Guideline To Use A Mini Project With CUCUMBER - JAVA - APPIUM

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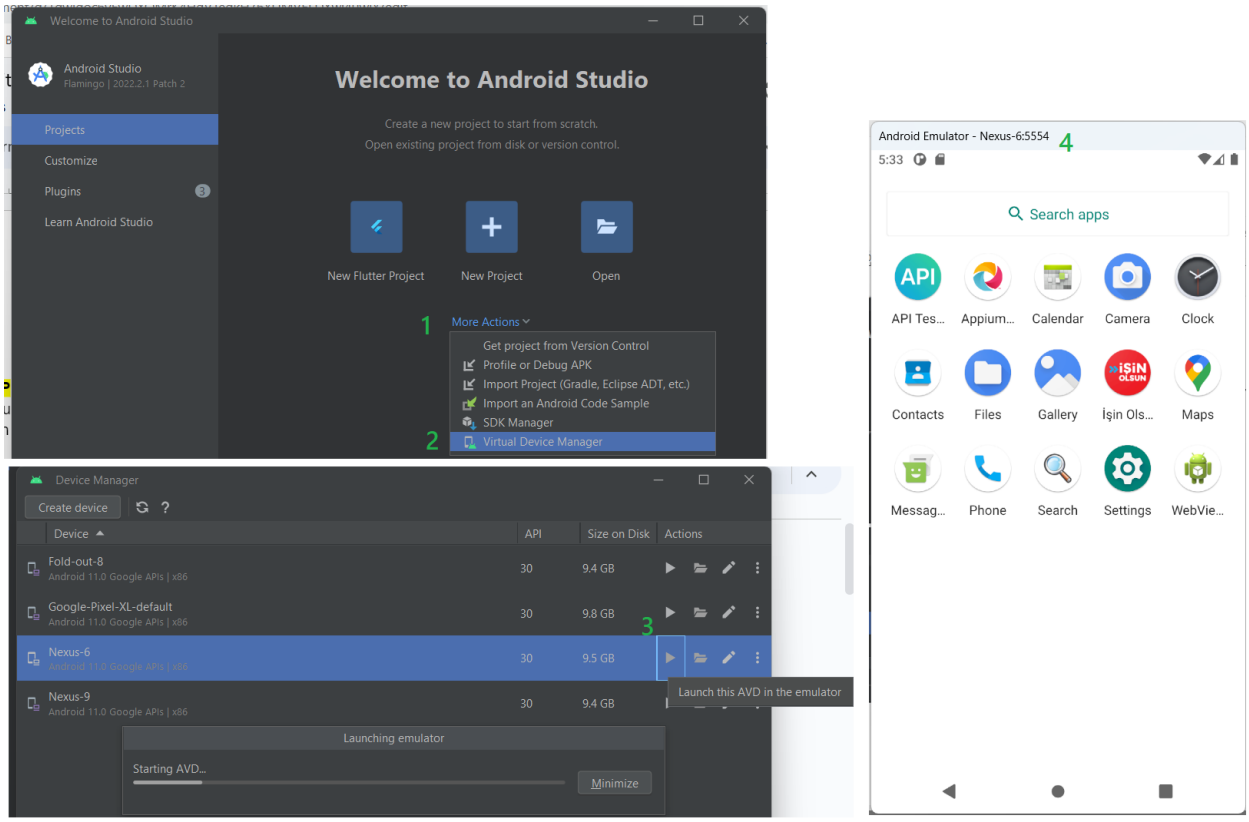
I. SETUP

- GitHub: https://github.com/nguyenthuongquan/cucumber-java-appium-apitester.git
- IntelliJ Community
- Androi Studio
- Appium Server GUI
- Appium Inspector

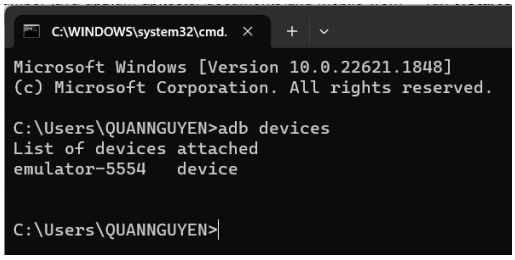
II. INSTALL APP ON DEVICE

1. Launch a device e.g 'Nexus 6 API 30'. Drag file '**APITester_7.2.apk'** and drop into device to install.



2. Launch app on the device → Ok, it should be running now

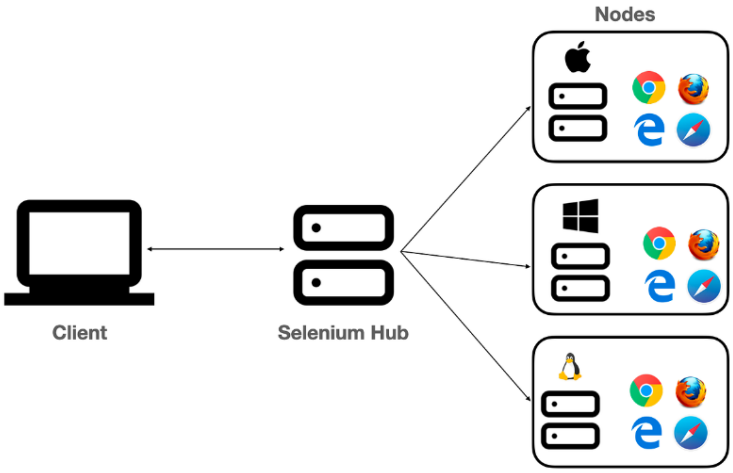
3. Cmd → adb devices → E.g it is saying: emulator-5554 → so the device is running on port 5554



III. RUN FIRST TEST CASE

1. Navigate to folder \cucumber-java-appium-apitester\documents\grid-mobile-work → copy folder 'grid-mobile-work' to C:\Selenium

2. SeleniumGrid explanation



3. Setup SeleniumGrid {Hub + Node}

0.StartGridHubAndIts1Node-port5

File Edit View

0.StartGridHubAndIts1Node-port5554

```
start startHub.bat
start startAppium5554.bat
```

startHub

File Edit View

```
java -jar selenium-server-standalone-3.141.59.jar -role hub
```

startAppium5554

File Edit View

```
appium -p 5554 --nodeconfig C:\Selenium\grid-mobile-work\device-5554-nexus-6-black.json
```

device-5554-nexus-6-black

File Edit View

```
{
  "capabilities":
  [
    {
      "deviceName": "Nexus 6 Black API 30",
      "platformName": "Android",
      "browserName":"Nexus 6 Black API 30",
      "platformVersion": "11",
      "maxInstances": 1
    }
  ],
  "configuration":
  {
    "cleanUpCycle":2000,
    "timeout":30000,
    "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy",
    "url":"http://0.0.0.0:5554/wd/hub",
    "host": "0.0.0.0",
    "port": 5554,
    "maxSession": 1,
    "register": true,
    "registerCycle": 5000,
    "hubPort": "4444",
    "hubHost": "192.168.2.48"
  }
}
```

4. At C:\Selenium\grid-mobile-work → Run **0.StartGridHubAndIts1Node-port5554** → It will launch selenium Grid and start appium at port 5554

```
C:\WINDOWS\system32\cmd.

D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\documents\grid-mobile-work>java -jar seleniu
m-server-standalone-3.141.59.jar -role hub
05:44:08.167 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
05:44:08.233 INFO [GridLauncherV3.lambda$buildLauncherS$5] - Launching Selenium Grid hub on port 4444
2023-08-22 05:44:08.616:INFO::main: Logging initialized @651ms to org.seleniumhq.jetty9.util.log.StdErrLog
05:44:08.798 INFO [Hub.start] - Selenium Grid hub is up and running
05:44:08.800 INFO [Hub.start] - Nodes should register to http://192.168.137.1:4444/grid/register/
05:44:08.800 INFO [Hub.start] - Clients should connect to http://192.168.137.1:4444/wd/hub
05:48:15.285 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5554
```

```
npm

C:\Selenium\grid-mobile-work>appium -p 5554 --nodeconfig C:\Selenium\grid-mobile-work\device-5554-nexus-6-black.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5554
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5554
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]        http://192.168.137.1:5554/
[Appium]        http://192.168.2.48:5554/
[Appium]        http://127.0.0.1:5554/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
       --> GET /wd/hub/status
       {}
[debug]        No route found for /wd/hub/status
       <-- GET /wd/hub/status 404 10 ms - 211
```

