**Concepts Included**

* Page Object pattern
* TestNG -Maven
* Data-driven
* I/O Framework

**Tools**

* Selenium Webdriver
* PageObject Model pattern
* Data driven framework
* Maven
* TestNG
* Extent Report

**Requirements**

In order to utilise this project you need to have the following installed locally:

* Maven 3
* Chrome and Chromedriver (UI tests use Chrome by default, can be changed in config)
* Selenium-java(3.14)
* testNG(6.11)
* poi(3.9)
* poi-ooxml(3.9)
* poi-ooxml-schemas(3.9)
* poi-scratchpad(1.1)
* openxml4j(1.0-beta)
* extentReports(2.41.0)
* log4j(2.17)
* commons-io(2.6)

**Usage**

The project is broken into separate modules for API, UI, Performance and Security testing. Each of these modules can be utilised independently of the others using maven profiles.

To run all modules, navigate to test-automation-quickstart directory and run:

mvn clean install

To run UI acceptance tests only, navigate to test-automation-quickstart directory and run:

mvn clean install -Pui-acceptance-tests

To run API acceptance tests only, navigate to test-automation-quickstart directory and run:

mvn clean install -Papi-acceptance-tests

To run performance tests only, navigate to test-automation-quickstart directory and run:

mvn clean install -Pperformance-tests

To run security tests only, navigate to test-automation-quickstart directory and run:

mvn clean install -Psecurity-acceptance-tests

**Reporting**

Reports for each module are written into their respective /target directories after a successful run.

UI acceptance tests result in a HTML report for each feature in test-automation-quickstart/ui-acceptance-tests/target/cucumber-parallel/. In the case of test failures, a screen-shot of the UI at the point of failure is embedded into the report.

API acceptance tests result in a HTML report for each feature in test-automation-quickstart/api-acceptance-tests/target/cucumber-parallel/.

Performance tests result in a .jtl results file and .png graphs showing response times and transactions per second, generated in test-automation-quickstart/performance-tests/target/jmeter/results.

Security acceptance tests result in a HTML report for each feature in test-automation-quickstart/security-acceptance-tests/target/cucumber-parallel/. They will also generate a security risks HTML report in test-automation-quickstart/security-acceptance-tests/security-reports/security-report.html.

*NOTE*: As mentioned, cucumber reports are written to a separate file for each feature. This occurs as a result of running tests in parallel, meaning that you do not get a single unified test report. If using CI, these individual reports can be joined using plugins such as the Jenkins Cucumber-JVM-Reports plugin.

For an alternative approach to combining the cucumber reports, see the [parallel testing blog post on OpenCredo.com](http://www.opencredo.com/2013/07/02/running-cucumber-jvm-tests-in-parallel).