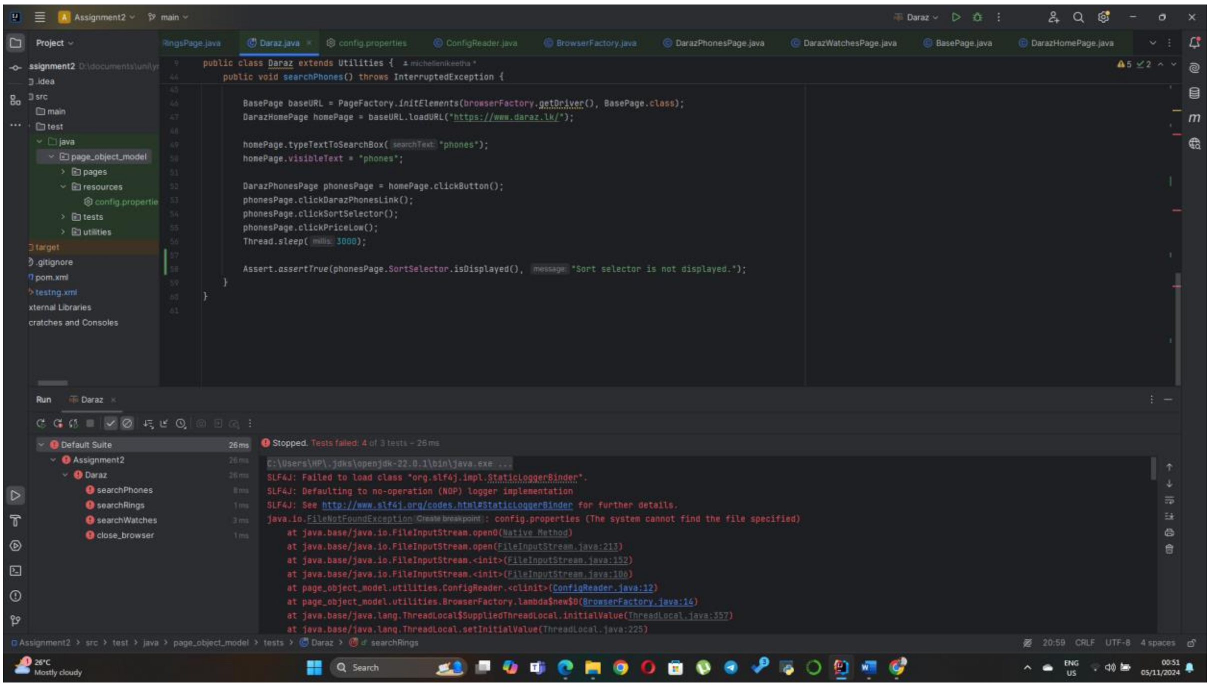
Parallel execution







ConfigReader



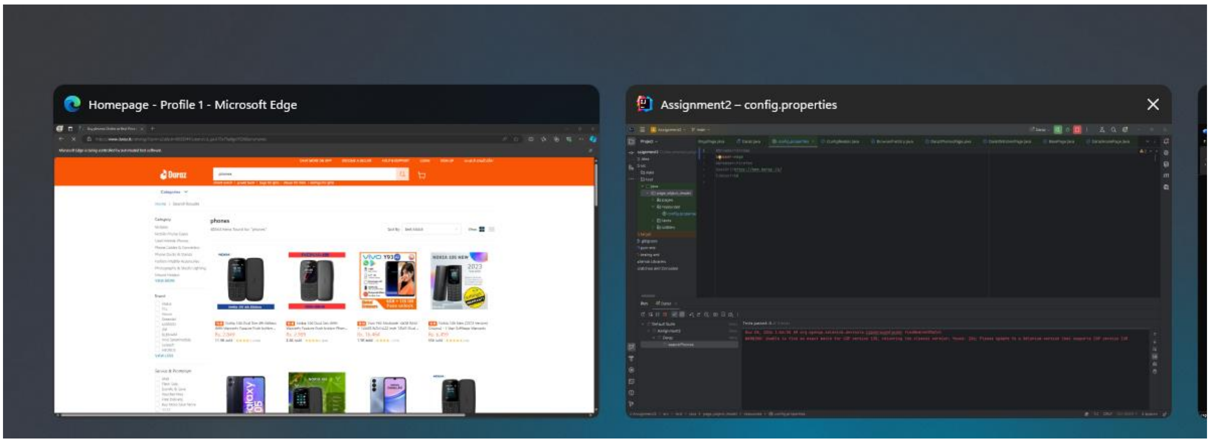
```
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "phones");
        homePage.visibleText = "phones";

        DarazPhonesPage phonesPage = homePage.clickButton();
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep( millis: 3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(), message: "Sort selector is not displayed.");
    }
}
```

```
Default Suite        26 ms
  Assignment2        26 ms
    Daraz            26 ms
      searchPhones    8 ms
      searchRings     1 ms
      searchWatches   3 ms
      close_browser   1 ms
```

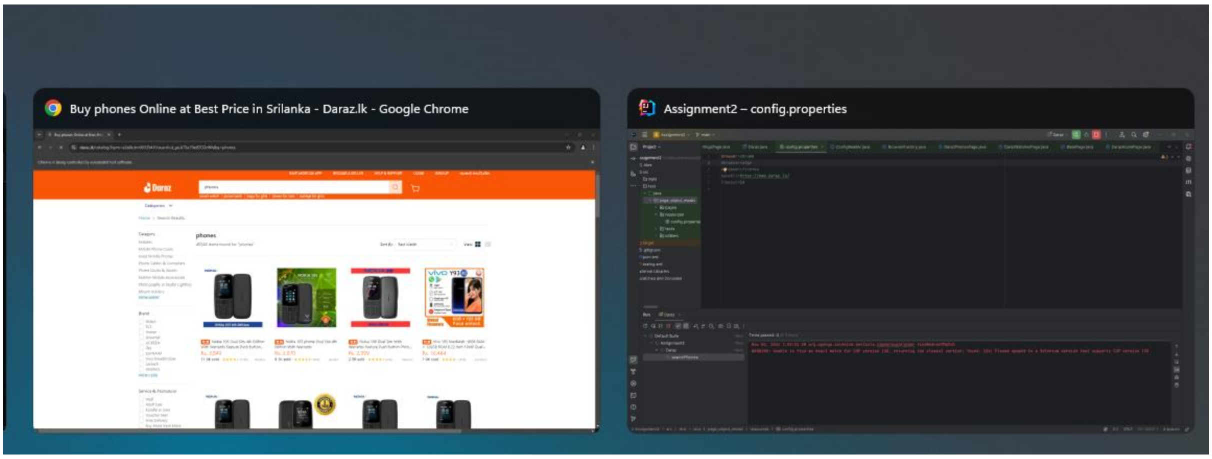
```
Stopped. Tests failed: 4 of 3 tests – 26 ms
C:\Users\HP\.jdks\openjdk-22.0.1\bin\java.exe ...
SLF4J: Failed to load class "org.slf4j.impl.StaticLoggerBinder".
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
java.io.FileNotFoundException Create breakpoint : config.properties (The system cannot find the file specified)
    at java.base/java.io.FileInputStream.open0(Native Method)
    at java.base/java.io.FileInputStream.open(FileInputStream.java:213)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:152)
    at java.base/java.io.FileInputStream.<init>(FileInputStream.java:106)
    at page_object_model.utilities.ConfigReader.<clinit>(ConfigReader.java:12)
    at page_object_model.utilities.BrowserFactory.lambda$new$0(BrowserFactory.java:14)
    at java.base/java.lang.ThreadLocal$SuppliedThreadLocal.initialValue(ThreadLocal.java:357)
    at java.base/java.lang.ThreadLocal.setInitialValue(ThreadLocal.java:225)
```

