

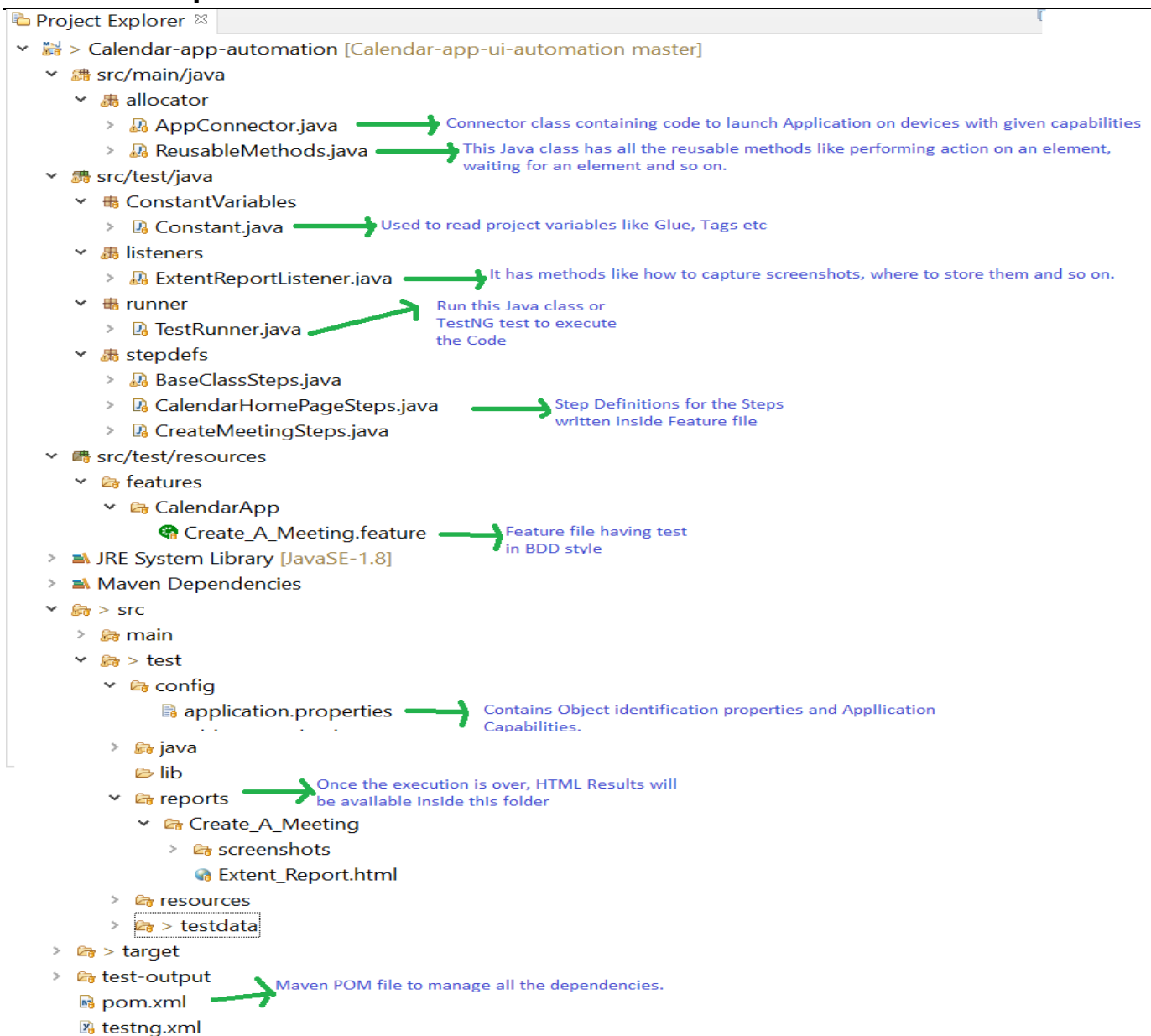
## Background

I wrote UI automation tests for creating and verifying a meeting in Calendar application.

## Tools/ Library Used

- Appium Java Client library
- Appium Server
- Extent report plugin
- My Samsung- Android phone

## Solution Components




## How to Execute?

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*Please follow below steps:*

1. Ensure that Java and Maven is available on the machine.
2. Extract all the files from ZIP.
3. Launch Command Prompt.
4. Navigate to the project directory in CMD.

