**StackFinance**

StackFinance: Automation Testing Using Selenium (Java)

StackFinance Cucumber Framework is a behavior driven development (BDD) approach to write automation test script to test Web and Mobile Web. It enables you to write and execute automated acceptance/unit tests. It is cross-platform, open source and free. Automate your test cases with minimal coding. [More Details](http://seleniumcucumber.info/)

**Pre-requisites**

* [Java](https://java.com/en/download/manual.jsp)
* [Intellij Community version](https://www.jetbrains.com/idea/download/#section=windows)
* Intellij Plugins Installation
  + In the Settings dialog Ctrl+Alt+S , select Plugins.
  + In the Plugins dialog, switch to the Marketplace tab.
  + In the dialog that opens, search for
    - Cucumber for java
    - [Cucumber](http://cucumber.github.io/cucumber-eclipse/update-site/) for groovy
    - Gherkin
  + Click Install.
  + Click OK in the Settings dialog to apply the changes, and restart IntelliJ IDEA if prompted.

**Setting up StackFinance**

* Install Java and set path.
* Open pom.xml file in Intellij and select Open as Folder if prompted
* In left hand side under Project view, right click on pom.xml and Add as maven project(not required, if project is auto imported as Maven project)

**Framework Architecture**

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|\_src/main/java

| |\_StepDefinitions

| | |\_Steps.java

| | |\_TestRunner.java

| | |\_WebConnector.java

|\_src/main/resources

|\_src/test/java

| |\_cucumber

| | |\_Admin.feature

|\_config

| |\_extent-config.xml

* **src/test/resources/cucumber** - all the cucumber features files (files .feature ext) goes here.
* **src/test/java/Steps** - you can define step definition under this package for your feature steps.
* **config** - this package contain extent-config.xml file. extent-config.xml is configuration format for report generated at the end of test execution.

**Writing a test**

The cucumber features goes in the cucumber library and should have the ".feature" extension.

You can start out by looking at cucumber/Admin.feature. You can extend this feature or make your own features as per your requirement.

**Running test**

* In project, navigate to src\main\java\StepDefintions\TestRunner.java file
* Right click anywhere inside the java file and click Run TestRunner

**Reports**

Extent Report feature has been used for generating HTML reports at the end of test execution. This report contains complete execution summary along with a log, total execution time and screenshot for each step. Report generated goes in: target\cucumber-reports\reports.html.

FYI, Execution time and Execution Status for each scenario can be tracked from Intellij Output terminal as well.