Cross-browser testing

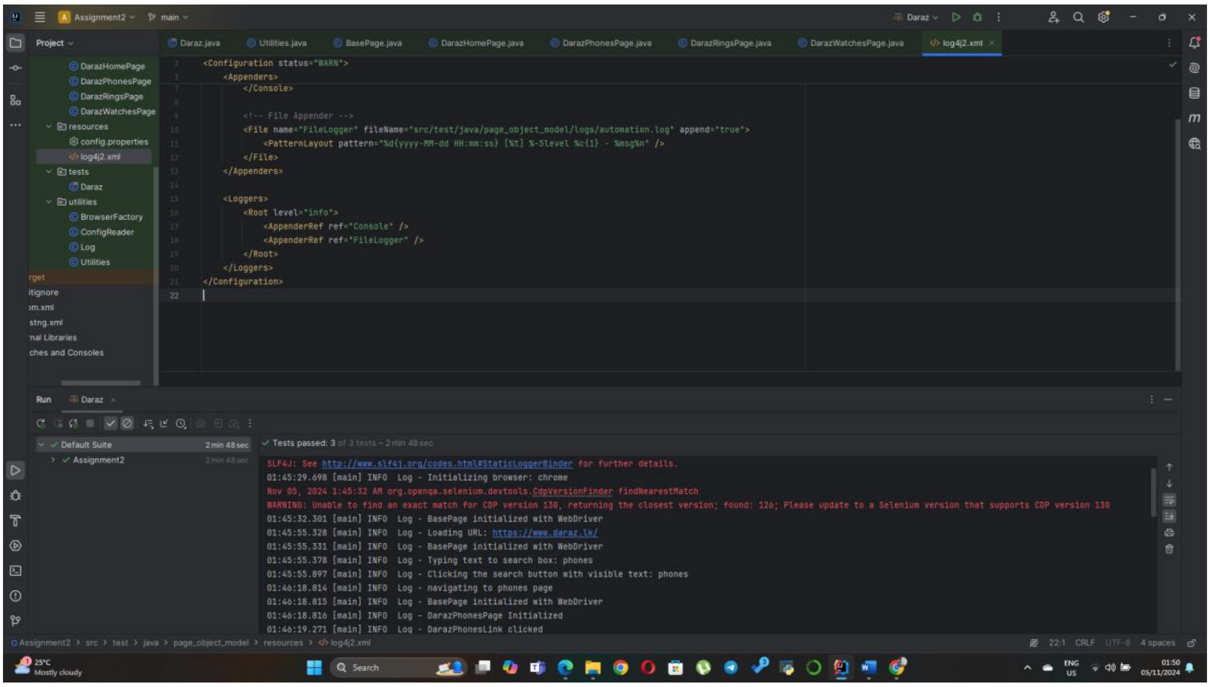
Edge


Homepage - Profile 1 - Microsoft Edge
Assignment2 – config.properties

Chrome


Buy phones Online at Best Price in Srilanka - Daraz.lk - Google Chrome
Assignment2 – config.properties

Logging

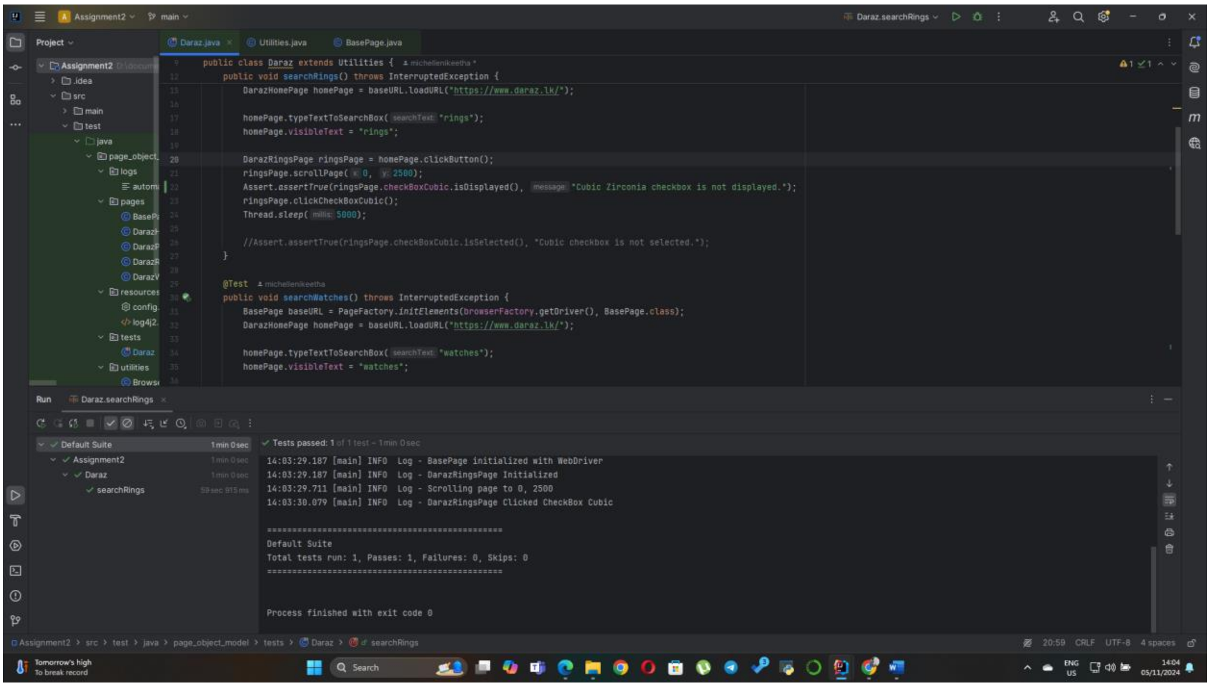


```xml
<Configuration status="WARN">
    <Appenders>
        </Console>

        <!-- File Appender -->
        <File name="FileLogger" fileName="src/test/java/page_object_model/logs/automation.log" append="true">
            <PatternLayout pattern="%d{yyyy-MM-dd HH:mm:ss} [%t] %-5level %c{1} - %msg%n" />
        </File>
    </Appenders>

    <Loggers>
        <Root level="info">
            <AppenderRef ref="Console" />
            <AppenderRef ref="FileLogger" />
        </Root>
    </Loggers>
</Configuration>
```

✓ Tests passed: 3 of 3 tests – 2 min 48 sec

```
SLF4J: See http://www.slf4j.org/codes.html#StaticLoggerBinder for further details.
01:45:29.698 [main] INFO  Log - Initializing browser: chrome
Nov 05, 2024 1:45:32 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 130, returning the closest version; found: 126; Please update to a Selenium version that supports CDP version 130
01:45:32.301 [main] INFO  Log - BasePage initialized with WebDriver
01:45:55.328 [main] INFO  Log - Loading URL: https://www.daraz.lk/
01:45:55.331 [main] INFO  Log - BasePage initialized with WebDriver
01:45:55.378 [main] INFO  Log - Typing text to search box: phones
01:45:55.897 [main] INFO  Log - Clicking the search button with visible text: phones
01:46:18.814 [main] INFO  Log - navigating to phones page
01:46:18.815 [main] INFO  Log - BasePage initialized with WebDriver
01:46:18.816 [main] INFO  Log - DarazPhonesPage Initialized
01:46:19.271 [main] INFO  Log - DarazPhonesLink clicked
```

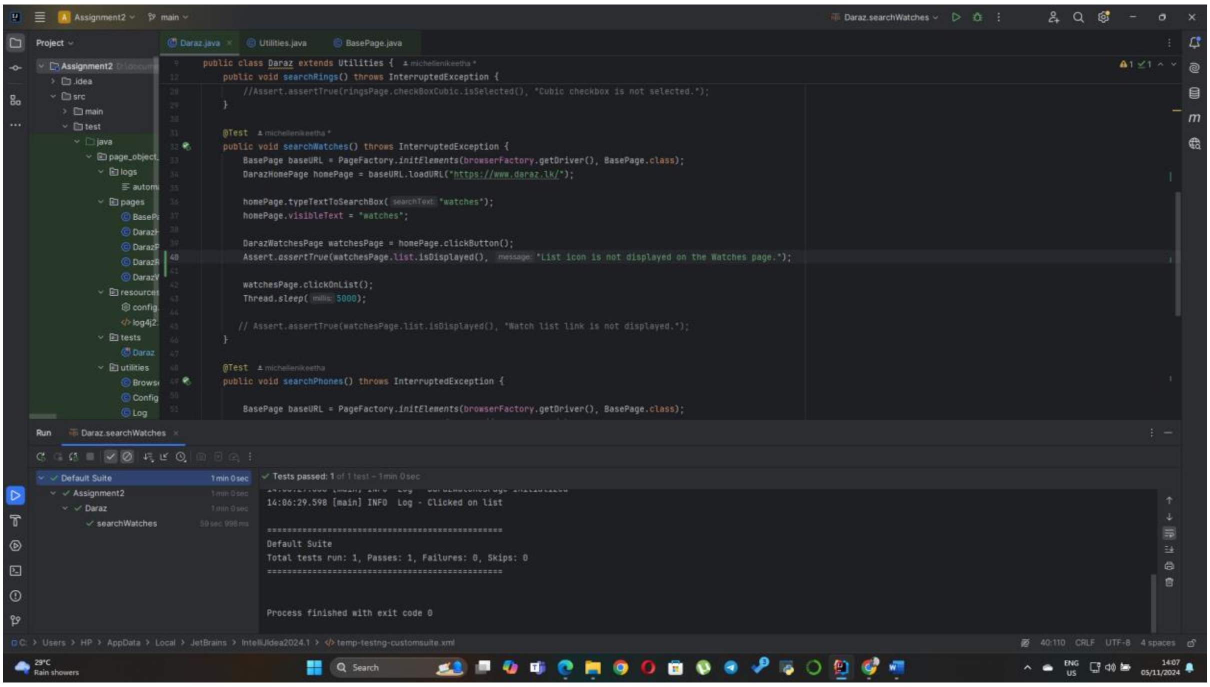
Assertions



```java
public class Daraz extends Utilities {
    public void searchRings() throws InterruptedException {
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "rings");
        homePage.visibleText = "rings";

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage( x: 0,  y: 2500);
        Assert.assertTrue(ringsPage.checkBoxCubic.isDisplayed(),  message: "Cubic Zirconia checkbox is not displayed.");
        ringsPage.clickCheckBoxCubic();
        Thread.sleep( millis: 5000);

        //Assert.assertTrue(ringsPage.checkBoxCubic.isSelected(), "Cubic checkbox is not selected.");
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "watches");
        homePage.visibleText = "watches";
```