 C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [Version 10.0.17763.1397]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\sonra3>cd C:\Automation\Calendar-app-automation
C:\Automation\Calendar-app-automation>_
```

5. Once done, run the below Maven command to trigger execution:
  - ***mvn clean test***

```

C:\Automation\Calendar-app-automation>mvn clean test
[INFO] Scanning for projects...
[INFO]
[INFO] -----< com.samsung.android:calendar >-----
[INFO] Building calendar-app 1.0
[INFO] -----[ jar ]-----
[INFO]
-----
T E S T S
-----
Running runner.TestRunner
Configuring TestNG with: org.apache.maven.surefire.testng.conf.TestNG652Configurator@5577140b
Thread Id | Scenario Num | Step Count
Extent Report location initialized . . .
System Info. set in Extent Report
Sep 06, 2020 8:02:18 AM io.appium.java_client.remote.AppiumCommandExecutor$1 lambda$0
INFO: Detected dialect: W3C
###.....CONNECTION SUCCESSFULLY ESTABLISHED WITH NODE DEVICE.....###
It is a working day
isWorkingDate? = true
DURATION - 24657
Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 25.591 sec

Results :

Tests run: 1, Failures: 0, Errors: 0, Skipped: 0

[INFO] -----
[INFO] BUILD SUCCESS
[INFO] -----
[INFO] Total time: 01:14 min
[INFO] Finished at: 2020-09-06T08:02:24+10:00
[INFO] -----

C:\Automation\Calendar-app-automation>

```

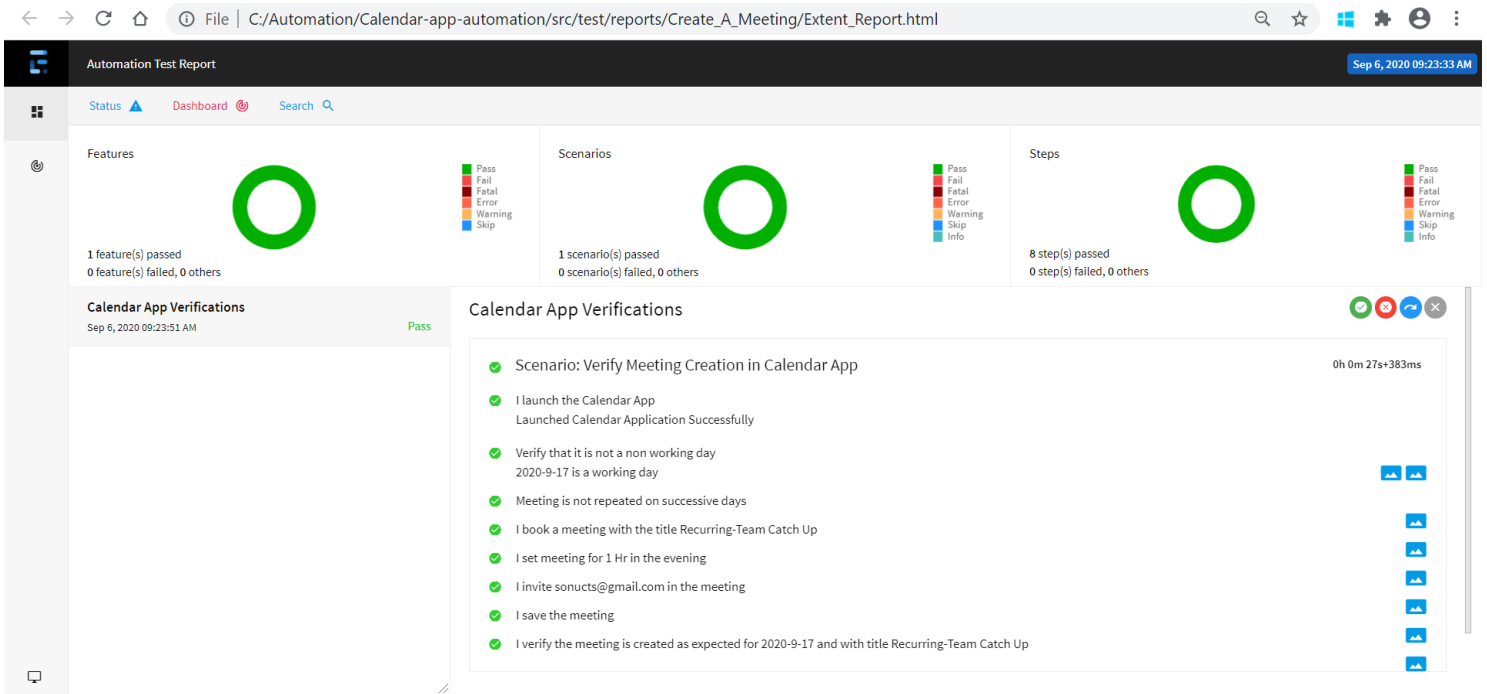
7. Once the execution is over, open the Extent\_Report.html file from below path:

***.\Calendar-app-automation\src\test\reports\Create\_A\_Meeting\Extent\_Report.html***

## Execution Results

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Once execution is completed successfully, HTML report will be generated, and will look like below:



## Suggested Enhancements

Some of the ideas which is coming in my mind,

1. Currently the solution is Single Threaded, in future we can enhance this to multithreading.
2. Integration with CI/ CD tool.
3. Integration with Jira, so that Jira ticket will be updated by automation test itself.
4. Containers Implementations.
5. Can be integrated with tools like JACOBO or Sonarqube for Code Analysis.
6. We can write Groovy to capture execution logs from Jenkins console and have a summarized HTML page.
7. We can also work little more on Reporting to remove some of the print statements.