

Software quality Assurance Trainee 2023

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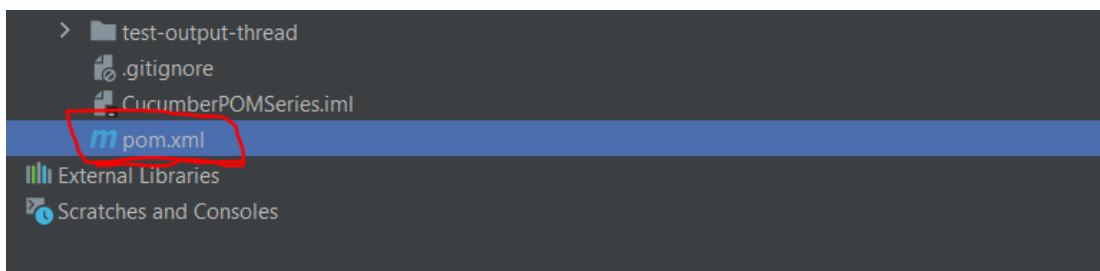
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### Title: **Software Quality Assurance Trainee 2023 Project details.**

**Project details:** First of all, I read the instruction. Then I did the project setup.

I create a project folder and open it on the selenium framework.

#### **1. I added all requirement dependency, plugin and properties in the POM .xml file.**



```
<dependency>
  <groupId>io.cucumber</groupId>
  <artifactId>cucumber-java</artifactId>
  <version>${cucumber.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>io.cucumber</groupId>
  <artifactId>cucumber-junit</artifactId>
  <version>${cucumber.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>junit</groupId>
  <artifactId>junit</artifactId>
  <version>${junit.version}</version>
  <scope>test</scope>
</dependency>

<dependency>
```

```
<dependency>
  <groupId>org.seleniumhq.selenium</groupId>
  <artifactId>selenium-java</artifactId>
  <version>3.141.59</version>
</dependency>

<dependency>
  <groupId>io.github.bonigarcia</groupId>
  <artifactId>webdrivermanager</artifactId>
  <version>4.2.2</version>
</dependency>

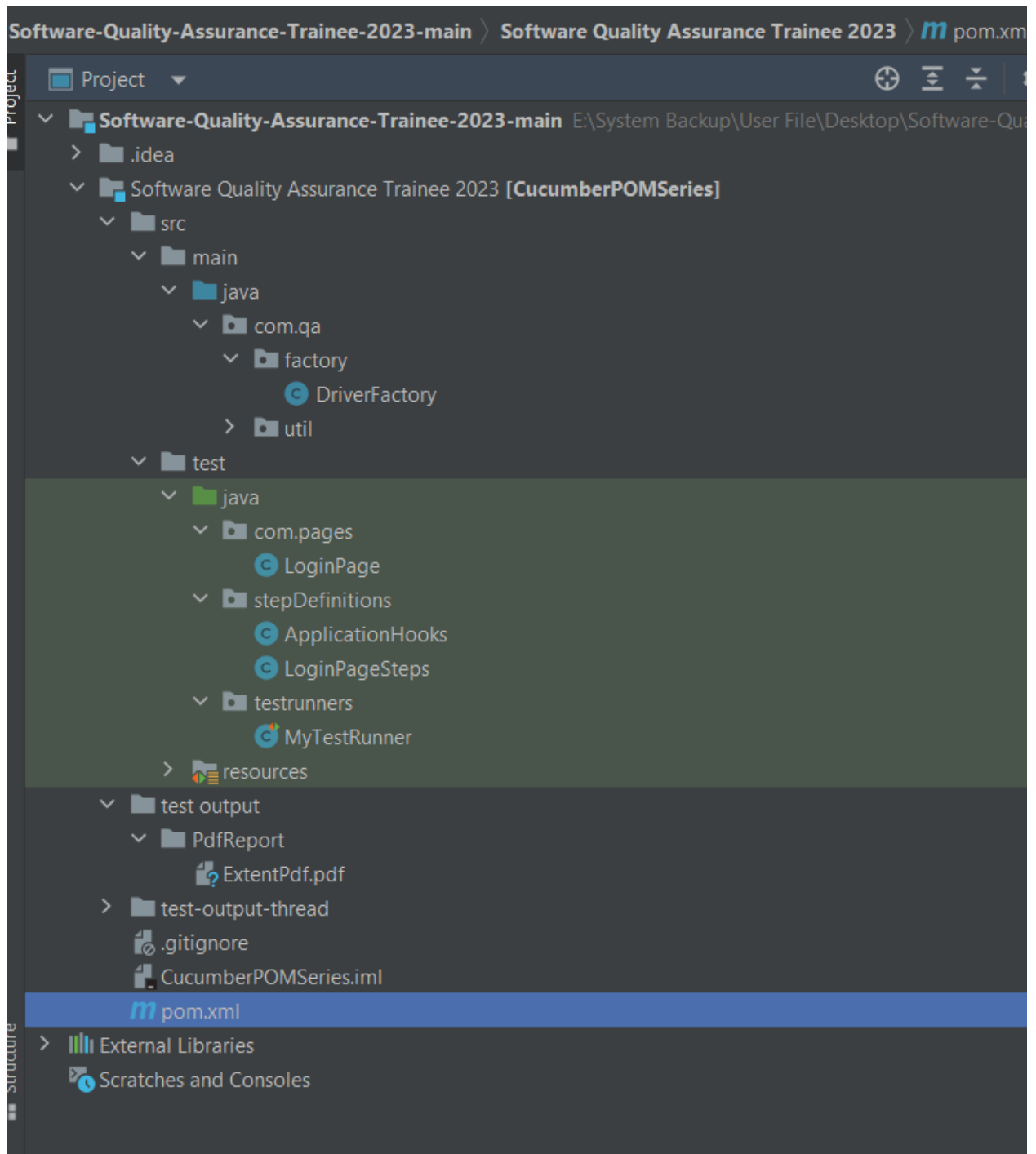
<dependency>
  <groupId>tech.grasshopper</groupId>
  <artifactId>extentreports-cucumber6-adapter</artifactId>
  <version>2.8.0</version>
  <scope>test</scope>
</dependency>

<dependency>
  <groupId>org.testng</groupId>
  <artifactId>testng</artifactId>
  <version>6.14.3</version>
  <scope>test</scope>
</dependency>
```

```
<dependency>
  <groupId>io.github.bonigarcia</groupId>
  <artifactId>webdrivermanager</artifactId>
  <version>4.2.2</version>
</dependency>

<dependency>
  <groupId>tech.grasshopper</groupId>
  <artifactId>extentreports-cucumber6-adapter</artifactId>
  <version>2.8.0</version>
  <scope>test</scope>
</dependency>
```