Tests passed: 1 of 1 test – 1 min 0 sec

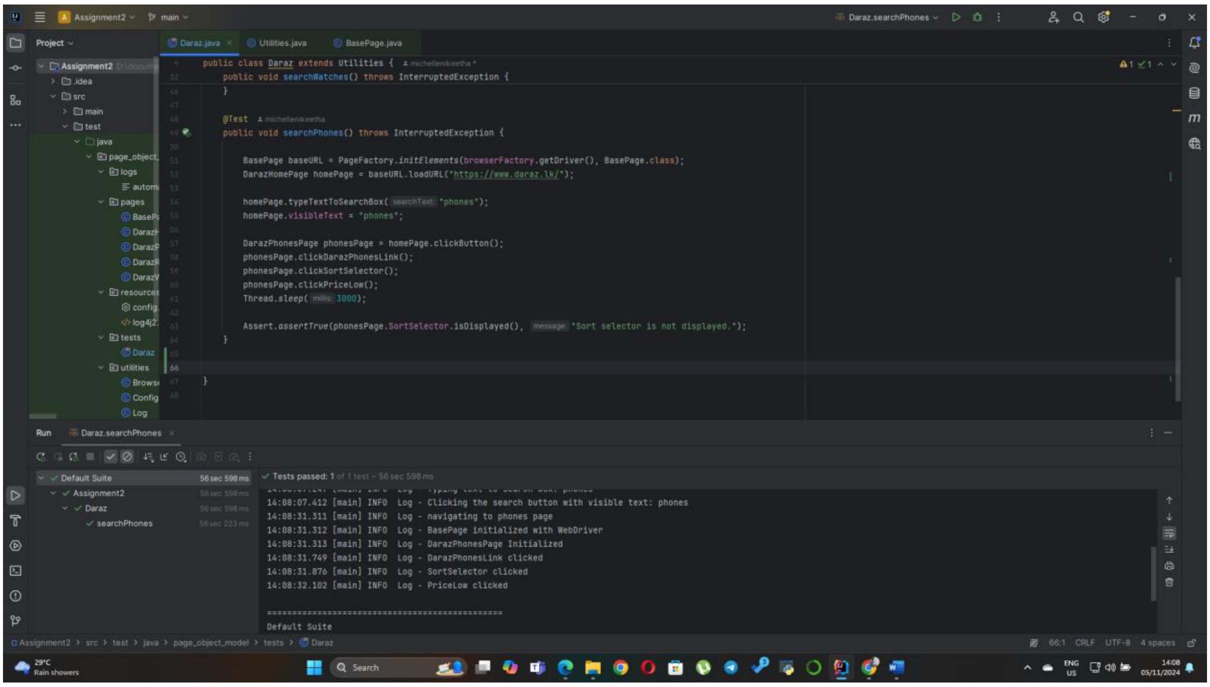
```
14:03:29.187 [main] INFO  Log - BasePage initialized with WebDriver
14:03:29.187 [main] INFO  Log - DarazRingsPage Initialized
14:03:29.711 [main] INFO  Log - Scrolling page to 0, 2500
14:03:30.079 [main] INFO  Log - DarazRingsPage Clicked CheckBox Cubic

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```



```java
public class Daraz extends Utilities {
    public void searchRings() throws InterruptedException {
        //Assert.assertTrue(ringsPage.checkBoxCubic.isSelected(), "Cubic checkbox is not selected.");
    }

    @Test
    public void searchWatches() throws InterruptedException {
        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox( searchText: "watches");
        homePage.visibleText = "watches";

        DarazWatchesPage watchesPage = homePage.clickButton();
        Assert.assertTrue(watchesPage.list.isDisplayed(),  message: "List icon is not displayed on the Watches page.");

        watchesPage.clickOnList();
        Thread.sleep( millis: 5000);

       // Assert.assertTrue(watchesPage.list.isDisplayed(), "Watch list link is not displayed.");
    }

    @Test
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
```

Tests passed: 1 of 1 test – 1 min 0 sec

```
14:06:29.598 [main] INFO  Log - Clicked on list

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```

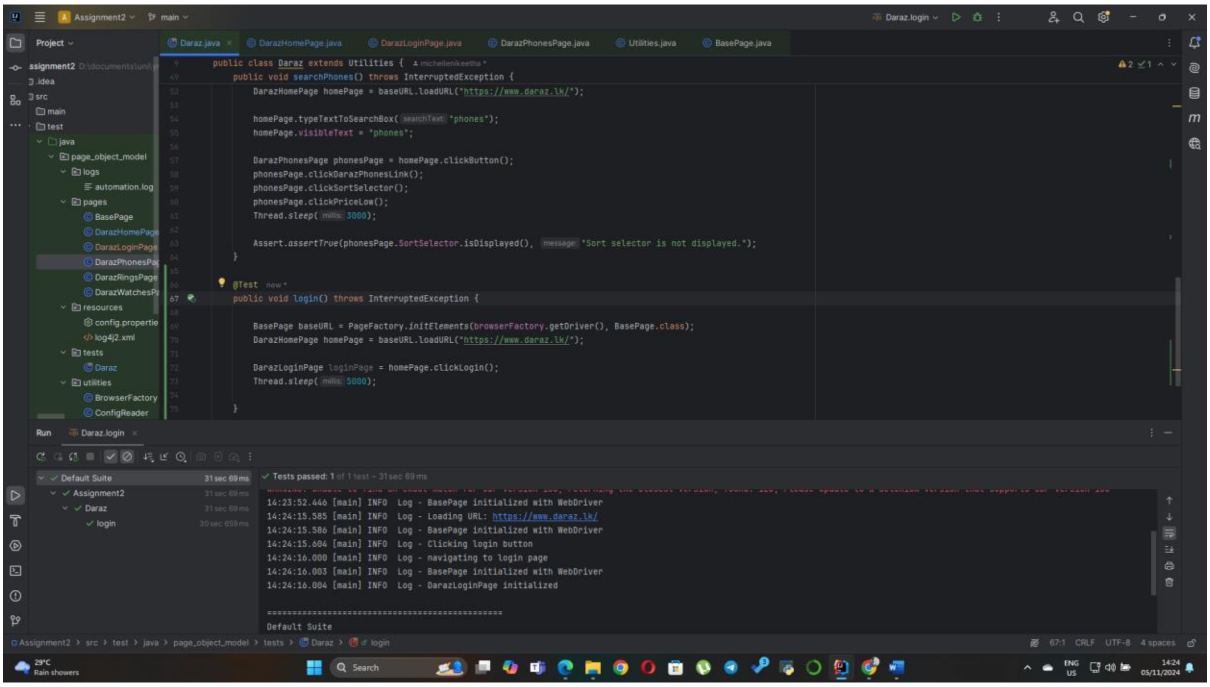


```java
public class Daraz extends Utilities {
    public void searchWatches() throws InterruptedException {
    }

    @Test
    public void searchPhones() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("phones");
        homePage.visibleText = "phones";

        DarazPhonesPage phonesPage = homePage.clickButton();
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep(3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(), "Sort selector is not displayed.");
    }

}
```

Tests passed: 1 of 1 test – 56 sec 598 ms

```
14:08:07.412 [main] INFO  Log - Clicking the search button with visible text: phones
14:08:31.311 [main] INFO  Log - navigating to phones page
14:08:31.312 [main] INFO  Log - BasePage initialized with WebDriver
14:08:31.313 [main] INFO  Log - DarazPhonesPage Initialized
14:08:31.749 [main] INFO  Log - DarazPhonesLink clicked
14:08:31.876 [main] INFO  Log - SortSelector clicked
14:08:32.102 [main] INFO  Log - PriceLow clicked

===============================================
Default Suite
```