5. If the hub port 4444 is busy → terminate it and try again:

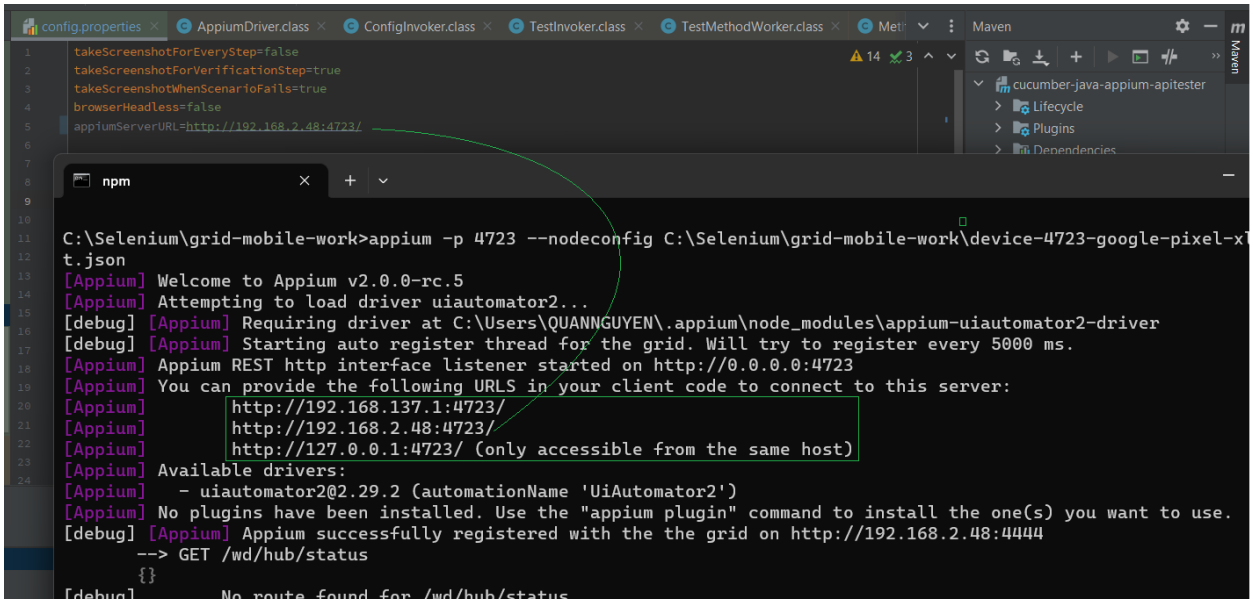
   → netstat -aon | findstr 4444

   → taskkill /PID 16053 /F

```
C:\WINDOWS\system32\cmd.

C:\Selenium\grid-mobile-work>java -jar selenium-server-standalone-3.141.59.jar -role hub
07:26:06.196 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
07:26:06.267 INFO [GridLauncherV3.lambda$buildLauncherS$5] - Launching Selenium Grid hub on port 4444
2023-08-22 07:26:06.665:INFO::main: Logging initialized @665ms to org.seleniumhq.jetty9.util.log.StdErrLog
07:26:06.790 INFO [DefaultGridRegistry.assignRequestToProxy] - Shutting down registry.
07:26:06.796 ERROR [Hub.start] - Port 4444 is busy, please choose a free port for the hub and specify it using -port opt
ion

C:\Selenium\grid-mobile-work>
```

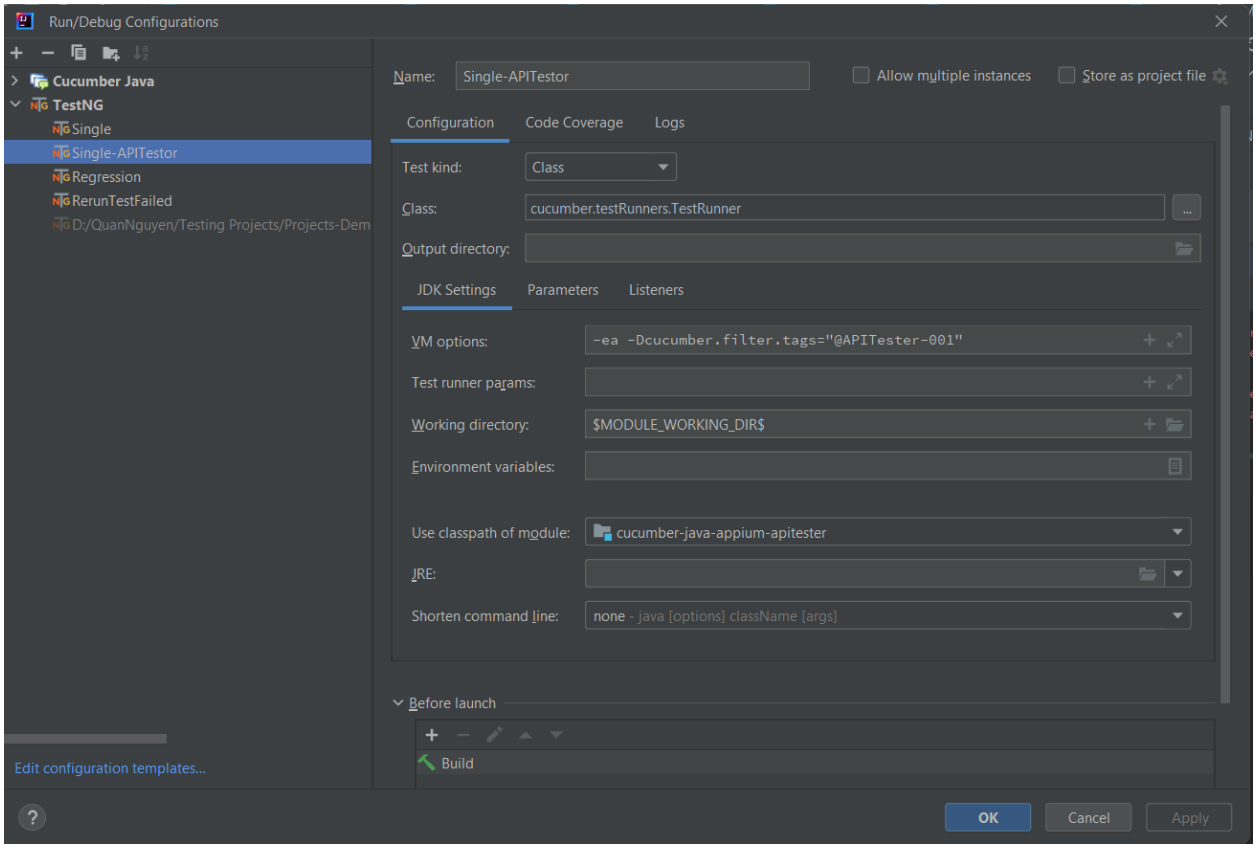
```
C:\WINDOWS\system32\cmd.

Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\QUANNGUYEN>netstat -aon | findstr 4444
  TCP    0.0.0.0:4444           0.0.0.0:0              LISTENING       16052
  TCP    192.168.2.48:4444      192.168.2.48:51539     TIME_WAIT       0
  TCP    192.168.2.48:4444      192.168.2.48:51545     TIME_WAIT       0
  TCP    192.168.2.48:4444      192.168.2.48:62524     TIME_WAIT       0
  TCP    192.168.2.48:4444      192.168.2.48:62526     TIME_WAIT       0
  TCP    [::]:4444              [::]:0                 LISTENING       16052

C:\Users\QUANNGUYEN>taskkill /PID 16052 /F
SUCCESS: The process with PID 16052 has been terminated.
```

6. **[Note-Troubleshoot issue 1]** If having AppiumServerURL issue when running on local, change the AppiumServerURL in file config.properties as below:



7. **[Note-Troubleshoot issue 2]** If having issue "socket hangup" → Uninstall the APITester app, + uninstall the Appium app → shutdown device → (Android Studio) Cold boot now → Rerun test again → The apps will be automatically installed again and should work

8. Try running a single test with tag @APTTest-001, it should be working



9. This is Cucumber report

```
Tests passed: 1 of 1 test – 15 sec 418 ms
Given verify user should see info in APITester Landing screen        # cucumber.steps
 .APITesterLandingScreenSteps.userShouldSeeInfoInAPITesterLandingScreen()

  Embedding 230822-060048-918 [image/png 110441 bytes]

View your Cucumber Report at:
https://reports.cucumber.io/reports/7aa45905-8900-44e8-b69b-fae7e1024893

This report will self-destruct in 24h.
Keep reports forever: https://reports.cucumber.io/profile

===============================================
Default Suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
===============================================


Process finished with exit code 0
```

https://reports.cucumber.io/reports/7aa45905-8900-44e8-b69b-fae7e1024893

Cucumber Reports

This report will self-destruct in a day. Keep your future reports forever.

1 PASSED

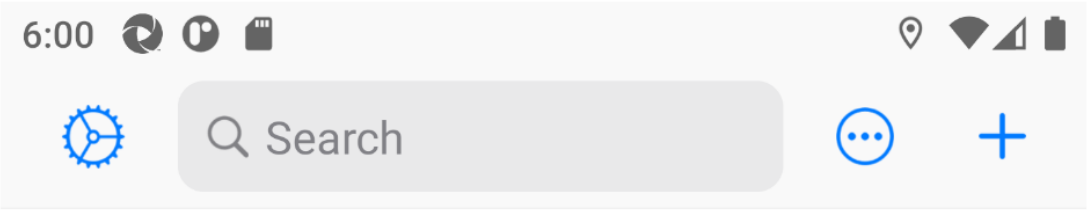
100% passed	a few seconds ago	8.54 seconds
1 executed, 17 ignored	Last Run	Duration
Windows 10	Java HotSpot(TM) 64-Bit Server VM 14.0.2+12-46	cucumber-jvm 6.10.3

