Project Summary:

Tools & Framework used: Intellij IDE, Cucumber Framework, RestAssured, Maven
Programming Language: Java 8+

Development environment : All development and execution done on Mac OS.It should work on other OS(e.g windows) as well.
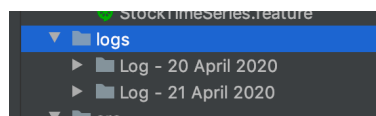
Framework Understanding:
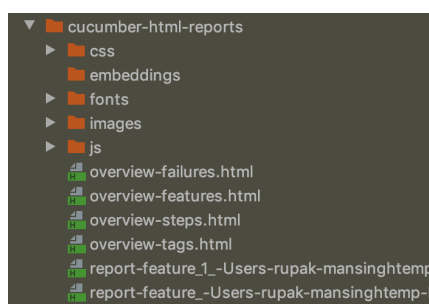This framework uses Selenium Cucumber-Junit-Maven with rest assured client model architecture.

- ConfigFileReader.java class initialize the **Configuration.properties** file.

- FileReaderLibrary.java class is singleton class initialize ConfigFileReader.java class

- Test cases are inside cucumber feature file. I have created two separate feature files considering the given scenarios. TestRunner files generate at the run time. Location to find both feature files after execution is **\target\generated-test-sources\cucumber**.

- For parallel execution I have used **cucumber-jvm-parallel-plugin**

```
<plugins>
    <plugin>
        <groupId>com.github.temyers</groupId>
        <artifactId>cucumber-jvm-parallel-plugin</artifactId>
        <version>5.0.0</version>
        <executions>
            <execution>
```

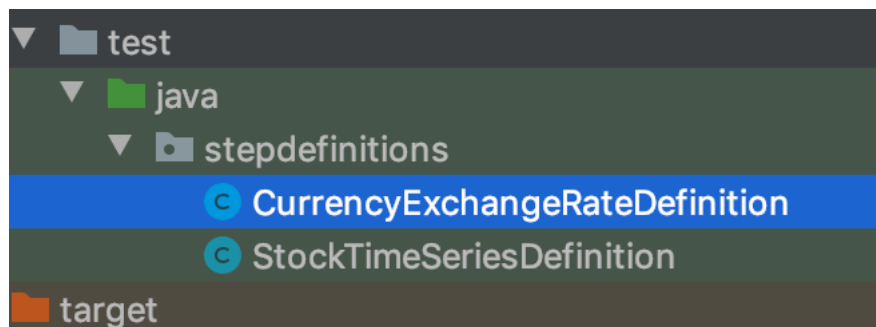- For logging, I have used Log4j library. Log file are generated inside "logs" folder

```
StockTimeSeries.feature
▼ 📁 logs
   ▶ 📁 Log - 20 April 2020
   ▶ 📁 Log - 21 April 2020
▼ 📁 src
```

- For reporting I have used masterthought report, which can be obtained after execution in "**target\cucumber-html-reports\overview-features.html**".

- "**overview-features.html**" is the html report of the features.

```
▼ 📁 cucumber-html-reports
   ▶ 📁 css
     📁 embeddings
   ▶ 📁 fonts
   ▶ 📁 images
   ▶ 📁 js
     📄 overview-failures.html
     📄 overview-features.html
     📄 overview-steps.html
     📄 overview-tags.html
     📄 report-feature_1_-Users-rupak-mansinghtemp
     📄 report-feature_-Users-rupak-mansinghtemp-
```

Step Definition Files (Glue Code):

- Feature files glue code are inside "**stepdefinitions**" package
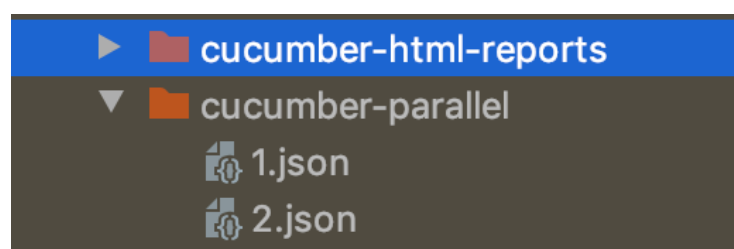

How to Execute Test:

Option#1:

- Clone the project or download to local machine from :`https://github.com/rupak101/lendico-task`
- Open command prompt or terminal
- Go to project workspace

- Type "**mvn clean install**"

- After execution, use get success message

Option#2:

- Clone the project : https://github.com/rupak101/lendico-task
- Go to individual Feature file
- Right click on the file: click on Run as >> Cucumber feature file
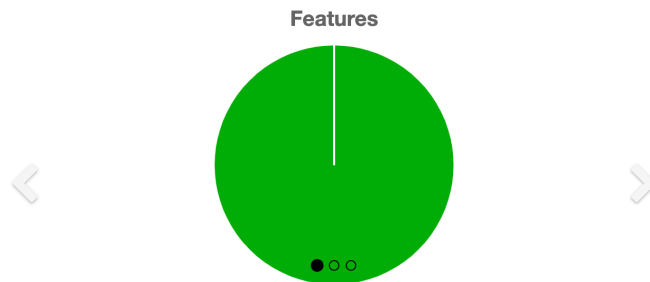
Report:

- Framework should generate clear and concise report after automation script execution.
- I have used "**masterthought**" to generate html report
- After execution, two json report generate for each feature file.

- "**masterthought**" merge this two json report and generate nice html report. Java code for merging this two json files is inside "AutomtationReportGeneration.java"

- Complete report looks like below. User can view report specific to

Features Statistics

The following graphs show passing and failing statistics for features

Features

Feature	Steps						Scenarios			Features	
	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status
Api tests for currency exchange rate (GET /query)	24	0	0	0	0	24	6	0	6	1:10.608	Passed
Api tests for real time stock details (GET /query)	20	0	0	0	0	20	5	0	5	28.987	Passed
	44	0	0	0	0	44	11	0	11	1:39.596	2
	100.00%	0.00%	0.00%	0.00%	0.00%		100.00%	0.00%			100.00%

Features, Tags, Steps and Failures. User can find the report "**target\cucumber-html-reports\overview-features.html**".

- Report specific to feature file

Automation Test	21 Apr 2020, 15:18

Feature Report

Feature	Steps						Scenarios			Features	
	Passed	Failed	Skipped	Pending	Undefined	Total	Passed	Failed	Total	Duration	Status
Api tests for real time stock details (GET /query)	20	0	0	0	0	20	5	0	5	28.987	Passed

Feature Api tests for real time stock details (GET /query)

Tags: @RegressionTest

Scenario Outline Get stock details for every 5 minutes interval ⌄ | 4.350

Steps ⌄

Given set base url and add query param "**TIME_SERIES_INTRADAY**","**IBM**","**5min**"	0.004
When user retrieves the stock details	4.337
Then the status code is **200**	0.008
And validate response and "**IBM**", "**5min**" for every five minutes stock details	0.000

Tags: @RegressionTest

Scenario Outline Get stock details for daily and weekly ⌄ | 5.240

Steps ⌄

Given set base url and add query param "**TIME_SERIES_DAILY**","**IBM**"	0.009
When user retrieves the stock details	5.225
Then the status code is **200**	0.004
And validate response and "**IBM**" for daily and weekly stock details	0.000