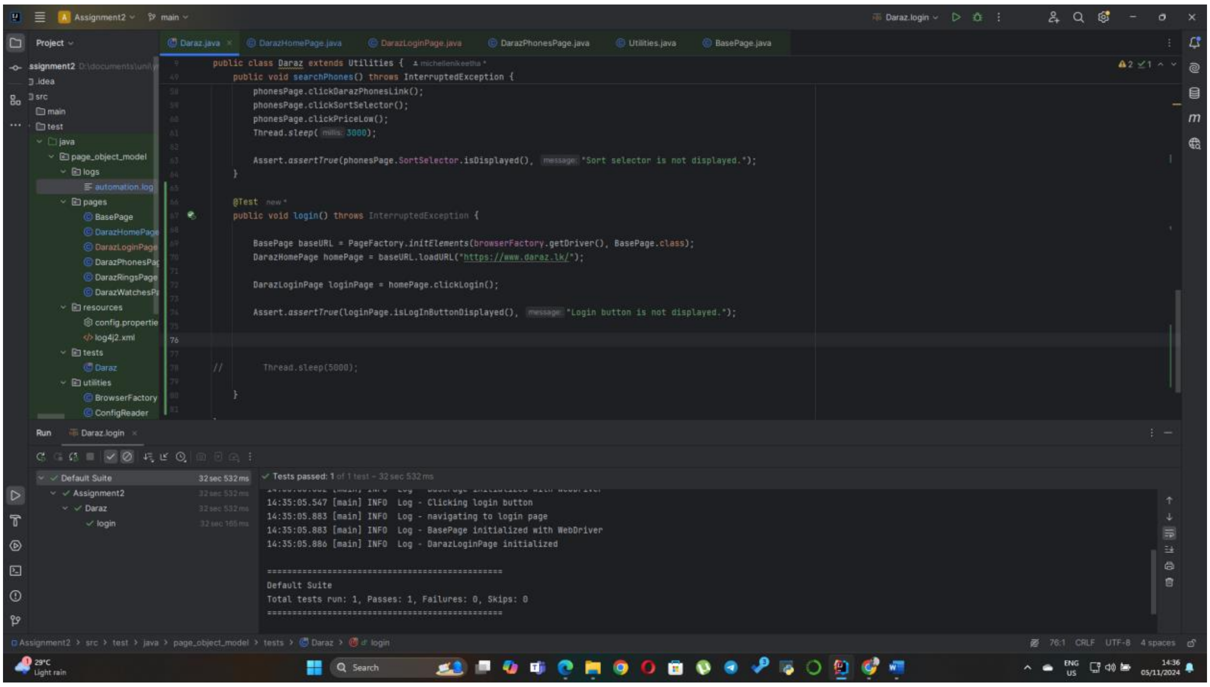
Login Page



```java
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("phones");
        homePage.visibleText = "phones";

        DarazPhonesPage phonesPage = homePage.clickButton();
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep(3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(), "Sort selector is not displayed.");
    }

    @Test
    public void login() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();
        Thread.sleep(5000);

    }
```

Tests passed: 1 of 1 test – 31 sec 69 ms

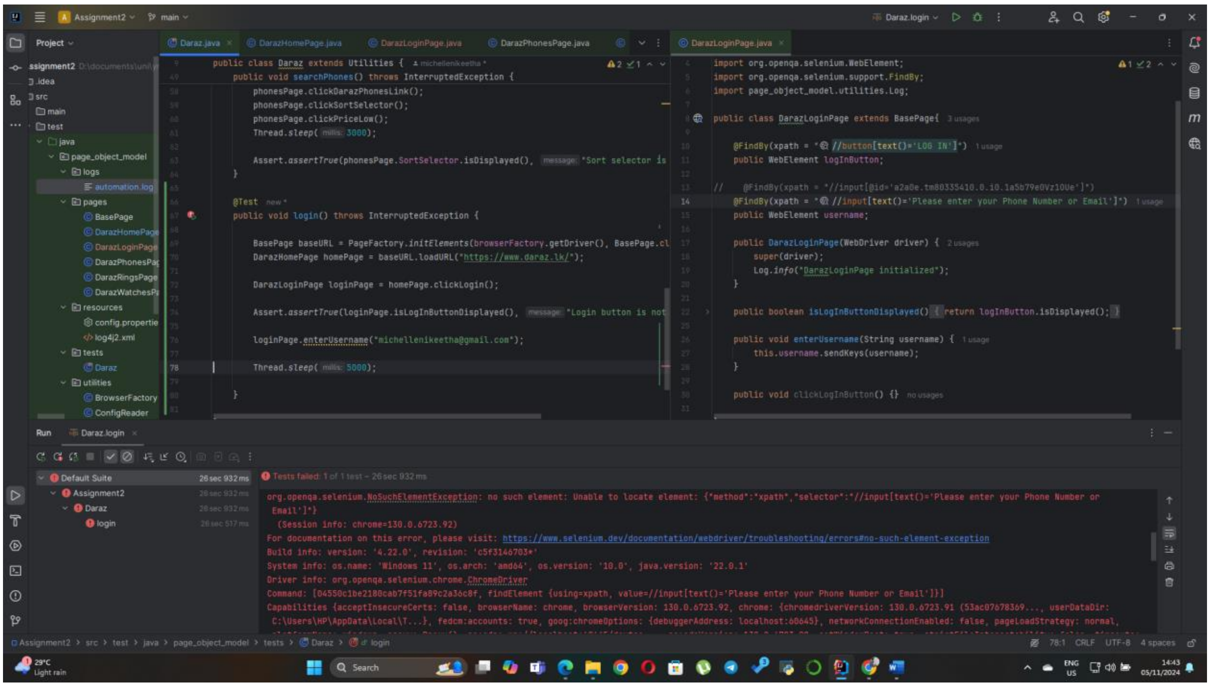
```
14:23:52.446 [main] INFO  Log - BasePage initialized with WebDriver
14:24:15.585 [main] INFO  Log - Loading URL: https://www.daraz.lk/
14:24:15.586 [main] INFO  Log - BasePage initialized with WebDriver
14:24:15.604 [main] INFO  Log - Clicking login button
14:24:16.000 [main] INFO  Log - navigating to login page
14:24:16.003 [main] INFO  Log - BasePage initialized with WebDriver
14:24:16.004 [main] INFO  Log - DarazLoginPage initialized

===============================================
Default Suite
```



```
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep( millis: 3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(),  message: "Sort selector is not displayed.");
    }

    @Test
    public void login() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();

        Assert.assertTrue(loginPage.isLogInButtonDisplayed(),  message: "Login button is not displayed.");



//        Thread.sleep(5000);

    }
```

✓ Tests passed: 1 of 1 test – 32 sec 532 ms

```
14:35:05.547 [main] INFO  Log - Clicking login button
14:35:05.883 [main] INFO  Log - navigating to login page
14:35:05.883 [main] INFO  Log - BasePage initialized with WebDriver
14:35:05.886 [main] INFO  Log - DarazLoginPage initialized

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================
```



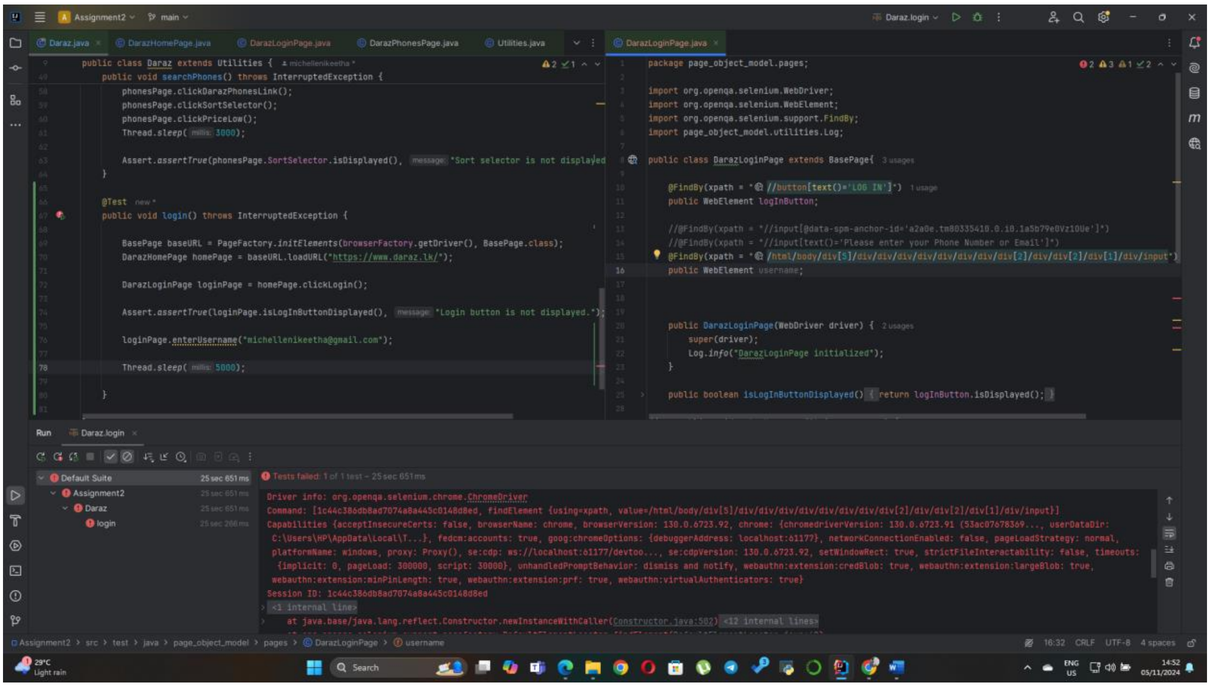
```
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep( millis: 3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(),  message: "Sort selector is
    }

    @Test
    public void login() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.cl
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();

        Assert.assertTrue(loginPage.isLogInButtonDisplayed(),  message: "Login button is not

        loginPage.enterUsername("michellenikeetha@gmail.com");

        Thread.sleep( millis: 5000);

    }
```

```
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import page_object_model.utilities.Log;

public class DarazLoginPage extends BasePage{

    @FindBy(xpath = "//button[text()='LOG IN']")
    public WebElement logInButton;

//    @FindBy(xpath = "//input[@id='a2a0e.tm80335410.0.10.1a5b79e0Vz10Ue']")
    @FindBy(xpath = "//input[text()='Please enter your Phone Number or Email']")
    public WebElement username;

    public DarazLoginPage(WebDriver driver) {
        super(driver);
        Log.info("DarazLoginPage initialized");
    }

    public boolean isLogInButtonDisplayed() { return logInButton.isDisplayed(); }

    public void enterUsername(String username) {
        this.username.sendKeys(username);
    }

    public void clickLogInButton() {}
```