Delete Report

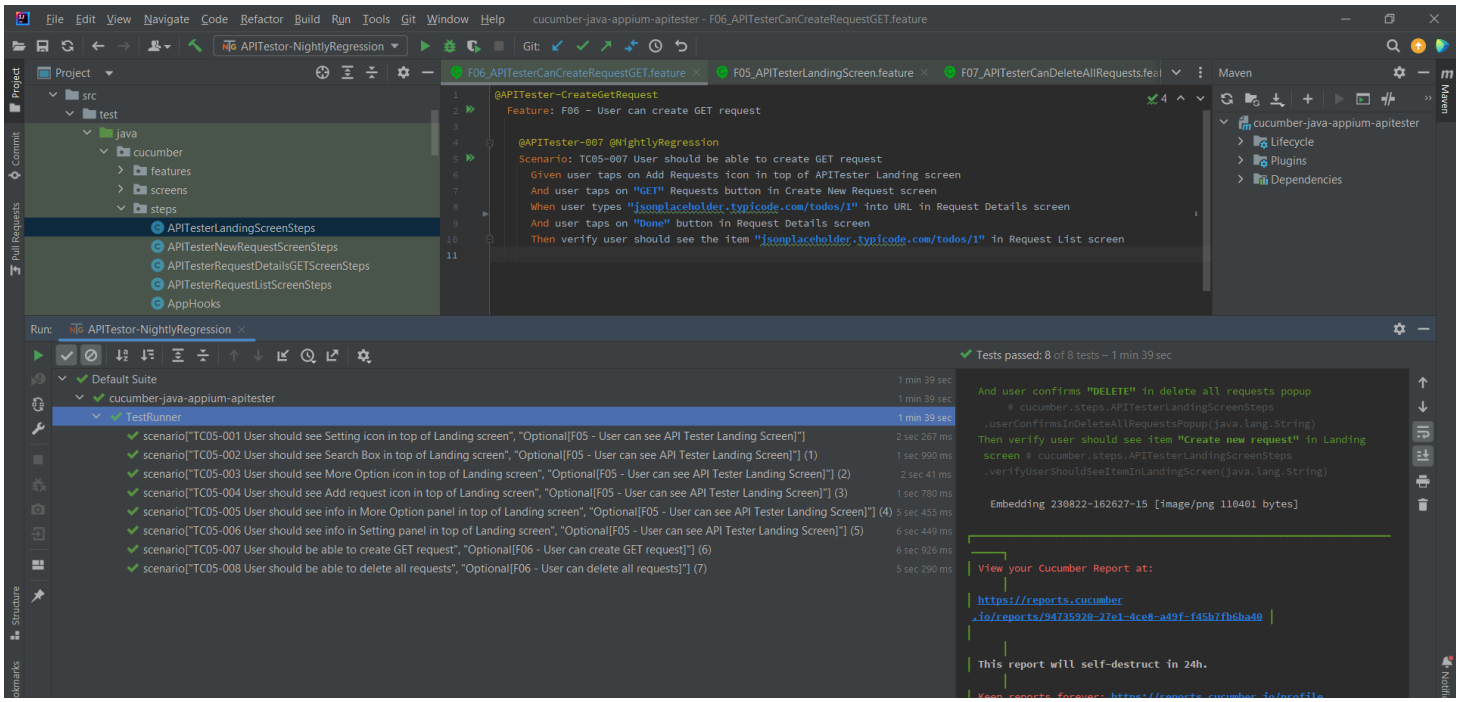
file:///D:/QuanNguyen/Testing%20Projects/Projects-Demo/cucumber-java-appium-apitester/src/test/java/cucumber/features/F01_APITesterLandingScreen.feature

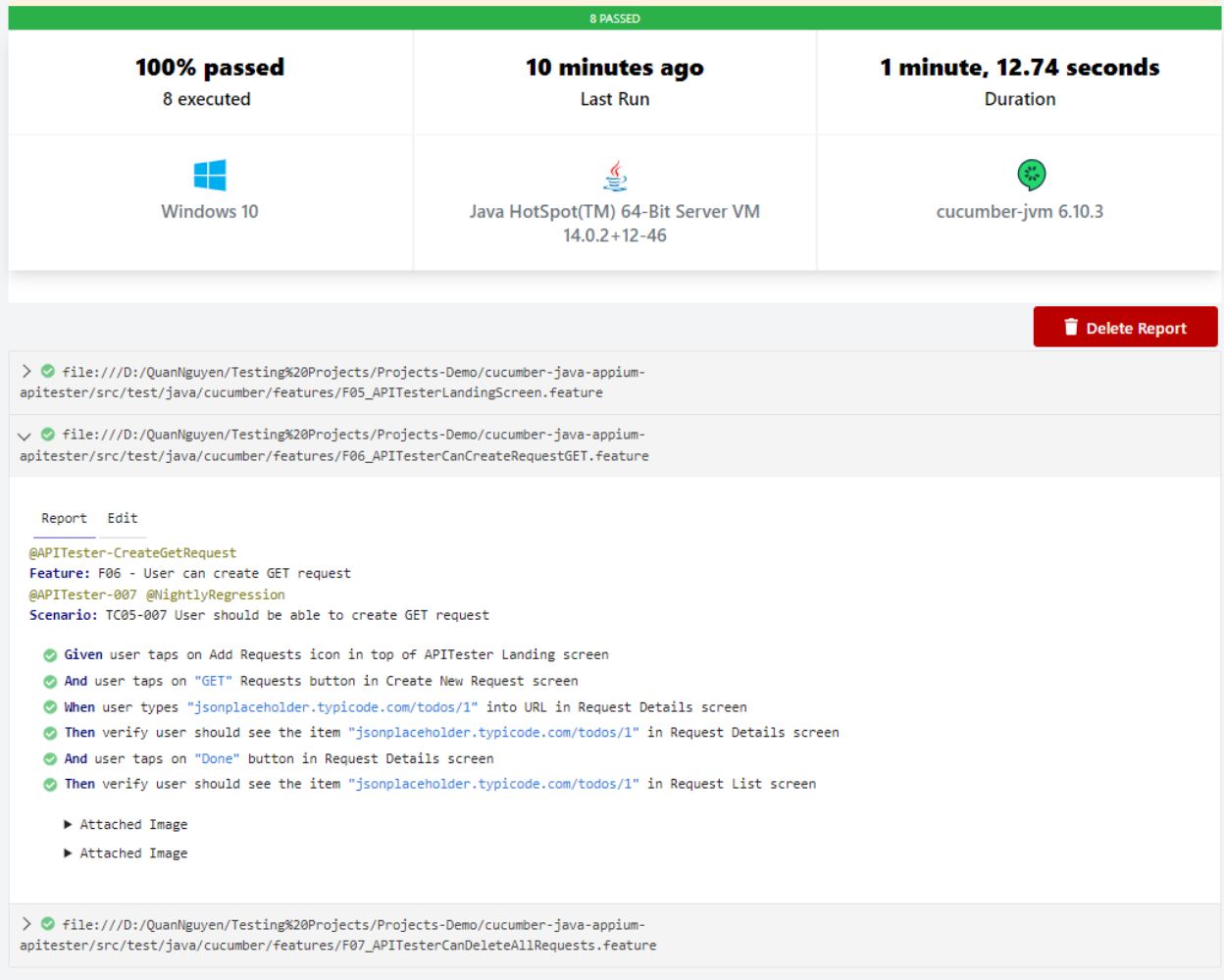
Report Edit

```
@APITester
Feature: F01 - User can see API Tester Landing Screen
@APITester-001
Scenario: TC01-001 User launches API Tester app and see Landing screen

  Given verify user should see info in APITester Landing screen
    ▼ Attached Image
```



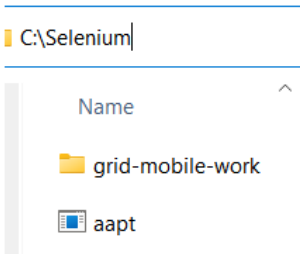
10. Try running multiple tests with tag @NightlyRegression, it should be working





IV. HOW TO GET {PackageName, ActivityName} FROM FILE APK

1. Download app ‘aapt’



2. Run cmd → ***cd C:\Selenium*** → ***aapt dump badging "D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\APITester_7.2.apk"***

   → *package: name='apitester.org'*

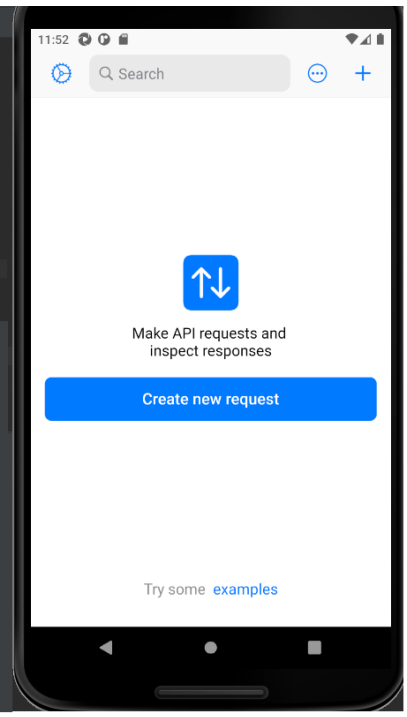
   → *launchable-activity: name='apitester.org.MainActivity'*

```
C:\WINDOWS\system32\cmd.
Microsoft Windows [Version 10.0.22621.2134]
(c) Microsoft Corporation. All rights reserved.

C:\Users\QUANNGUYEN>cd C:\Selenium

C:\Selenium>aapt dump badging "D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\APITester_7.2
.apk"
package: name='apitester.org' versionCode='624' versionName='7.2' compileSdkVersion='33' compileSdkVersionCodename='13'
sdkVersion:'21'
targetSdkVersion:'33'
uses-permission: name='android.permission.INTERNET'
uses-permission: name='android.permission.ACCESS_NETWORK_STATE'
uses-permission: name='android.permission.CHANGE_NETWORK_STATE'
application-label:'API Tester'
application-icon-640:'res/mipmap-anydpi-v26/ic_launcher.xml'
application-icon-65534:'res/mipmap-anydpi-v26/ic_launcher.xml'
application: label='API Tester' icon='res/mipmap-anydpi-v26/ic_launcher.xml'
launchable-activity: name='apitester.org.MainActivity'  label='API Tester' icon=''
feature-group: label=''
  uses-feature: name='android.hardware.faketouch'
  uses-implied-feature: name='android.hardware.faketouch' reason='default feature for all apps'
main
other-activities
supports-screens: 'small' 'normal' 'large' 'xlarge'
supports-any-density: 'true'
```

