**Facebook registration and login scenarios explanation**

* I used selenium framework with java and Maven.
* I used the POM design pattern (Page Object Model).
* In **src/main/java** folder there is the **Pages package**.
* In the **Pages package** there is the **PageBase** class that initializes the web driver so I can inherit from it in the other page classes.
* In the **Pages package** there is the **HomePage** class where I implement finding web elements and apply the function on them.
* In the **Pages package** there is the **RegistrationPage** class where I implement finding web elements of the registration form and apply the functions on them.
* In **src/test/java** folder there is the **Tests package** that includes the test classes.
* In the **Tests package** there is the **TestBase** class where I sets the URL and the code that will open the browser using **WebDriverManger** dependency that automatically open the browser and the function that checks the test case result to take a screenshot on failure .
* In the **Tests package** there is the **LoginTest** class where I read the login credentials that I created from **Facebook Developer account** from **UserData** excel file in the **TestFiles** folder as Data Driven then apply the happy scenario.
* In the **Tests package** there is the **RegistrationTest** class where I fill the registration form using **Faker** dependency that creates fake data for fields like (first name, last name, email, password) as Data Driven .
* In **src/test/java** folder there is the **Helper package** that includes the **Help class** where I create a function to take screenshot if the test case fails and save the image in the **Screenshots folder**.
* In **src/test/java** folder there is the **TestData package** that includes the **DataReaderFromExcel** class that I create a function to read data from Excel file as Data Driven.