Tests failed: 1 of 1 test – 26 sec 932 ms

```
org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//input[text()='Please enter your Phone Number or
 Email']"}
  (Session info: chrome=130.0.6723.92)
For documentation on this error, please visit: https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#no-such-element-exception
Build info: version: '4.22.0', revision: 'c5f3146703*'
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '22.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [04550c1be2180cab7f51fa89c2a36c8f, findElement {using=xpath, value=//input[text()='Please enter your Phone Number or Email']}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:60645}, networkConnectionEnabled: false, pageLoadStrategy: normal,
```

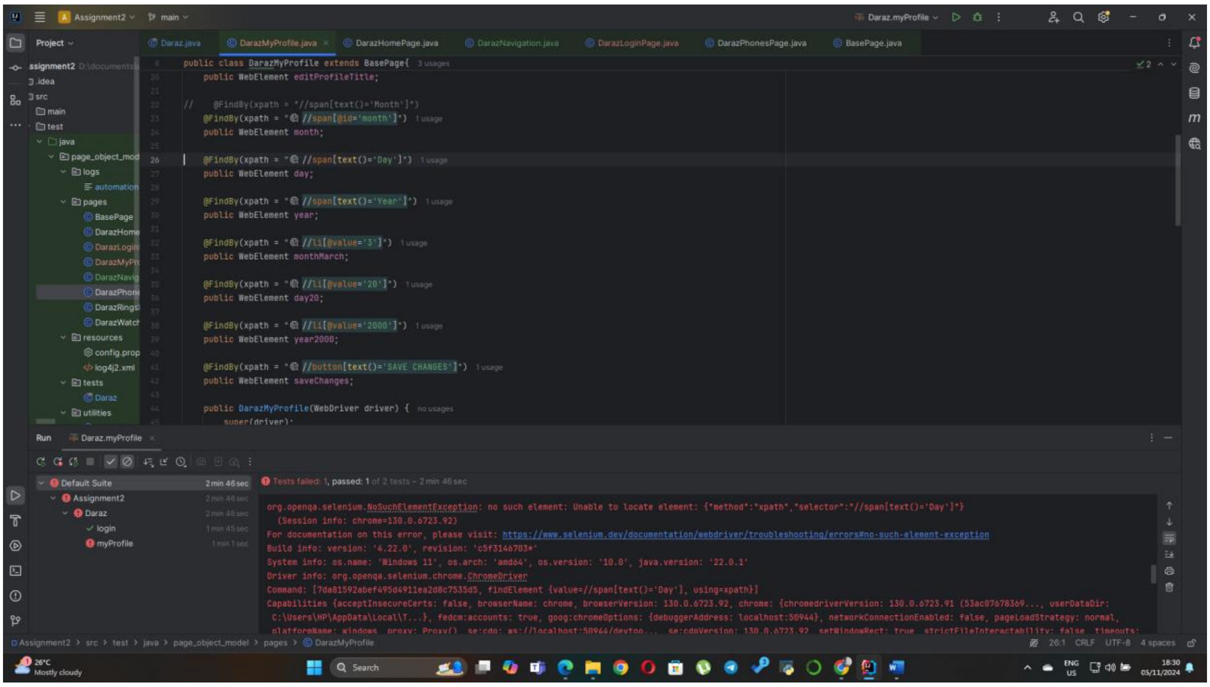
My Profile



```java
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {
        phonesPage.clickDarazPhonesLink();
        phonesPage.clickSortSelector();
        phonesPage.clickPriceLow();
        Thread.sleep( millis: 3000);

        Assert.assertTrue(phonesPage.SortSelector.isDisplayed(),  message: "Sort selector is not displayed
    }

    @Test
    public void login() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();

        Assert.assertTrue(loginPage.isLogInButtonDisplayed(),  message: "Login button is not displayed.");

        loginPage.enterUsername("michellenikeetha@gmail.com");

        Thread.sleep( millis: 5000);

    }
```

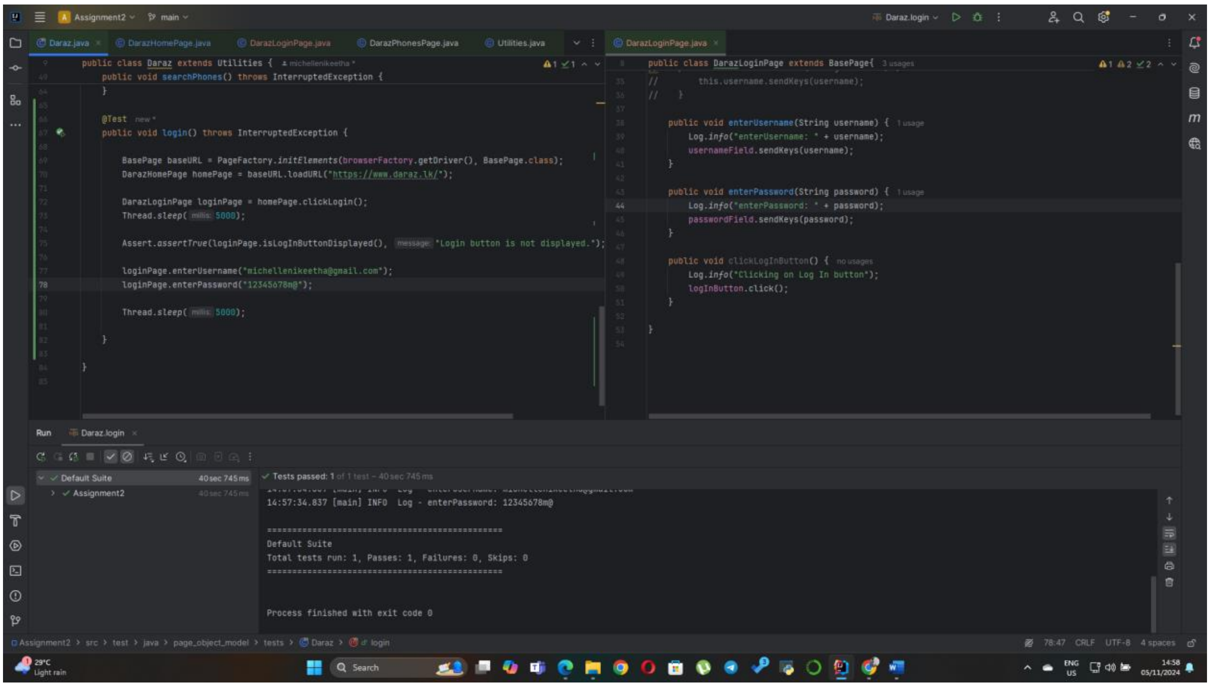
```java
package page_object_model.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import page_object_model.utilities.Log;

public class DarazLoginPage extends BasePage{

    @FindBy(xpath = "//button[text()='LOG IN']")
    public WebElement logInButton;

    //@FindBy(xpath = "//input[@data-spm-anchor-id='a2a0e.tm80335410.0.i0.1a5b79e0Vz10Ue']")
    //@FindBy(xpath = "//input[text()='Please enter your Phone Number or Email']")
    @FindBy(xpath = "/html/body/div[5]/div/div/div/div/div/div/div/div[2]/div/div[2]/div[1]/div/input")
    public WebElement username;



    public DarazLoginPage(WebDriver driver) {
        super(driver);
        Log.info("DarazLoginPage initialized");
    }

    public boolean isLogInButtonDisplayed() { return logInButton.isDisplayed(); }
```

```
Tests failed: 1 of 1 test – 25 sec 651 ms

Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [1c44c386db8ad7074a8a445c0148d8ed, findElement {using=xpath, value=/html/body/div[5]/div/div/div/div/div/div/div/div[2]/div/div[2]/div[1]/div/input}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:61177}, networkConnectionEnabled: false, pageLoadStrategy: normal,
 platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:61177/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
  {implicit: 0, pageLoad: 300000, script: 30000}, unhandledPromptBehavior: dismiss and notify, webauthn:extension:credBlob: true, webauthn:extension:largeBlob: true,
 webauthn:extension:minPinLength: true, webauthn:extension:prf: true, webauthn:virtualAuthenticators: true}
Session ID: 1c44c386db8ad7074a8a445c0148d8ed
 <1 internal line>
    at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:502) <12 internal lines>
```



```java
public class DarazMyProfile extends BasePage{
    public WebElement editProfileTitle;

//    @FindBy(xpath = "//span[text()='Month']")
    @FindBy(xpath = "//span[@id='month']")
    public WebElement month;

    @FindBy(xpath = "//span[text()='Day']")
    public WebElement day;

    @FindBy(xpath = "//span[text()='Year']")
    public WebElement year;

    @FindBy(xpath = "//li[@value='3']")
    public WebElement monthMarch;

    @FindBy(xpath = "//li[@value='20']")
    public WebElement day20;

    @FindBy(xpath = "//li[@value='2000']")
    public WebElement year2000;

    @FindBy(xpath = "//button[text()='SAVE CHANGES']")
    public WebElement saveChanges;

    public DarazMyProfile(WebDriver driver) {
        super(driver);
```

```
Tests failed: 1, passed: 1 of 2 tests – 2 min 46 sec

org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//span[text()='Day']"}
  (Session info: chrome=130.0.6723.92)
For documentation on this error, please visit: https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#no-such-element-exception
Build info: version: '4.22.0', revision: 'c5f3146703*'
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '22.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [7da81592abef495d4911ea2d8c7535d5, findElement {value=//span[text()='Day'], using=xpath}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:50944}, networkConnectionEnabled: false, pageLoadStrategy: normal,
 platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:50944/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
```