3. The PackageName, ActivityName should be written in the file config.propertise file.

```
config.properties   .gitignore
iosPlatformVersion=11.4
iosDeviceName=IPhone12
iosAppPath=UnknownYet

#if platform == android
androidUdid=[No-need-now]emulator-5554
androidAutomationName=UiAutomator2
androidPlatformVersion=[No-need-now]11
androidDeviceName=[No-need-now]5554-Nexus-6-Plus-Black
androidAppPath=D:/QuanNguyen/Testing Projects/Projects-Demo/cucumber-java-appium-apitester/APITester_7.2.apk
androidAppPackageName=apitester.org
androidAppActivityName=apitester.org.MainActivity

androidSkipUnlock=true
```

```
C:\Users\QUANNGUYEN>adb devices
List of devices attached
emulator-5554   device
```



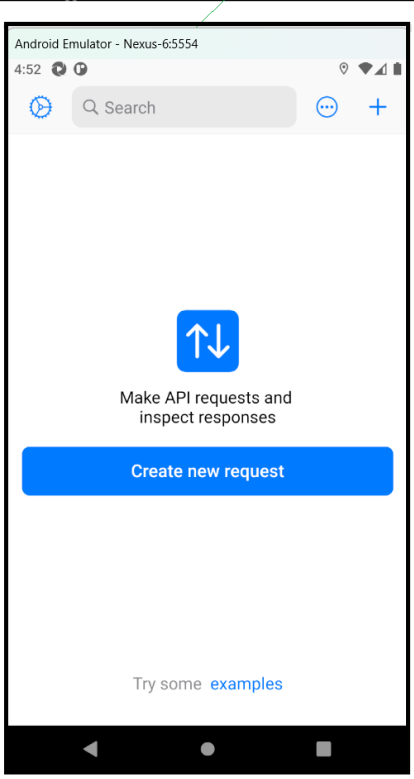
V. HOW TO CAPTURE ELEMENT WITH APPIUM INSPECTOR

First we need to understand the architecture. For example here, we have 2 appium servers handing 2 devices

Server A at port 5554, handles device running automation

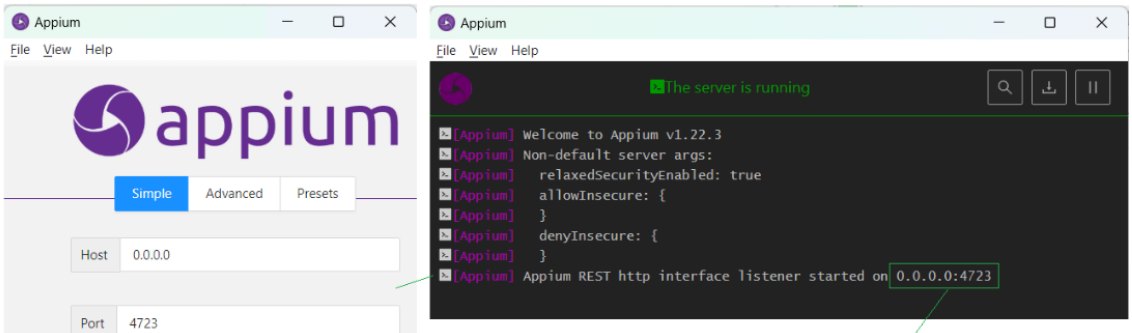
```
C:\WINDOWS\system32\cmd.

C:\Selenium\grid-mobile-work>java -jar selenium-server-standalone-3.141.59.jar -role hub
16:42:51.212 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
16:42:51.285 INFO [GridLauncherV3.lambda$buildLaunchers$5] - Launching Selenium Grid hub on port 4444
2023-08-22 16:42:51.685:INFO::main: Logging initialized @690ms to org.seleniumhq.jetty9.util.log.StdErrLog
16:42:51.904 INFO [Hub.start] - Selenium Grid hub is up and running
16:42:51.905 INFO [Hub.start] - Nodes should register to http://192.168.137.1:4444/grid/register/
16:42:51.906 INFO [Hub.start] - Clients should connect to http://192.168.137.1:4444/wd/hub
16:43:03.817 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5554
```

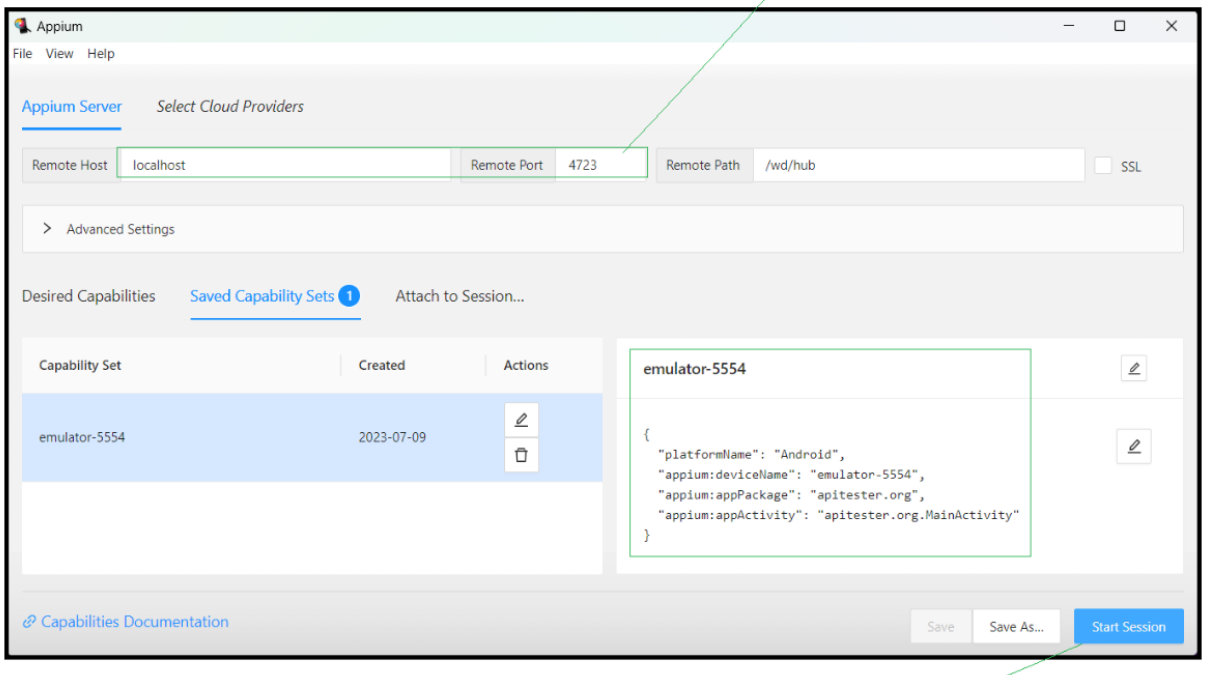
```
npm

C:\Selenium\grid-mobile-work>appium -p 5554 --nodeconfig C:\Selenium\grid-mobile-work\device-5554-nexus-6-black.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5554
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5554
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]         http://192.168.137.1:5554/
[Appium]         http://192.168.2.48:5554/
[Appium]         http://127.0.0.1:5554/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
       --> GET /wd/hub/status
```

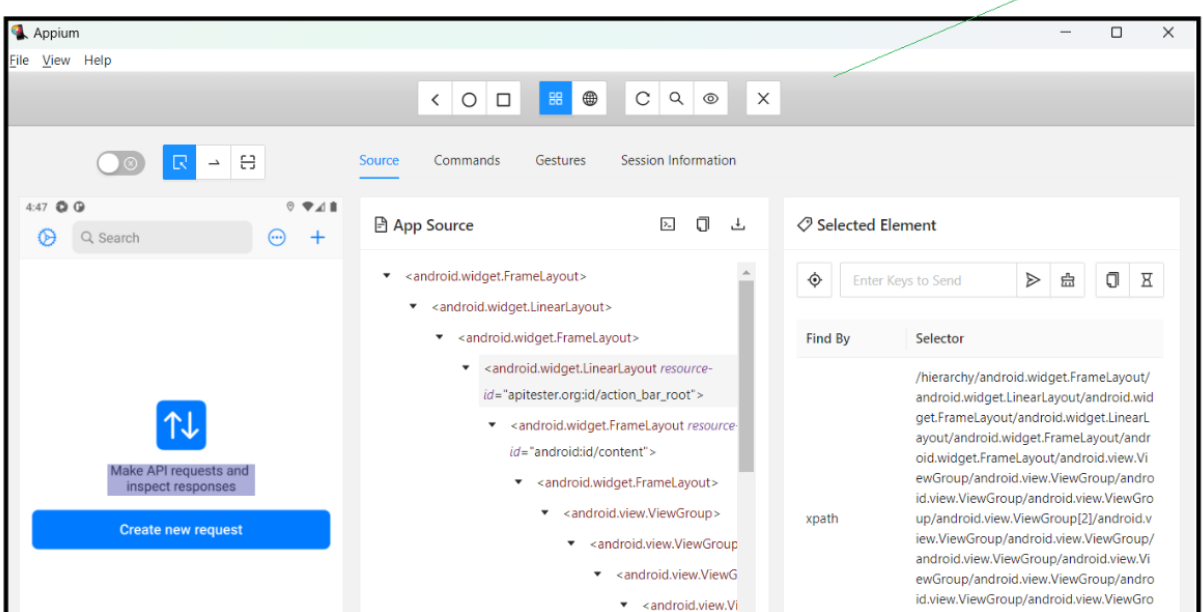



```
config.properties
takeScreenshotForEveryStep=false
takeScreenshotForVerificationStep=true
takeScreenshotWhenScenarioFails=true
browserHeadless=false
appiumServerURL=http://192.168.2.48:5554/
```

Server B at port 4723, handles device 'inspector' which connect to device port 5554