## 2. Create all required packages and files.



**3. Test Runner File:** The test runner file contains the path of the feature file and step definition file.



```

@RunWith(Cucumber.class)
@CucumberOptions(
    features = {"src/test/resources/features/2_LoginPage.feature"},
    glue = {"stepDefinitions", "ApplicationHooks"},
    plugin = {"pretty",
        "com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:"}
)

public class MyTestRunner {
}

```

*Handwritten notes: "steps" and "path" with arrows pointing to the @CucumberOptions annotation and its arguments respectively.*

**4.Driver factory:** containing all the concrete implementations for every Browser.

```

factory
  DriverFactory
  util

public WebDriver init_driver(String browser) {


    System.out.println("browser value is: " + browser);

    if (browser.equals("chrome")) {
        WebDriverManager.chromedriver().setup();
        tlDriver.set(new ChromeDriver());
    } else if (browser.equals("firefox")) {
        WebDriverManager.firefoxdriver().setup();
        tlDriver.set(new FirefoxDriver());
    } else if (browser.equals("safari")) {
        tlDriver.set(new SafariDriver());
    } else {
        System.out.println("Please pass the correct browser value: " + browser);
    }

    getDriver().manage().deleteAllCookies();
    getDriver().manage().window().maximize();
    return getDriver();
}

```

**5.Feature file:** It is a plain English text file. It is the file where your test scenarios are written in Gherkin language. A Feature file may contain single or multiple test scenarios. The Feature file is used as a live document and ends with .feature extension. It has some keyword like as,



```
Feature: Login page functionality
  Scenario: Login with valid phone number and password
    Given user is on login page
    When Click signin button
    And Enter valid email address "brainstation23@yopmail.com"
    And Enter valid password "Pass@1234"
    And Click on signIn button
    And Click on the menue option
    And Click on the sharelead
    And click on the continue button
    And Click on the set up a sharebus
    And click on the from location "Oslo, Norway"
    And select the destination point "Kolbotn,Norway"
    And select starting datepiker
    And select starting time
    And select return date
    And select return time
    And Click on the continue
```

**6.Step Defination:** Step definition maps the Test Case Steps in the feature files(introduced by Given/When/Then/And) to code

```
package stepDefinitions;
```

```
import ...
```

no usages

```
public class LoginPageSteps {
```

16 usages

```
    private final LoginPage Login = new LoginPage(DriverFactory.getDriver());
```

1 usage

```
    @Given("user is on login page")
```

```
    public void user_is_on_login_page() {
```

```
        DriverFactory.getDriver()
```

```
            .get("https://test.sharebus.co/");
```

```
    }
```

1 usage

```
    @When("Click signin button")
```

```
    public void clickSignInButton() { Login.signinButton(); }
```

1 usage

```
    @And("Enter valid email address {string}")
```

```
    public void enterValidEmailAddress(String email) { Login.emailAddress(email); }
```

1 usage

```
    @And("Enter valid password {string}")
```

```
    public void enterValidPassword(String pass) { Login.password(pass); }
```

```
    @And("Click on signIn button")
```

```
    public void clickOnSignInButton() throws InterruptedException{
```

```
        Login.signIn();
```

```
    }
```

1 usage

```
    @And("Click on the menue option")
```

```
    public void clickOnTheMenueOption() throws InterruptedException {
```

```
        Thread.sleep( millis: 6000);
```

```
        Login.clickShareleadMenue();
```

```
    }
```