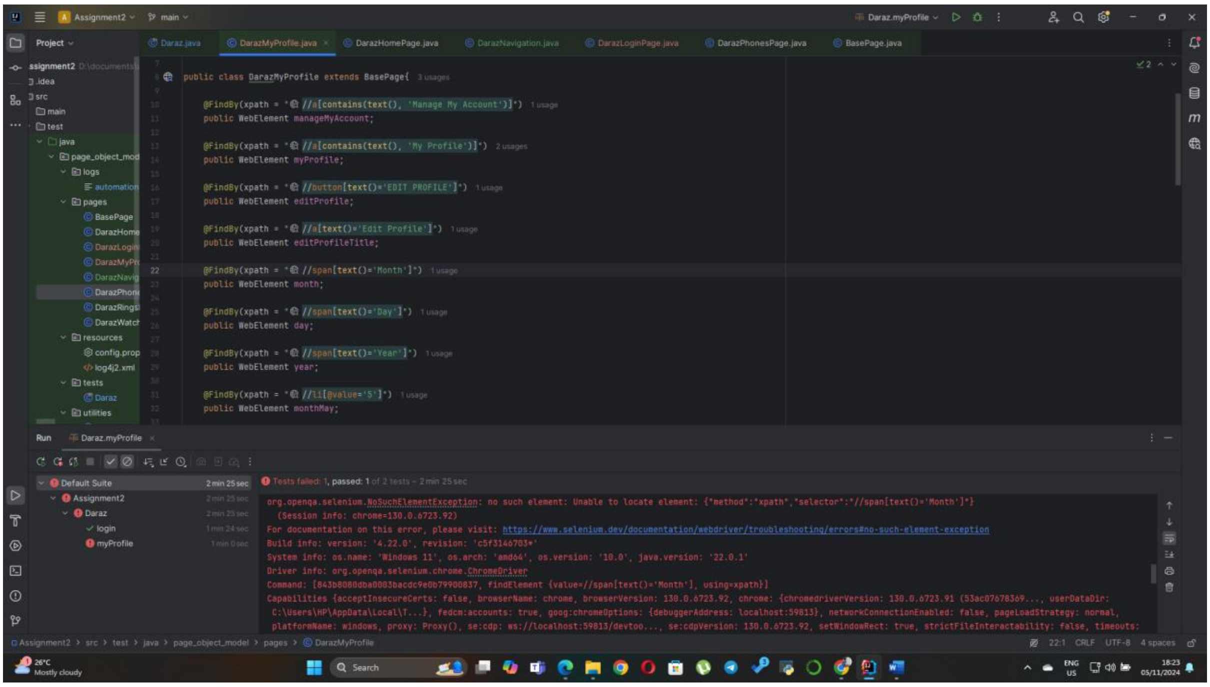


```java
public class Daraz extends Utilities {
    public void searchPhones() throws InterruptedException {
    }

    @Test
    public void login() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();
        Thread.sleep( millis: 5000);

        Assert.assertTrue(loginPage.isLogInButtonDisplayed(),  message: "Login button is not displayed.");

        loginPage.enterUsername("michellenikeetha@gmail.com");
        loginPage.enterPassword("12345678m@");

        Thread.sleep( millis: 5000);

    }

}
```

```java
public class DarazLoginPage extends BasePage{
//        this.username.sendKeys(username);
//    }

    public void enterUsername(String username) {
        Log.info("enterUsername: " + username);
        usernameField.sendKeys(username);
    }

    public void enterPassword(String password) {
        Log.info("enterPassword: " + password);
        passwordField.sendKeys(password);
    }

    public void clickLogInButton() {
        Log.info("Clicking on Log In button");
        logInButton.click();
    }

}
```

Tests passed: 1 of 1 test – 40 sec 745 ms

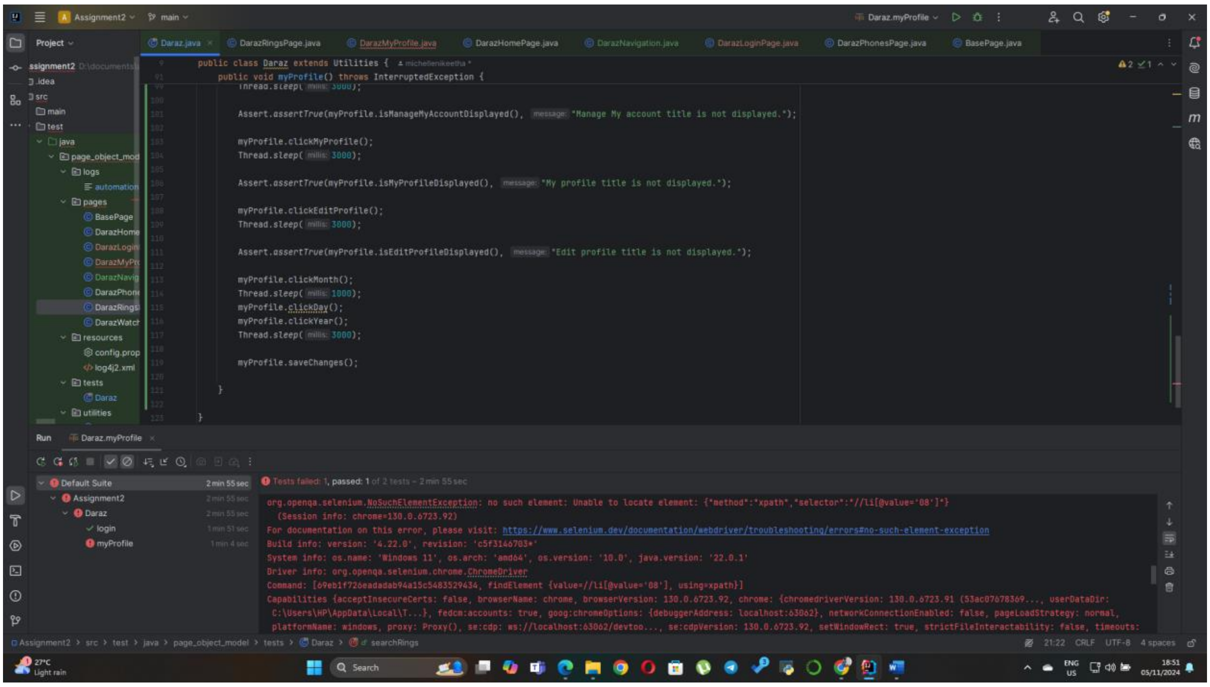
```
14:57:34.837 [main] INFO  Log - enterPassword: 12345678m@

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```