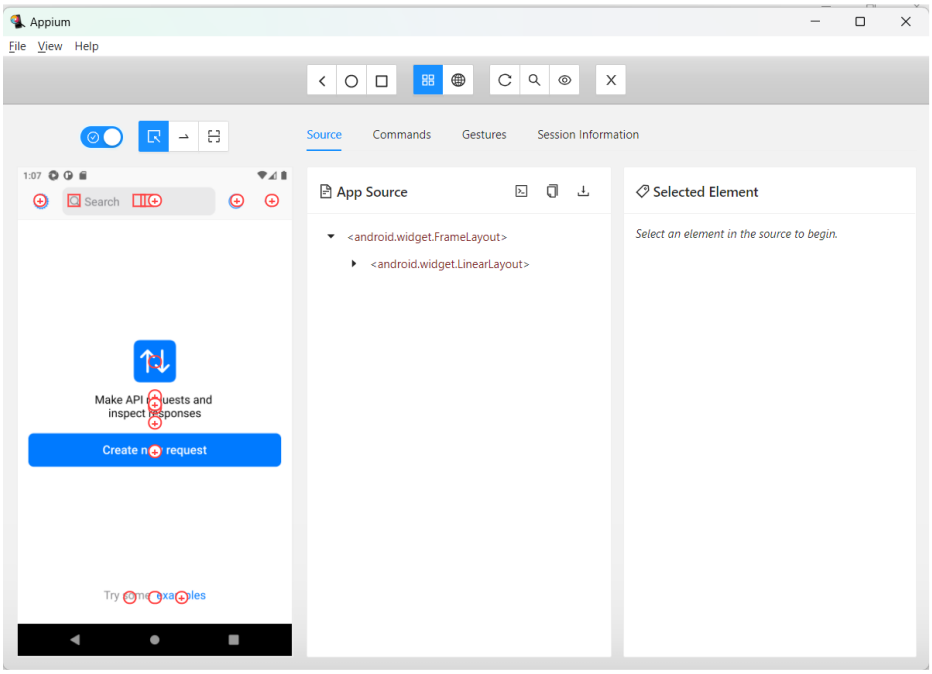




JSON Representation

```
{
  "platformName": "Android",
  "appium:deviceName": "emulator-5554",
  "appium:appPackage": "apitester.org",
  "appium:appActivity": "apitester.org.MainActivity"
}
```

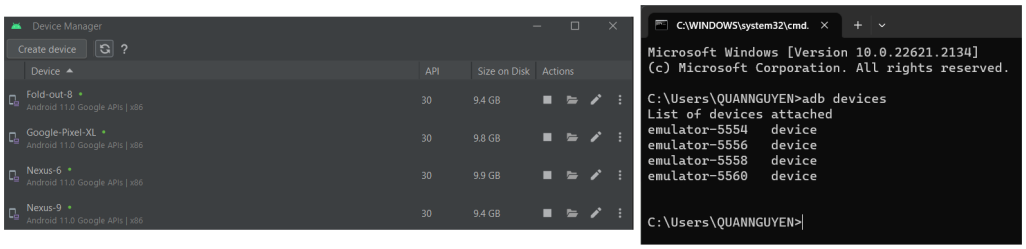
Here you go!

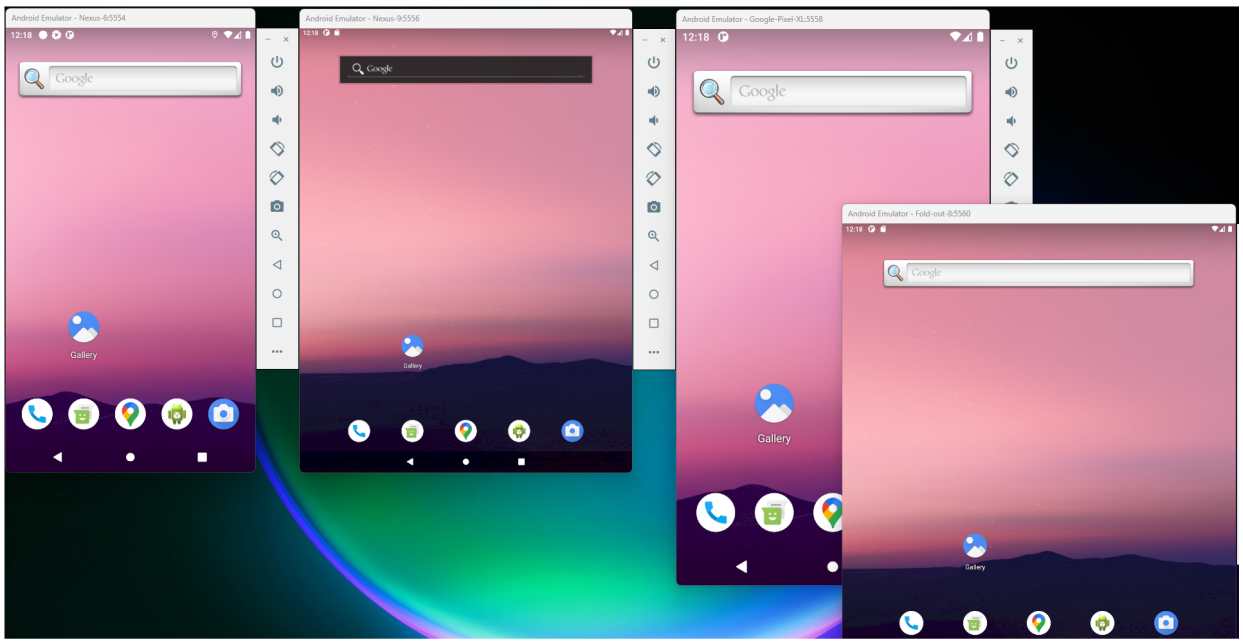


VI. HOW TO RUN TEST PARALELLY WITH SELENIUM GRID

1. Start 4 devices in order:
    a. Nexus-6 → emulator-5554
    b. Nexus-9 → emulator-5556
    c. Google-Pixel-XL → emulator-5558
    d. Fold-out-8 → emulator-5560

2. install the SUT under 4 devices





3. At C:\Selenium\grid-mobile-work → selenium Grid and its 4 nodes are configured as below:

0.StartGridHubAndIts4Nodes

File Edit View

```
start startHub.bat
start startAppium5554-Nexus-6.bat
start startAppium5556-Nexus-9.bat
start startAppium5558-Google-Pixel-XL.bat
start startAppium5560-Fold-out-8.bat
```

startHub

File Edit View

```
java -jar selenium-server-standalone-3.141.59.jar -role hub
```

startAppium5554-Nexus-6

File Edit View

```
appium -p 5554 --nodeconfig C:\Selenium\grid-mobile-work\device-5554-Nexus-6.json
```

startAppium5556-Nexus-9

File Edit View

```
appium -p 5556 --nodeconfig C:\Selenium\grid-mobile-work\device-5556-Nexus-9.json
```

startAppium5558-Google-Pixel-XL

File Edit View

```
appium -p 5558 --nodeconfig C:\Selenium\grid-mobile-work\device-5558-Google-Pixel-XL.json
```

startAppium5560-Fold-out-8

File Edit View

```
appium -p 5560 --nodeconfig C:\Selenium\grid-mobile-work\device-5560-Fold-out-8.json
```

device-5554-Nexus-6

File Edit View

```
{
  "capabilities":
  [
    {
      "deviceName": "Nexus 6 API 30",
      "platformName": "Android",
      "browserName":"Nexus 6 API 30",
      "platformVersion": "11",
      "maxInstances": 1
    }
  ],
  "configuration":
  {
    "cleanUpCycle":2000,
    "timeout":30000,
    "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy",
    "url":"http://0.0.0.0:5554/wd/hub",
    "host": "0.0.0.0",
    "port": 5554,
    "maxSession": 1,
    "register": true,
    "registerCycle": 5000,
    "hubPort": "4444",
    "hubHost": "192.168.2.48"
  }
}
```

device-5556-Nexus-9

File Edit View

```
{
  "capabilities":
  [
    {
      "deviceName": "Nexus 9 API 30",
      "platformName": "Android",
      "browserName":"Nexus 9 API 30",
      "platformVersion": "11",
      "maxInstances": 1
    }
  ],
  "configuration":
  {
    "cleanUpCycle":2000,
    "timeout":30000,
    "proxy": "org.openqa.grid.selenium.proxy.DefaultRemoteProxy",
    "url":"http://0.0.0.0:5556/wd/hub",
    "host": "0.0.0.0",
    "port": 5556,
    "maxSession": 1,
    "register": true,
    "registerCycle": 5000,
    "hubPort": "4444",
    "hubHost": "192.168.2.48"
  }
}
```

device-5558-Google-Pixel-XL

File Edit View

```
{
  "capabilities":
  [
    {
      "deviceName": "Google Pixel XL",
      "platformName": "Android"
```

device-5560-Fold-out-8

File Edit View

```
{
  "capabilities":
  [
    {
      "deviceName": "Foldable 8 API 30",
      "platformName": "Android"
```

