1- Cucumber

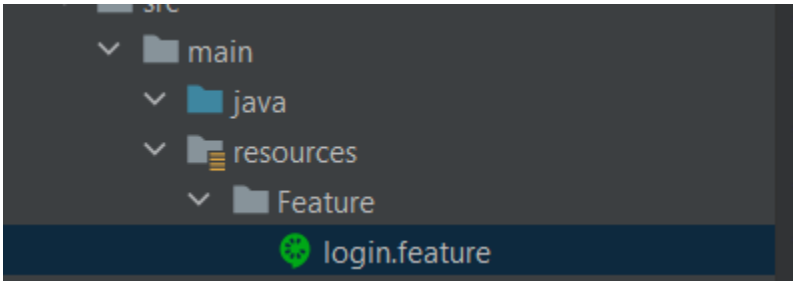
Dependencies :

```
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-testng</artifactId>
    <version>7.18.0</version>
    <scope>test</scope>
</dependency>
```

```
<dependency>
    <groupId>io.cucumber</groupId>
    <artifactId>cucumber-java</artifactId>
    <version>7.20.1</version>
</dependency>
```

1 – feature file :

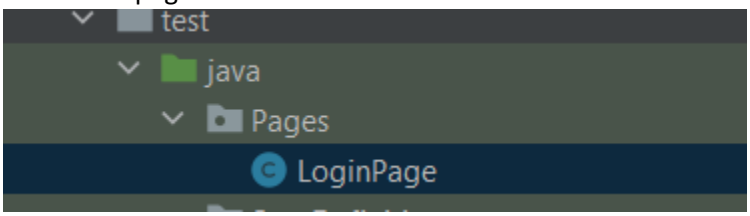
Mahe the dir of feature file :



Then define the feature file :

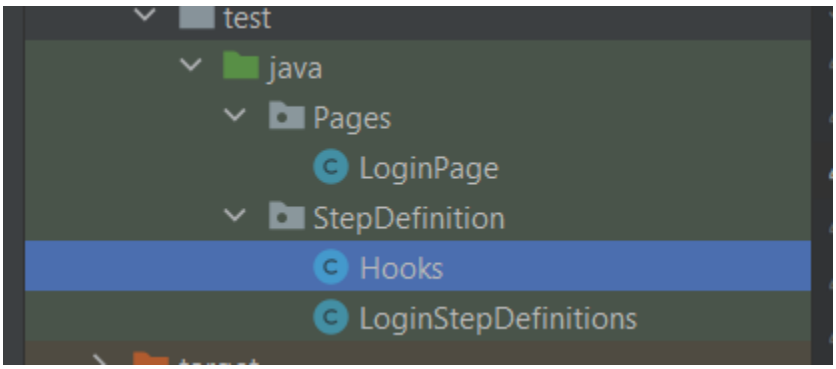
```
Feature: user can login to the system
  Scenario: user login with valid credentials
    Given user enter valid user name and password
    When user click to login button
    Then a success message will be appeared
```

2- Define the page :



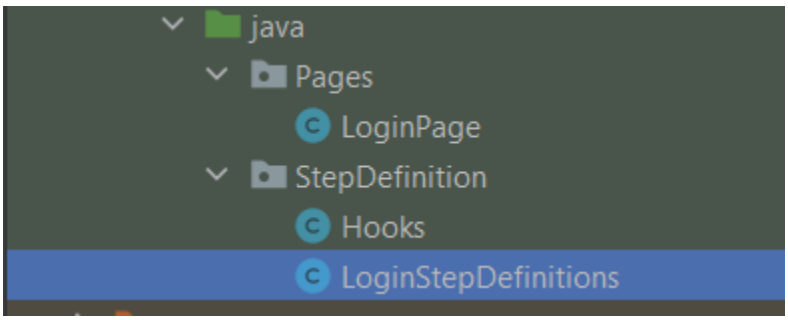
```java
public class LoginPage {
    private static WebDriver driver;

    public LoginPage (WebDriver driver){
        this.driver = driver;
    }

    By usernameField = By.id("username");
    By passwordField = By.id("password");
    By submitBtn = By.id("submit");

    By successMSG = By.xpath("//h1[text()='Logged In Successfully']");


    public void setUserName(String username){
        driver.findElement(usernameField).sendKeys(username);
    }

    public void setPassword (String password) {
        driver.findElement(passwordField).sendKeys(password);
    }

    public void clickSubmit () {
        driver.findElement(submitBtn).click();
    }

    public String getMSG() {
        return driver.findElement(successMSG).getText();
    }

    public String getURL(){
        return driver.getCurrentUrl();
    }



}
```

3- Then define the hooks



```java
public class Hooks {
    public static WebDriver driver;



    @Before
    public void setUp() {
        System.setProperty("webdriver.http.factory", "jdk-http-client");
        WebDriverManager.chromedriver().setup();
        driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        driver.get("https://practicetestautomation.com/practice-test-
login/");
        System.out.println("d"+driver);
    }

    @After
    public void teardown()
    {
        driver.quit();
    }


}
```

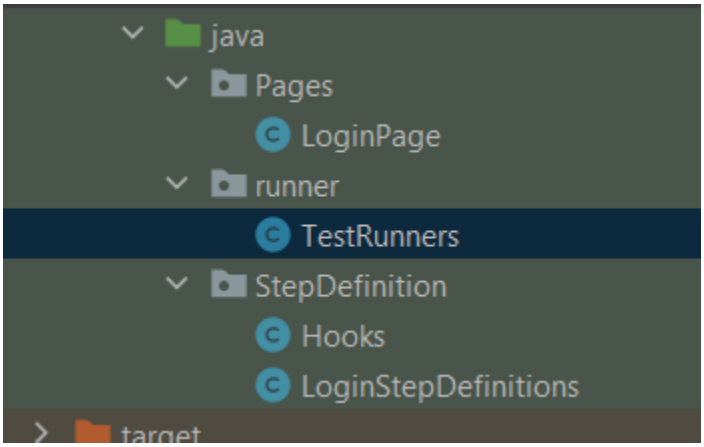
4- Define the step definition :




```java
public class LoginStepDefinitions extends Hooks{
    Pages.LoginPage login ;



    @Before
    public void initLoginPage() {

        login = new LoginPage(driver); // Initialize after driver setup
```

```
    }


    @Given("user enter valid user name and password")
    public void enterUserAndPassword(){
        //new Pages.LoginPage(Hooks.driver);
        //System.out.println("j"+Hooks.driver);
        login.setUserName("student");
        login.setPassword("Password123");
    }
    @When("user click to login button")
    public void clickOnLoginBtn(){
        login.clickSubmit();
    }
    @Then("a success message will be appeared")
    public void successMsg(){
        Assert.assertEquals(login.getMSG(),"Logged In Successfully");
    }
}
```

5- Define the runner :




```
public class TestRunners {

    @CucumberOptions(
            features = "src\\main\\resources\\Feature",
            glue = {"StepDefinition"},
            plugin = {"pretty", "html:target/cucumber"},
            tags = "@E2E"

    )


    public static class testRunners extends AbstractTestNGCucumberTests {
    }

}
```