```java
public class DarazMyProfile extends BasePage{

    @FindBy(xpath = "//a[contains(text(), 'Manage My Account')]")
    public WebElement manageMyAccount;

    @FindBy(xpath = "//a[contains(text(), 'My Profile')]")
    public WebElement myProfile;

    @FindBy(xpath = "//button[text()='EDIT PROFILE']")
    public WebElement editProfile;

    @FindBy(xpath = "//a[text()='Edit Profile']")
    public WebElement editProfileTitle;

    @FindBy(xpath = "//span[text()='Month']")
    public WebElement month;

    @FindBy(xpath = "//span[text()='Day']")
    public WebElement day;

    @FindBy(xpath = "//span[text()='Year']")
    public WebElement year;

    @FindBy(xpath = "//li[@value='5']")
    public WebElement monthMay;
```

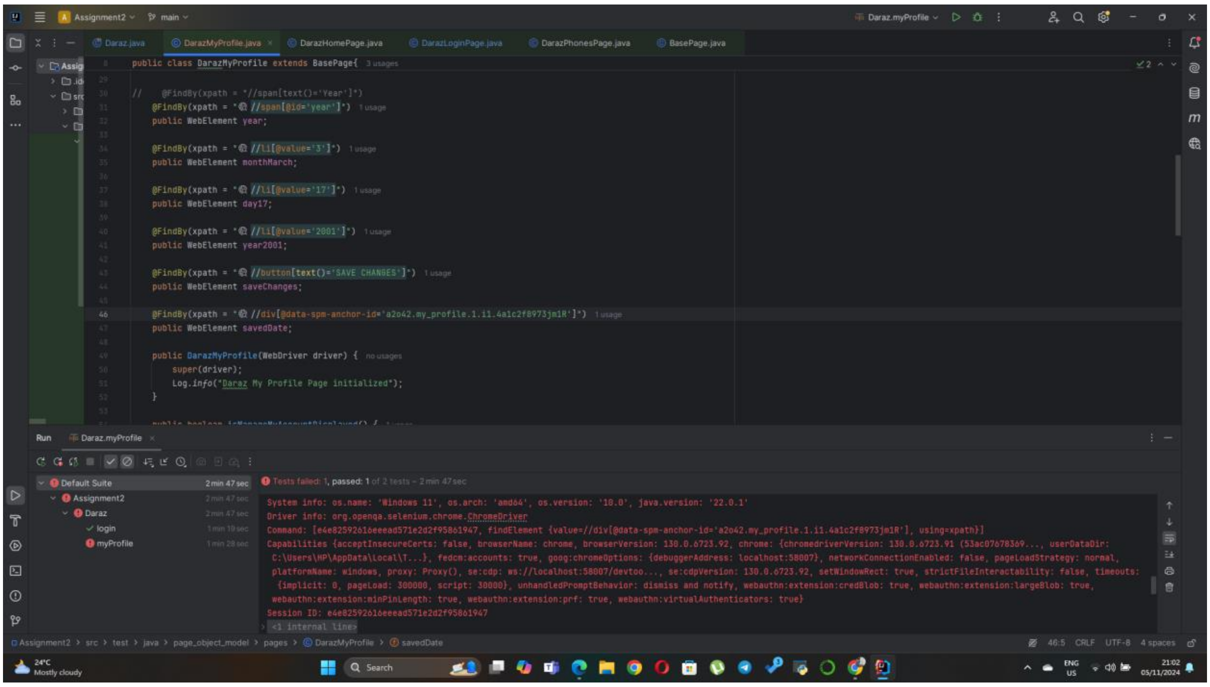
Tests failed: 1, passed: 1 of 2 tests – 2 min 25 sec

```
org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//span[text()='Month']"}
  (Session info: chrome=130.0.6723.92)
For documentation on this error, please visit: https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#no-such-element-exception
Build info: version: '4.22.0', revision: 'c5f3146703*'
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '22.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [843b8080dba0003bacdc9e0b79900837, findElement {value=//span[text()='Month'], using=xpath}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:59813}, networkConnectionEnabled: false, pageLoadStrategy: normal,
 platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:59813/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
```



```
public class Daraz extends Utilities {
    public void myProfile() throws InterruptedException {
        Thread.sleep(3000);

        Assert.assertTrue(myProfile.isManageMyAccountDisplayed(), "Manage My account title is not displayed.");

        myProfile.clickMyProfile();
        Thread.sleep(3000);

        Assert.assertTrue(myProfile.isMyProfileDisplayed(), "My profile title is not displayed.");

        myProfile.clickEditProfile();
        Thread.sleep(3000);

        Assert.assertTrue(myProfile.isEditProfileDisplayed(), "Edit profile title is not displayed.");

        myProfile.clickMonth();
        Thread.sleep(1000);
        myProfile.clickDay();
        myProfile.clickYear();
        Thread.sleep(3000);

        myProfile.saveChanges();

    }

}
```

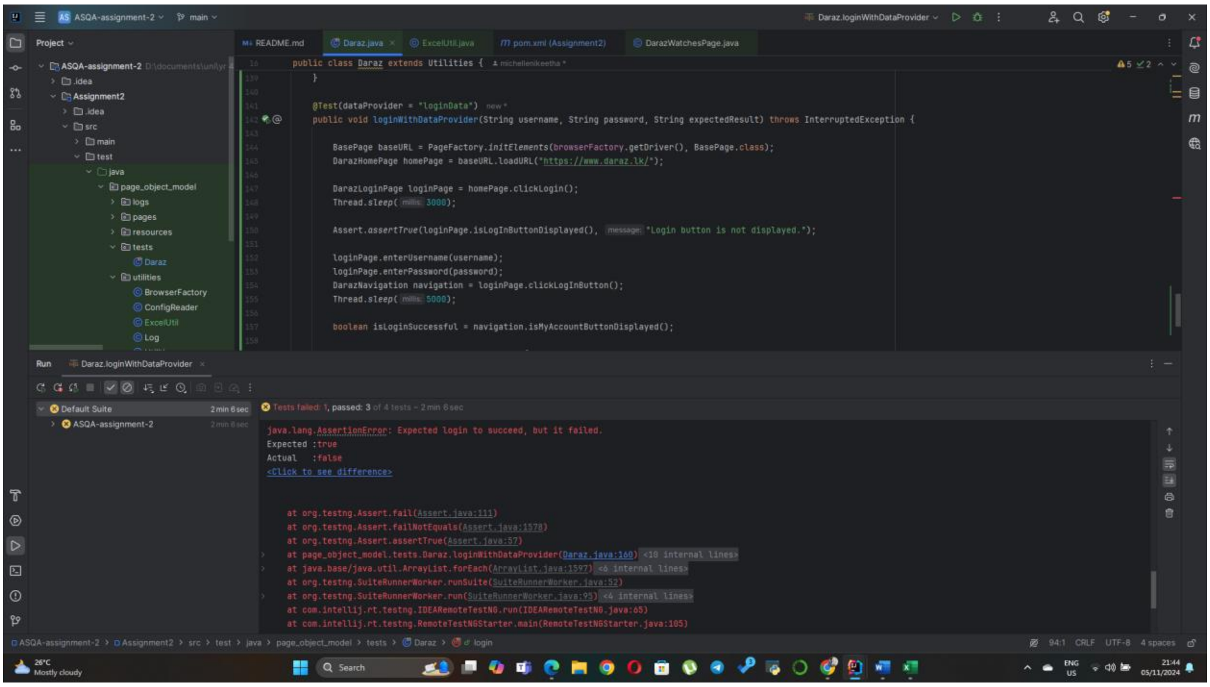
```
Tests failed: 1, passed: 1 of 2 tests – 2 min 55 sec
org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element: {"method":"xpath","selector":"//li[@value='08']"}
  (Session info: chrome=130.0.6723.92)
For documentation on this error, please visit: https://www.selenium.dev/documentation/webdriver/troubleshooting/errors#no-such-element-exception
Build info: version: '4.22.0', revision: 'c5f3146703*'
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '22.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [69eb1f726eadadab94a15c5483529434, findElement {value=//li[@value='08'], using=xpath}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:63062}, networkConnectionEnabled: false, pageLoadStrategy: normal,
 platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:63062/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
```