1 usage

```
    @And("Click on the sharelead")
```

```
    public void clickOnTheSharelead() { Login.clickSharelead(); }
```

1 usage

```
    @And("click on the continue button")
```

```
    public void clickOnTheContinueButton() throws InterruptedException{
```

```
        Login.clickContinue();
```

```
        Thread.sleep( millis: 4000);
```

```
    }
```

1 usage

```
    @And("Click on the set up a sharebus")
```

```
    public void clickOnTheSetUpASharebus() { Login.clickSetUpAShareBus(); }
```

## 7. Page object Model: page object model mainly performs the code duplicity

```
public class LoginPage {
    22 usages
    private final WebDriver driver;
    1 usage
    public LoginPage(WebDriver driver) {
        this.driver = driver;
        driver.manage().window().maximize();
    }
    1 usage
    public void signinButton(){
        driver.findElement(By.xpath( xpathExpression: "//button[@class='btn sb-btn-lg sb-btn-secondary rounded-pill py-1 px-3 fw-normal']")).click();
    }
    1 usage
    public void emailAddress(String email) { driver.findElement(By.xpath( xpathExpression: "//input[@id='email']")).sendKeys(email); }
    1 usage
    public void password(String pass) { driver.findElement(By.xpath( xpathExpression: "//input[@id='password']")).sendKeys(pass); }
    1 usage
    public void signIn(){
        driver.findElement(By.xpath( xpathExpression: "//button[@class='btn sb-btn-lg sb-btn-primary fw-bold rounded-pill w-100']")).click();
    }
    1 usage
    public void clickShareLeadMenu() { driver.findElement(By.xpath( xpathExpression: "//*[src='/img/joiner.svg']")).click(); }
    1 usage
    public void clickSharelead() { driver.findElement(By.xpath( xpathExpression: "//*[src='/img/sharelead.svg']")).click(); }
    1 usage
    public void clickShareLead() { driver.findElement(By.xpath( xpathExpression: "//*[src='/img/sharelead.svg']")).click(); }
    1 usage
    public void clickContinue(){
        driver.findElement(By.xpath( xpathExpression: "//*[id='app']/div[1]/div/div/div/button/span[1]")).click();
    }
    1 usage
    public void clickSetUpAShareBus(){
        driver.findElement(By.xpath( xpathExpression: "//*[class='fi fi-arrow-right-short']")).click();
    }
    1 usage
    public void osloNorway(String oslo){
        driver.findElement(By.xpath( xpathExpression: "//input[@id='startPoint']")).sendKeys(oslo);
        driver.findElement(By.xpath( xpathExpression: "//input[@id='startPoint']")).click();
    }
    1 usage
    public void destinationPoint(String destination){
        driver.findElement(By.xpath( xpathExpression: "//input[@id='destination']")).sendKeys(destination);
        driver.findElement(By.xpath( xpathExpression: "//input[@id='startPoint']")).click();
    }
    1 usage
    public void startingdate(){
        driver.findElement(By.xpath( xpathExpression: "//*[placeholder='Departure Date']")).click();
        driver.findElement(By.xpath( xpathExpression: "//table/tbody/tr[3]/td[4]")).click();
    }
    1 usage
    public void startingTime(){
        driver.findElement(By.xpath( xpathExpression: "//*[id='app']/div[1]/div[1]/div[2]/div[1]/div/form/div[1]/div[3]/div[1]/div[1]/div/div[2]/span/input")).click();
    }
    1 usage
    public void startingTime(){
        driver.findElement(By.xpath( xpathExpression: "//*[id='app']/div[1]/div[1]/div[2]/div[1]/div/form/div[1]/div[3]/div[1]/div[1]/div/div[2]/span/input")).click();
    }
    1 usage
    public void scrollToBottom() {
        JavascriptExecutor js = (JavascriptExecutor) driver;
        WebElement element = driver.findElement(By.xpath( xpathExpression: "//input[@id='destination']"));
        js.executeScript("arguments[0].scrollIntoView();", element);
    }
    1 usage
    public void clickReturndate(){
        driver.findElement(By.xpath( xpathExpression: "//*[placeholder='Return Date']")).click();
        driver.findElement(By.xpath( xpathExpression: "//table/tbody/tr[5]/td[6]")).click();
    }
    1 usage
    public void clickReturnTime(){
        driver.findElement(By.xpath( xpathExpression: "//*[id='app']/div[1]/div[1]/div[2]/div[1]/div/form/div[1]/div[3]/div[2]/div[1]/div/div[2]/span/input")).click();
    }
    1 usage
    public void clickContinue2(){
        driver.findElement(By.xpath( xpathExpression: "//button[@class='btn sb-btn-primary sb-btn-lg rounded-pill border-0 fw-bold d-flex justify-content-center align-items-center']"));
    }
}
```

**8.XPath:** XPath is an address of a web element. There are two types of Xpath.

1. Absolute XPath.
2. Relative XPath.

**Syntex of Xpath**

Xpath = //tag\_name[@attribute='value']