4. At C:\Selenium\grid-mobile-work → Run **0.StartGridHubAndIts4Nodes** → It will launch selenium Grid and start 4 nodes

```
C:\WINDOWS\system32\cmd.

C:\Selenium\grid-mobile-work>java -jar selenium-server-standalone-3.141.59.jar -role hub
01:00:15.071 INFO [GridLauncherV3.parse] - Selenium server version: 3.141.59, revision: e82be7d358
01:00:15.162 INFO [GridLauncherV3.lambda$buildLaunchers$5] - Launching Selenium Grid hub on port 4444
2023-08-23 01:00:15.612:INFO::main: Logging initialized @760ms to org.seleniumhq.jetty9.util.log.StdErrLog
01:00:15.879 INFO [Hub.start] - Selenium Grid hub is up and running
01:00:15.881 INFO [Hub.start] - Nodes should register to http://192.168.2.48:4444/grid/register/
01:00:15.882 INFO [Hub.start] - Clients should connect to http://192.168.2.48:4444/wd/hub
01:00:31.262 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5556
01:00:31.262 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5554
01:00:31.262 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5558
01:00:31.907 INFO [DefaultGridRegistry.add] - Registered a node http://0.0.0.0:5560
```

```
npm

C:\Selenium\grid-mobile-work>appium -p 5554 --nodeconfig C:\Selenium\grid-mobile-work\device-5554-Nexus-6.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5554
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5554
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]         http://192.168.2.48:5554/
[Appium]         http://127.0.0.1:5554/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
      --> GET /wd/hub/status
```

```
npm

C:\Selenium\grid-mobile-work>appium -p 5556 --nodeconfig C:\Selenium\grid-mobile-work\device-5556-Nexus-9.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5556
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5556
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]         http://192.168.2.48:5556/
[Appium]         http://127.0.0.1:5556/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
      --> GET /wd/hub/status
```

```
npm

C:\Selenium\grid-mobile-work>appium -p 5558 --nodeconfig C:\Selenium\grid-mobile-work\device-5558-Google-Pixel-XL.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5558
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5558
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]         http://192.168.2.48:5558/
[Appium]         http://127.0.0.1:5558/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
      --> GET /wd/hub/status
```

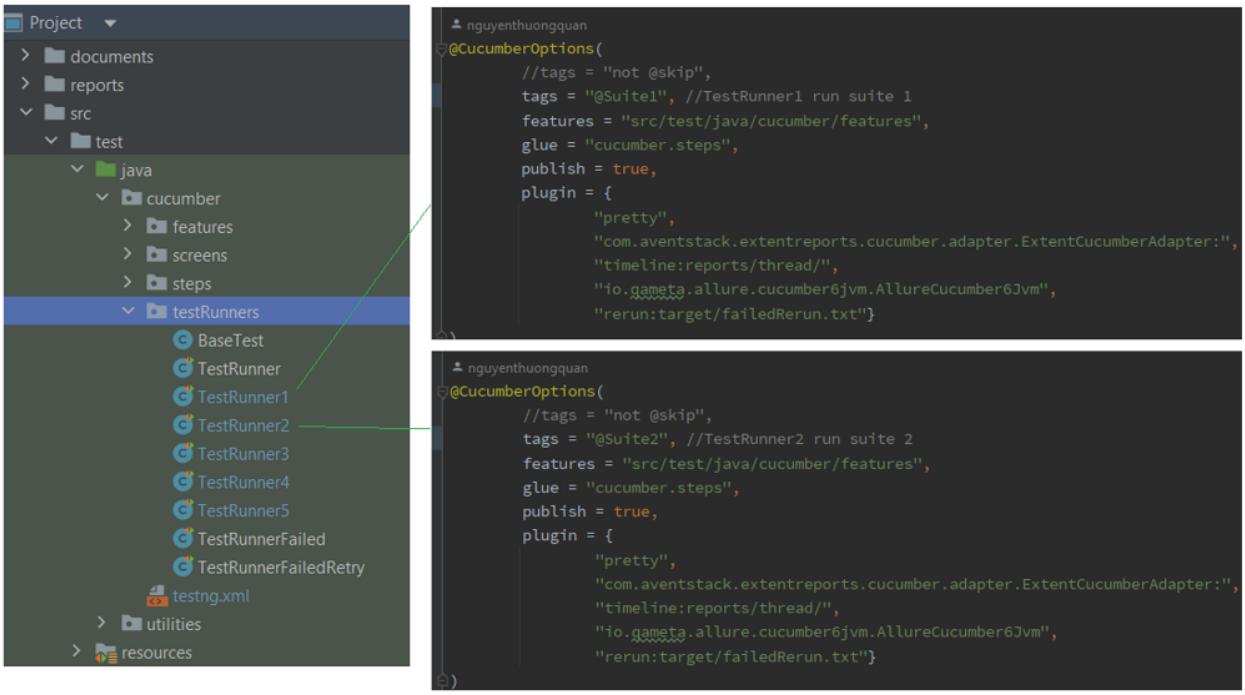
```
npm

C:\Selenium\grid-mobile-work>appium -p 5560 --nodeconfig C:\Selenium\grid-mobile-work\device-5560-Fold-out-8.json
[Appium] Welcome to Appium v2.0.0-rc.5
[Appium] Non-default server args:
[Appium] {
[Appium]   port: 5560
[Appium] }
[Appium] Attempting to load driver uiautomator2...
[debug] [Appium] Requiring driver at C:\Users\QUANNGUYEN\.appium\node_modules\appium-uiautomator2-driver
[debug] [Appium] Starting auto register thread for the grid. Will try to register every 5000 ms.
[Appium] Appium REST http interface listener started on http://0.0.0.0:5560
[Appium] You can provide the following URLS in your client code to connect to this server:
[Appium]         http://192.168.2.48:5560/
[Appium]         http://127.0.0.1:5560/ (only accessible from the same host)
[Appium] Available drivers:
[Appium]   - uiautomator2@2.29.2 (automationName 'UiAutomator2')
[Appium] No plugins have been installed. Use the "appium plugin" command to install the one(s) you want to use.
[debug] [Appium] Appium successfully registered with the the grid on http://192.168.2.48:4444
      --> GET /wd/hub/status
```

5. Open testng.xml review devices which take care each TestRunner in Test Class → Right click and Run

testng.xml

```xml
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE suite SYSTEM "http://testng.org/testng-1.0.dtd">

<suite name="Android-Test-Suite" parallel="tests" thread-count="4">

    <test name="5554-Nexus-6">
        <parameter name="platform" value="android"/>
        <parameter name="platformVersion" value="11"/>
        <parameter name="udid" value="emulator-5554"/>
        <parameter name="appiumServer" value="http://192.168.2.48:5554/wd/hub"/>
        <classes>
            <class name="cucumber.testRunners.TestRunner1"/>
        </classes>
    </test>

    <test name="5556-Nexus-9">
        <parameter name="platform" value="android"/>
        <parameter name="platformVersion" value="11"/>
        <parameter name="udid" value="emulator-5556"/>
        <parameter name="appiumServer" value="http://192.168.2.48:5556/wd/hub"/>
        <classes>
            <class name="cucumber.testRunners.TestRunner2"/>
        </classes>
    </test>

    <test name="5558-GooglePixel-XL">
        <parameter name="platform" value="android"/>
        <parameter name="platformVersion" value="11"/>
        <parameter name="udid" value="emulator-5558"/>
        <parameter name="appiumServer" value="http://192.168.2.48:5558/wd/hub"/>
        <classes>
            <class name="cucumber.testRunners.TestRunner3"/>
        </classes>
    </test>

    <test name="5560-Foldout-8">
        <parameter name="platform" value="android"/>
        <parameter name="platformVersion" value="11"/>
        <parameter name="udid" value="emulator-5560"/>
        <parameter name="appiumServer" value="http://192.168.2.48:5560/wd/hub"/>
        <classes>
            <class name="cucumber.testRunners.TestRunner4"/>
        </classes>
    </test>

    <!--    <test name="5552-Samsung-S9-Plus">-->
    <!--        <parameter name="platform" value="android"/>-->
    <!--        <parameter name="platformVersion" value="10"/>-->
    <!--        <parameter name="udid" value="192.168.2.93:5552"/> &lt;!&ndash; This is devices name when 'adb devices'&ndash;&gt;-->
    <!--        <parameter name="appiumServer" value="http://192.168.2.48:5552/wd/hub"/>-->
    <!--        <classes>-->
    <!--            <class name="cucumber.testRunners.TestRunner1"/>-->
    <!--        </classes>-->
    <!--    </test>-->

</suite>
```

6. Each test Runner use each tags

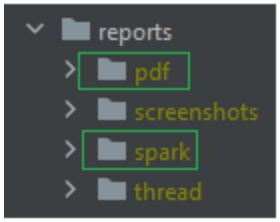



```
@APITester-DeleteRequest
  Feature: F05 - User can delete all requests

    @APITester-001 @NightlyRegression @Suite1
    Scenario: TC-001 User should be able to delete all requests
      Given user taps on More Option icon in top of Landing screen
      And verify user should see item "Delete all requests"
      When user taps on "Delete all requests" in More Option panel
      And verify user should see item "DELETE"
      And user confirms "DELETE" in delete all requests popup
      Then verify user should see item "Create new request" in Landing screen
```

```
@APITester-CreateGetRequest
  Feature: F06 - User can create GET request

    @APITester-002 @NightlyRegression @Suite2
    Scenario: TC-002 User should be able to create GET request
      Given user taps on Add Requests icon in top of APITester Landing screen
      And user taps on "GET" Requests button in Create New Request screen
      When user types "jsonplaceholder.typicode.com/todos/1" into URL in Request Details screen
      And user taps on "Done" button in Request Details screen
      Then verify user should see the item "jsonplaceholder.typicode.com/todos/1" in Request List screen
```

