# -------Task1-- Web Automation Project using -------Selenium-Java-----------

* This project is created to automate GitHub signup form with various tests passing through Excel sheet.
* The project has been developed in Maven style where we no need to add explicitly the required jars into the folder of our own machine which causes confusion to team level. To avoid that I used POM xml which accepts all the dependencies in one place and can be updated versions with a single edit.
* Here I used the framework 'Page Object Model' POM which can create object for each page and can call the properties based on page level.
* This will be reduced the maintenance cost to the team if any change required can change in one place globally will be effected all the tests where it calls.
* In this POM framework things are taken care are listed below:
* Reading Excel
* Reading Properties
* Printing logs using Log4J
* **TestNG** library for mainintaing tests using annotations. Tests can be run through tags, Parallel execution, and XML read support to call the script, Also **TestNG** **listeners** which listen the each test throughout execution and taking screenshot for each failure and append the HTML report.
* For HTML report used **ExtentReports** library which brings the pictorial representation of graph to show No of tests executed, time, and pass-fail status along with System info.

**To Execute the Script:**

Pre-requisites:

* Use Maven latest (3)or above
* Java 7 or above
* Currently code tested in chrome version 70 (Task1)

Open command prompt:

* Type “mvn clean test”
* To alter/run test individually open ‘testng.xml’ comment the test tag you can run only particular one, else it will execute both in a single shot. And the report can see under Reports also URL can find in the log file
* Logs can see on command line & also Logs file(Under Log4J folder)
* Web Report(HTML) can be seen in Under (‘Reports’ Folder)