This project is a test automation about the web page AutomationPractice (<http://automationpractice.com/index.php>). I am using Selenium Webdriver, which drivers a browser natively, as a user would do. The programming language used is Java. I have also used the framework “TestNG”.

I have implemented the Page Object Model which is a design pattern where web pages are represented with a class and in these classes we can find the elements of the web page and the “action methods”. On the other hand there are the test classes which contain the test cases. This pattern has the benefits of avoiding duplicate code, getting robust and easy to understand tests and also improving the maintainability of the tests.

So the project has a main folder “src/test/java” with 3 folders inside. “pages” has the classes which represent the web pages, “tests” has the classes which contains the tests and “utilities” has classes which are needed for the methods from the other classes from “pages” and “tests”.

The browsers I have used for the tests are Chrome and Firefox. I have implemented the “Cross Browser Testing” concept. It consist on evaluating a functionality under different browsers. In order to use it I have added the “parameter” tag and in the test class I have used the “Parameters” annotation.

Some utilities included are:

* Reading data to test from Excel and using data provider. In order to do it, I have used the @DataProvider annotation which calls a method from the class “ExcelToDataProvider” which gets the two-dimensional array from the Excel file and sheet passed as parameters.
* Take screenshots and create a Word document. At the beginning of the test run, a document with the “docx” extension is created. Using the @AfterMethod annotation a screenshot is taken and added to the document, including a title. This file is saved in the folder located at “..\\AutomationPractice\\Evidencias\\”
* Create recordings and save them. At the beginning of each test method, a recording starts and it’s stopped at the end of the method. The recordings are saved in “./recordings/”. A folder inside it is created with the test class name (for example “SignIn”) and the date and inside it are saved all the corresponding records.
* Delete files (screenshots documents and videos). The class “DeleteFiles” contains a main method that is run every time Windows initializes. This method checks if the files have been modified in the last 3 days. If they haven’t, it deletes them but always leaving the last one.

In order to be run every time Windows initializes, an executable file must be generated and added to “C:\Users\myUser\AppData\Roaming\Microsoft\Windows\Start Menu\Programs\Startup”

Functionalities tested:

* Sign In
  + Valid sign in
  + Invalid email
  + Invalid password
  + Not writing email
  + Not writing password
  + Authentication failed
* Create Account
  + Valid
  + Invalid Email
  + Exists Account with Mail
  + Invalid Account
* Search