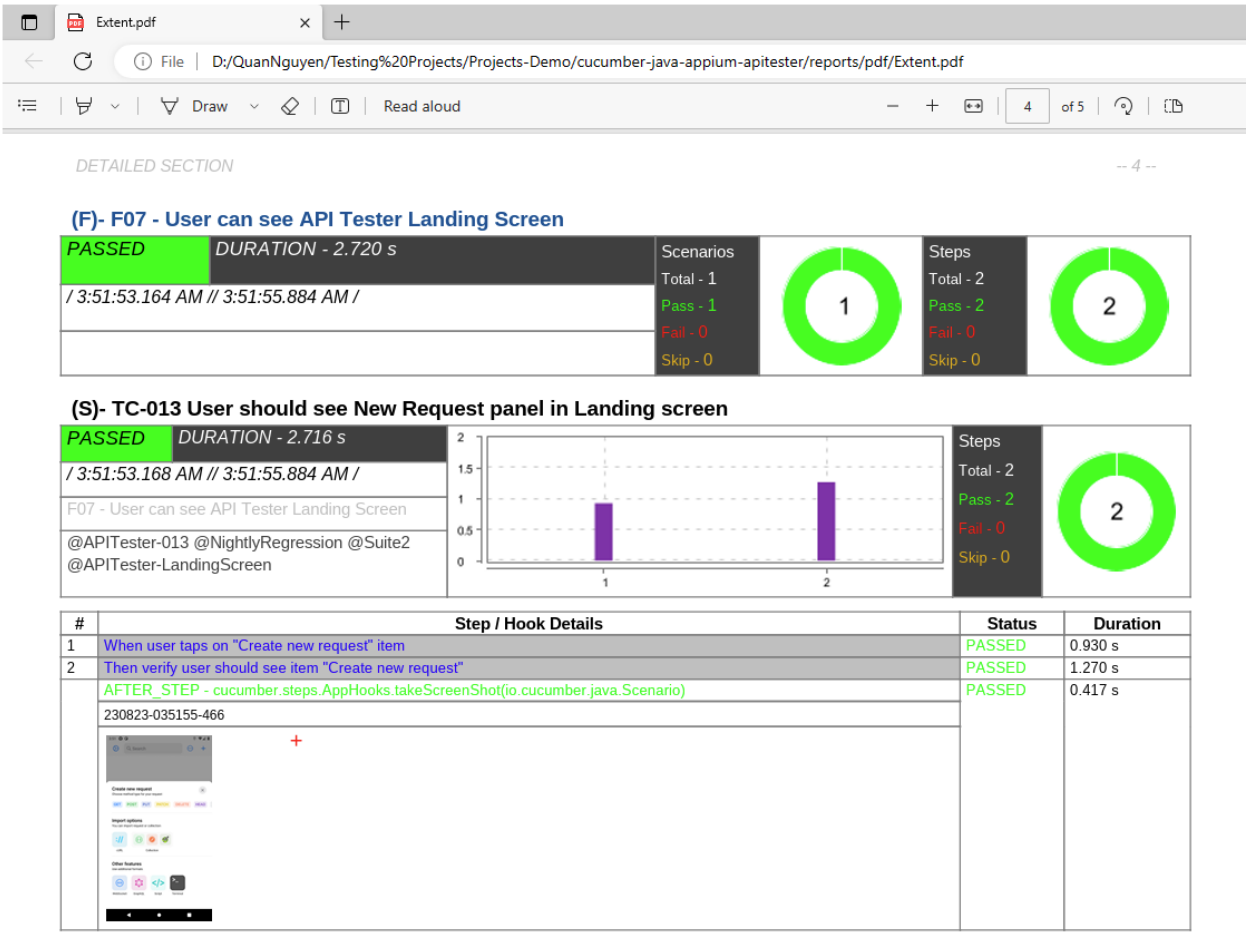
VII. HOW TO GENERATE ALLURE REPORT

3 kinds of reports are generated in IntelliJ



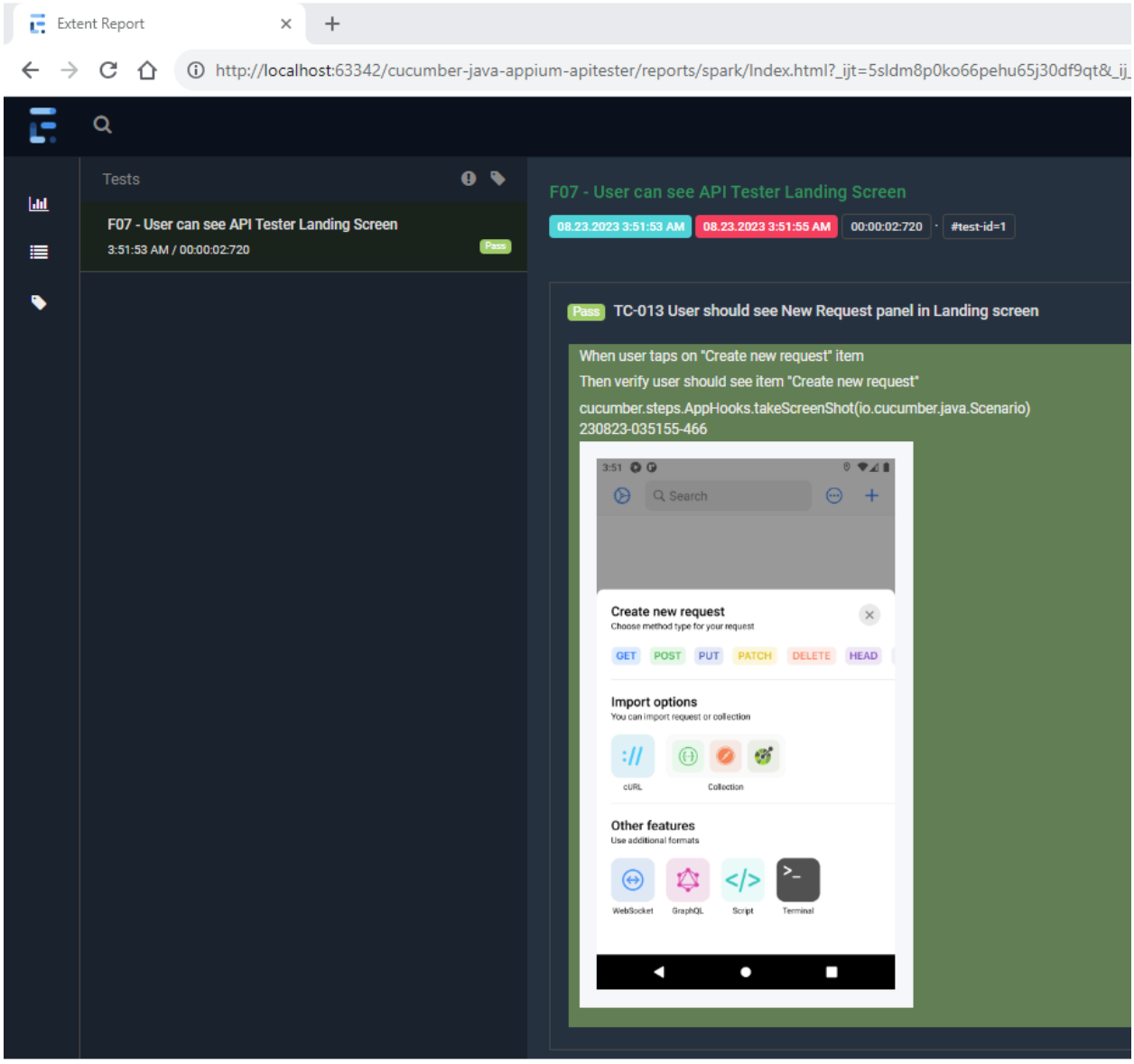
a. Extend Report

- Folder ‘reports’ > ‘pdf’ > Extend.pdf



b. Spark Report

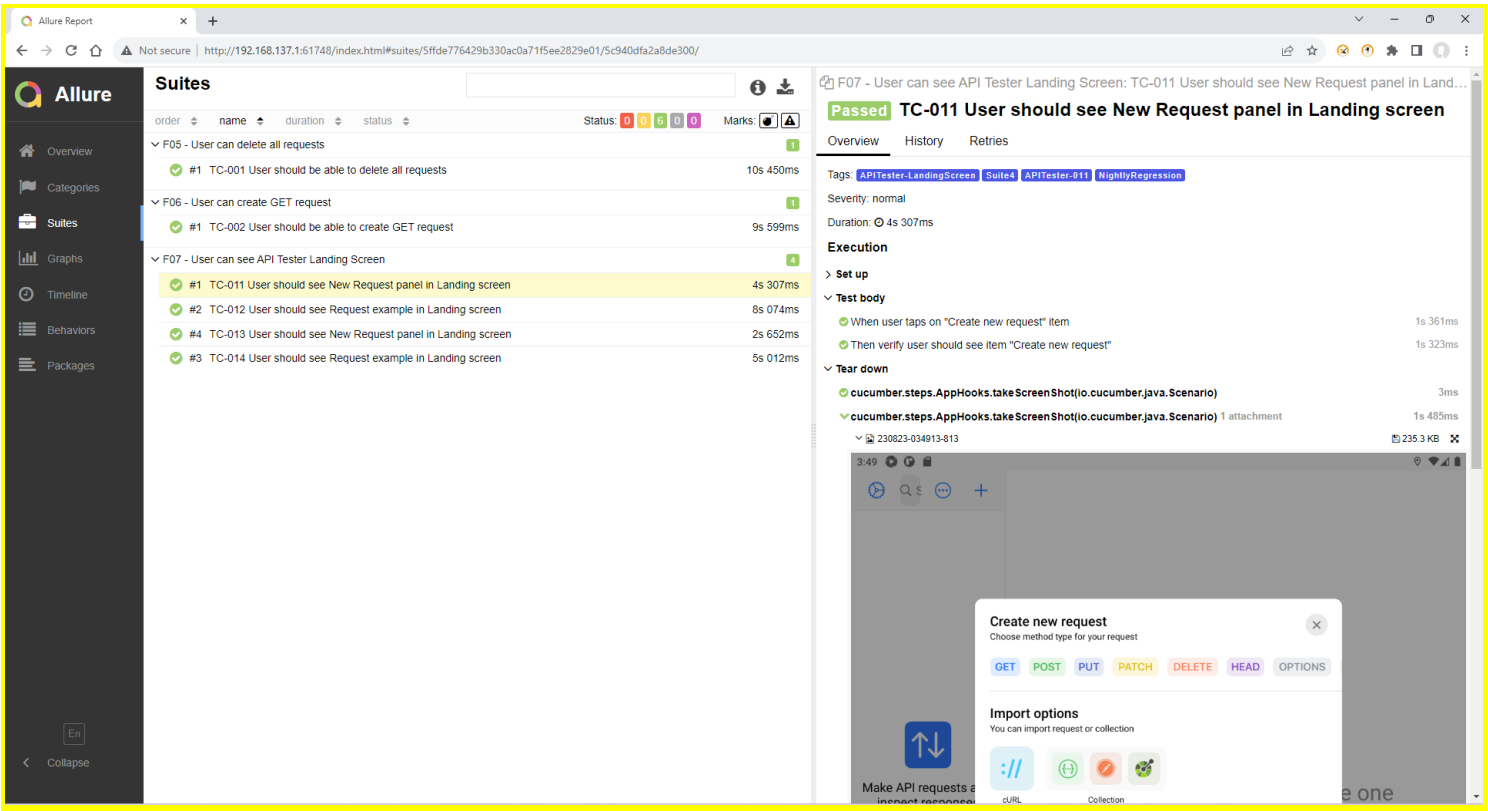
- Folder ‘reports’ > ‘spark’ > Index.html ← open with browser



