

Overview:

The test script for the automation assignment was written in Java language using the following technologies:

- **Maven** for building up the project and downloading dependencies
- **Selenium** for automating the web interface
- **TestNG** for test reporting and test assertion

Project Architecture:

- The project consists of two main packages, page package and test package.
- Under page package you can find the locators and methods used for each page separately, applying **POM page object model design pattern**.
- Under Test you can find the tests for registration and login each in separate classes
- The framework is data driven as login credentials are provided to the script through external JSON file.
- The framework can handle reading data from excel sheets as well as I implemented excel reader class inside the framework however, I called the JSON reader class upon executing
- Regarding providing data from external source, I only made this approach in the login test cases, from my point of view there is no need to read from external source in testing registration as testing the registration is concerned with asserting the validity of the parameters provided which does not need to be provided with different values from external source.
- I used a random character generator function only to generate random email in registration as it may validate the email being already registered.