```
public class DarazMyProfile extends BasePage{

//    @FindBy(xpath = "//span[text()='Year']")
    @FindBy(xpath = "//span[@id='year']")
    public WebElement year;

    @FindBy(xpath = "//li[@value='3']")
    public WebElement monthMarch;

    @FindBy(xpath = "//li[@value='17']")
    public WebElement day17;

    @FindBy(xpath = "//li[@value='2001']")
    public WebElement year2001;

    @FindBy(xpath = "//button[text()='SAVE CHANGES']")
    public WebElement saveChanges;

    @FindBy(xpath = "//div[@data-spm-anchor-id='a2o42.my_profile.1.i1.4a1c2f8973jm1R']")
    public WebElement savedDate;

    public DarazMyProfile(WebDriver driver) {
        super(driver);
        Log.info("Daraz My Profile Page initialized");
    }
```

```
Tests failed: 1, passed: 1 of 2 tests – 2 min 47 sec
System info: os.name: 'Windows 11', os.arch: 'amd64', os.version: '10.0', java.version: '22.0.1'
Driver info: org.openqa.selenium.chrome.ChromeDriver
Command: [e4e82592616eeead571e2d2f95861947, findElement {value=//div[@data-spm-anchor-id='a2o42.my_profile.1.i1.4a1c2f8973jm1R'], using=xpath}]
Capabilities {acceptInsecureCerts: false, browserName: chrome, browserVersion: 130.0.6723.92, chrome: {chromedriverVersion: 130.0.6723.91 (53ac07678369..., userDataDir:
 C:\Users\HP\AppData\Local\T...}, fedcm:accounts: true, goog:chromeOptions: {debuggerAddress: localhost:58007}, networkConnectionEnabled: false, pageLoadStrategy: normal,
 platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:58007/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
  {implicit: 0, pageLoad: 300000, script: 30000}, unhandledPromptBehavior: dismiss and notify, webauthn:extension:credBlob: true, webauthn:extension:largeBlob: true,
 webauthn:extension:minPinLength: true, webauthn:extension:prf: true, webauthn:virtualAuthenticators: true}
Session ID: e4e82592616eeead571e2d2f95861947
<1 internal line>
```

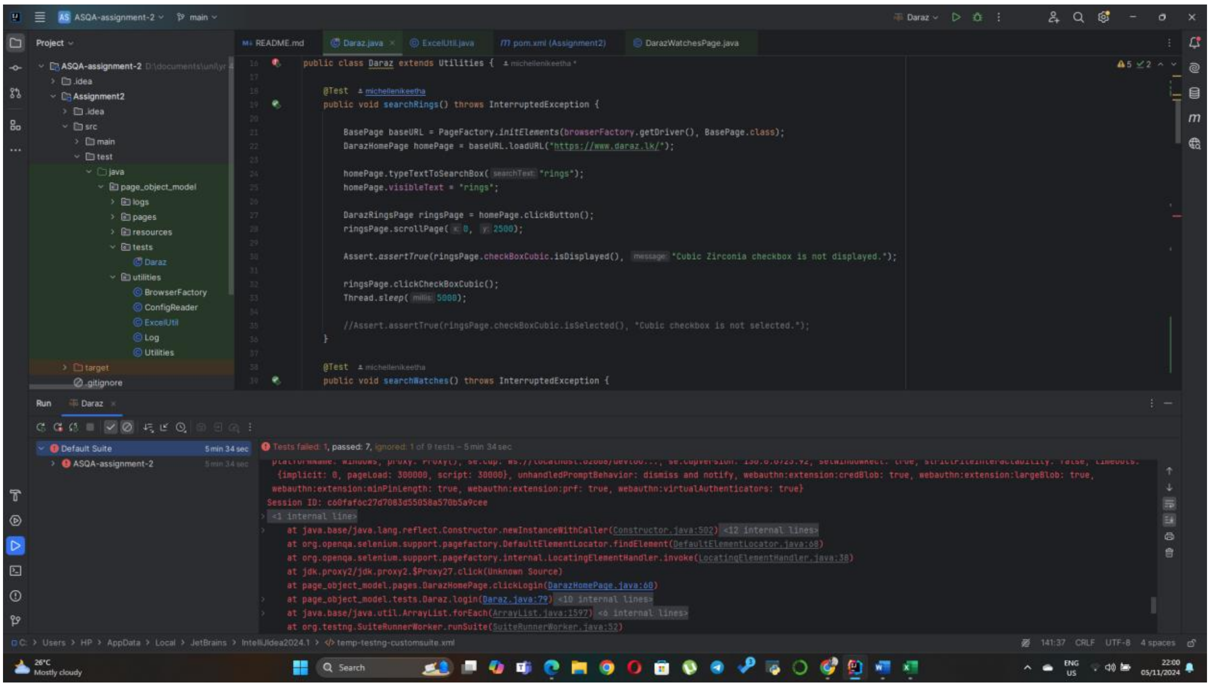
Data Provider



```java
public class Daraz extends Utilities {
    }

    @Test(dataProvider = "loginData")
    public void loginWithDataProvider(String username, String password, String expectedResult) throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        DarazLoginPage loginPage = homePage.clickLogin();
        Thread.sleep(3000);

        Assert.assertTrue(loginPage.isLogInButtonDisplayed(), "Login button is not displayed.");

        loginPage.enterUsername(username);
        loginPage.enterPassword(password);
        DarazNavigation navigation = loginPage.clickLogInButton();
        Thread.sleep(5000);

        boolean isLoginSuccessful = navigation.isMyAccountButtonDisplayed();
```

Tests failed: 1, passed: 3 of 4 tests – 2 min 6 sec

```
java.lang.AssertionError: Expected login to succeed, but it failed.
Expected :true
Actual   :false
<Click to see difference>


    at org.testng.Assert.fail(Assert.java:111)
    at org.testng.Assert.failNotEquals(Assert.java:1578)
    at org.testng.Assert.assertTrue(Assert.java:57)
    at page_object_model.tests.Daraz.loginWithDataProvider(Daraz.java:160) <10 internal lines>
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1597) <6 internal lines>
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
    at org.testng.SuiteRunnerWorker.run(SuiteRunnerWorker.java:95) <4 internal lines>
    at com.intellij.rt.testng.IDEARemoteTestNG.run(IDEARemoteTestNG.java:65)
    at com.intellij.rt.testng.RemoteTestNGStarter.main(RemoteTestNGStarter.java:105)
```



```java
public class Daraz extends Utilities {

    @Test
    public void searchRings() throws InterruptedException {

        BasePage baseURL = PageFactory.initElements(browserFactory.getDriver(), BasePage.class);
        DarazHomePage homePage = baseURL.loadURL("https://www.daraz.lk/");

        homePage.typeTextToSearchBox("rings");
        homePage.visibleText = "rings";

        DarazRingsPage ringsPage = homePage.clickButton();
        ringsPage.scrollPage(0, 2500);

        Assert.assertTrue(ringsPage.checkBoxCubic.isDisplayed(), "Cubic Zirconia checkbox is not displayed.");

        ringsPage.clickCheckBoxCubic();
        Thread.sleep(5000);

        //Assert.assertTrue(ringsPage.checkBoxCubic.isSelected(), "Cubic checkbox is not selected.");
    }

    @Test
    public void searchWatches() throws InterruptedException {
```

Tests failed: 1, passed: 7, ignored: 1 of 9 tests – 5 min 34 sec

```
platformName: windows, proxy: Proxy(), se:cdp: ws://localhost:62088/devtoo..., se:cdpVersion: 130.0.6723.92, setWindowRect: true, strictFileInteractability: false, timeouts:
 {implicit: 0, pageLoad: 300000, script: 30000}, unhandledPromptBehavior: dismiss and notify, webauthn:extension:credBlob: true, webauthn:extension:largeBlob: true,
webauthn:extension:minPinLength: true, webauthn:extension:prf: true, webauthn:virtualAuthenticators: true}
Session ID: c60fafoc27d7083d55058a570b5a9cee
<1 internal line>
    at java.base/java.lang.reflect.Constructor.newInstanceWithCaller(Constructor.java:502) <12 internal lines>
    at org.openqa.selenium.support.pagefactory.DefaultElementLocator.findElement(DefaultElementLocator.java:68)
    at org.openqa.selenium.support.pagefactory.internal.LocatingElementHandler.invoke(LocatingElementHandler.java:38)
    at jdk.proxy2/jdk.proxy2.$Proxy27.click(Unknown Source)
    at page_object_model.pages.DarazHomePage.clickLogin(DarazHomePage.java:60)
    at page_object_model.tests.Daraz.login(Daraz.java:79) <10 internal lines>
    at java.base/java.util.ArrayList.forEach(ArrayList.java:1597) <6 internal lines>
    at org.testng.SuiteRunnerWorker.runSuite(SuiteRunnerWorker.java:52)
```