c. Allure Report

- Folder ‘target’ > run cmd: **allure serve allure-results** -> to see report locally

```
Terminal:  Local

Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\target> allure serve allure-results
Generating report to temp directory...
Report successfully generated to C:\Users\QUANNGUYEN\AppData\Local\Temp\2065371753058710266\allure-report
Starting web server...
2023-08-23 04:10:28.244:INFO::main: Logging initialized @2990ms to org.eclipse.jetty.util.log.StdErrLog
Server started at <http://192.168.137.1:63647/>. Press <Ctrl+C> to exit
```

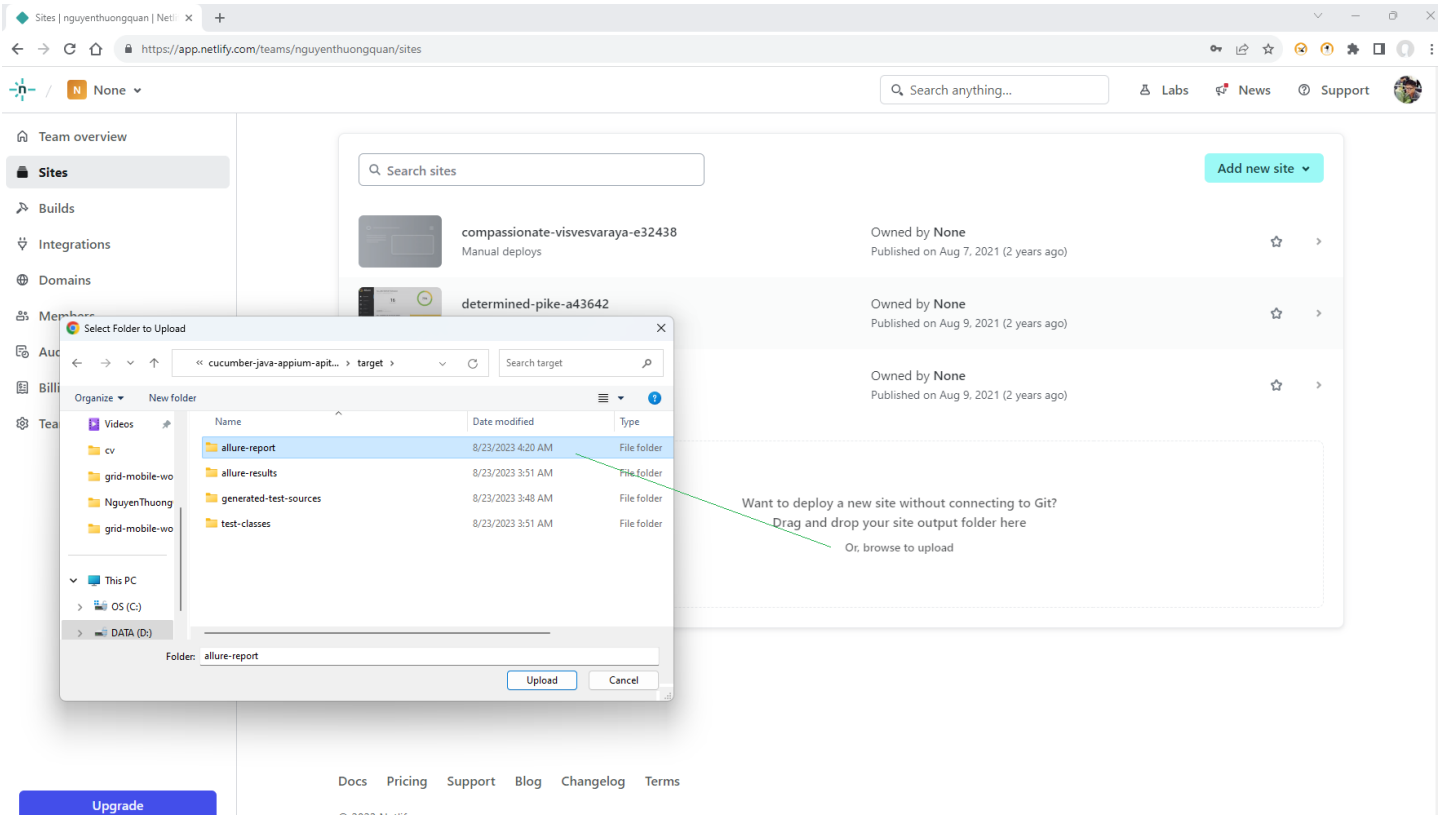


***** Want to public Allure report to share to people ?**

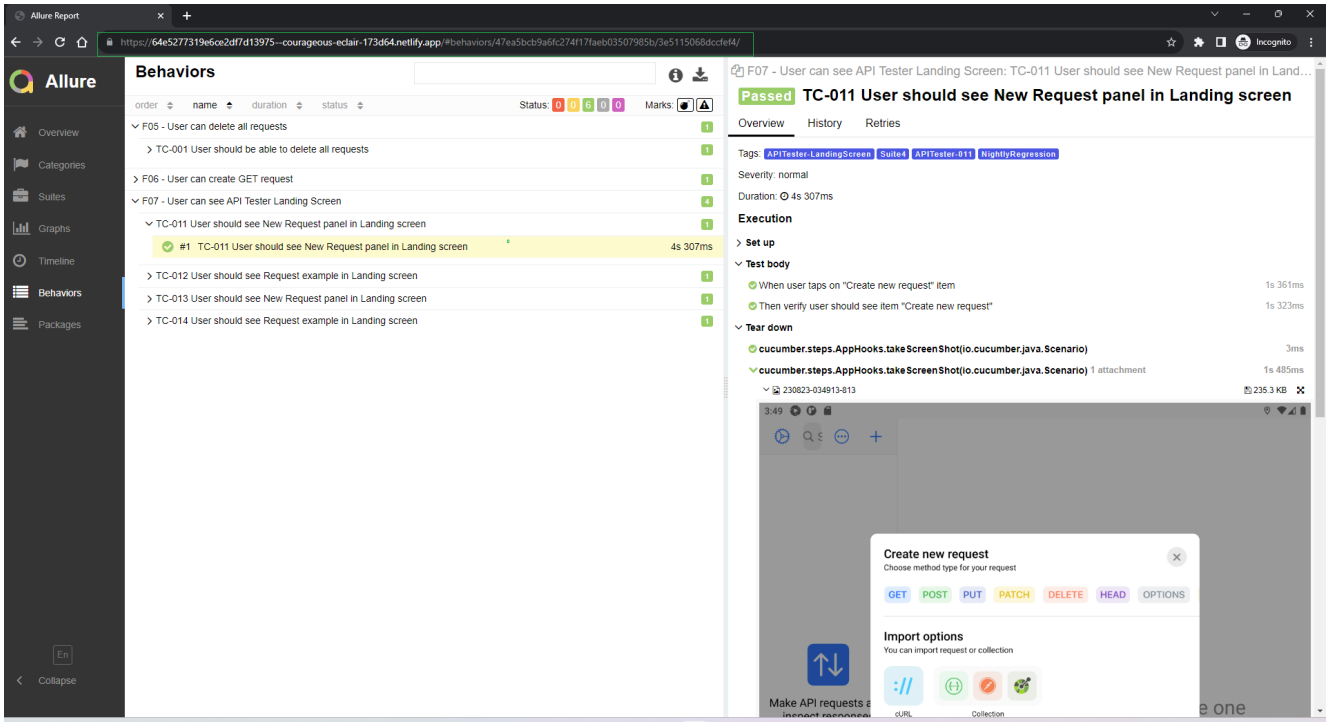
- This is not good for security because guys in **netlify** can read our report
- target > run cmd: **npx allure generate --clean** --> to generate ‘allure-report’ folder

```
Terminal:  Local
PS D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\target> npx allure generate --clean
Report successfully generated to allure-report
npm notice
npm notice New minor version of npm available! 9.5.1 -> 9.8.1
npm notice Changelog: https://github.com/npm/cli/releases/tag/v9.8.1
npm notice Run npm install -g npm@9.8.1 to update!
npm notice
PS D:\QuanNguyen\Testing Projects\Projects-Demo\cucumber-java-appium-apitester\target>
```

- Drop 'allure-report' to https://app.netlify.com/teams/nguyenthuongquan/overview



- Share the link to others: https://64e5277319e6ce2df7d13975--courageous-eclair-173d64.netlify.app/#behaviors/47ea5bcb9a6fc274f17faeb03507985b/3e5115068dccfef4/



— THE END — HAPPY TESTING —