endava

MOBILE TEST AUTOMATION CONFIGURATION

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Environment configuration for mobile automation

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1. Verify that JDK is installed correctly, if you need to install JDK, follow these steps:

- Download and install JDK 8 by clicking on the following link http://www.oracle.com/technetwork/java/javase/downloads/jdk8-downloads-2133151.html

  You can determine if the JDK was successfully installed by typing “java -version” in a Terminal Command Prompt.

  ```
  java -version
  java version "1.8.0_301"
  Java(TM) SE Runtime Environment (build 1.8.0_301-b09)
  Java HotSpot(TM) Client VM (build 25.301-b09, mixed mode)
  ```

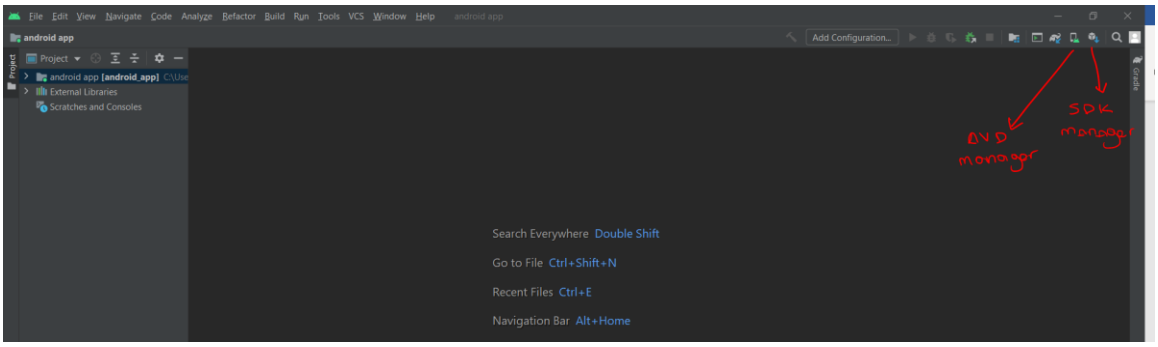
- Set the environment variables for java as JAVA_HOME to the respectively jdk path (ie. C:\Program Files\Java\jdk1.8.0_121)

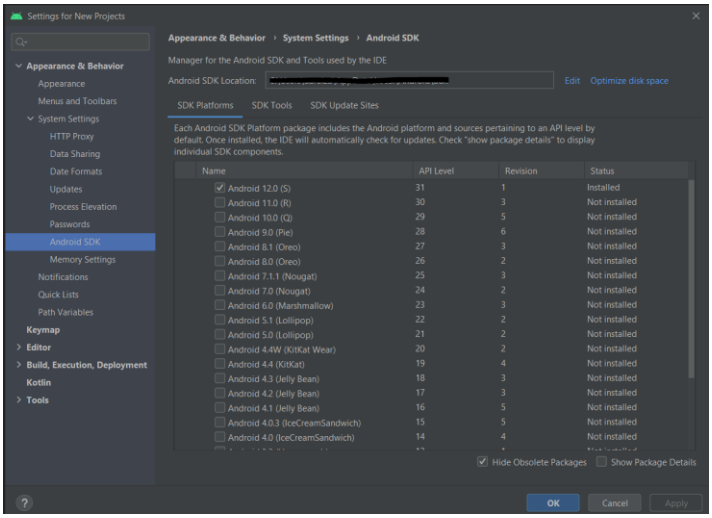
2. Download and install Android SDK

- Download and install Android Studio by clicking on the following link https://developer.android.com/studio/?hl=es-419

- Run SDK Manager

    - Create a project
    - Click on SDK Manager, install tools and extras, include an android version





- Set the environment variables as ANDROID_HOME to the respectively Android path (ie. C:\ProgramFiles\Android\android-sdk)

  Add the location of these 3 folders to the PATH environment, for example:

  (C:\Program Files\android\build-tools) --> ;%ANDROID_HOME%\build-tools;

  (C:\Program Files\android\platform-tools) → ;%ANDROID_HOME%\platform-tools;

  (C:\Program Files\android\tools)--> ;%ANDROID_HOME%\tools;

  PATH = ...

  ;%ANDROID_HOME%\tools;%ANDROID_HOME%\platform-tools;%ANDROID_HOM

  E%\build-tools;

- Verify that SDK Is correctly installed:

  Open the terminal command prompt window and write “adb”

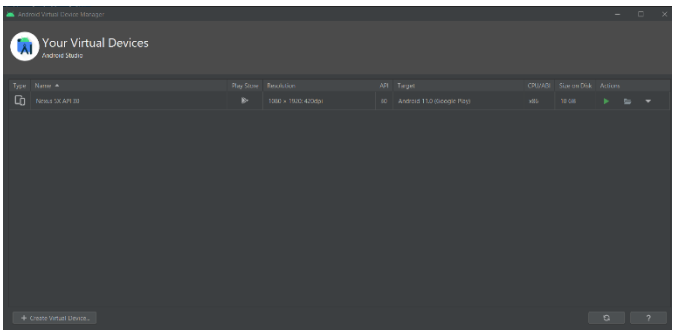
  adb

  Android Debug Bridge version 1.0.41

  Version 31.0.3-7562133

3. Create a virtual device

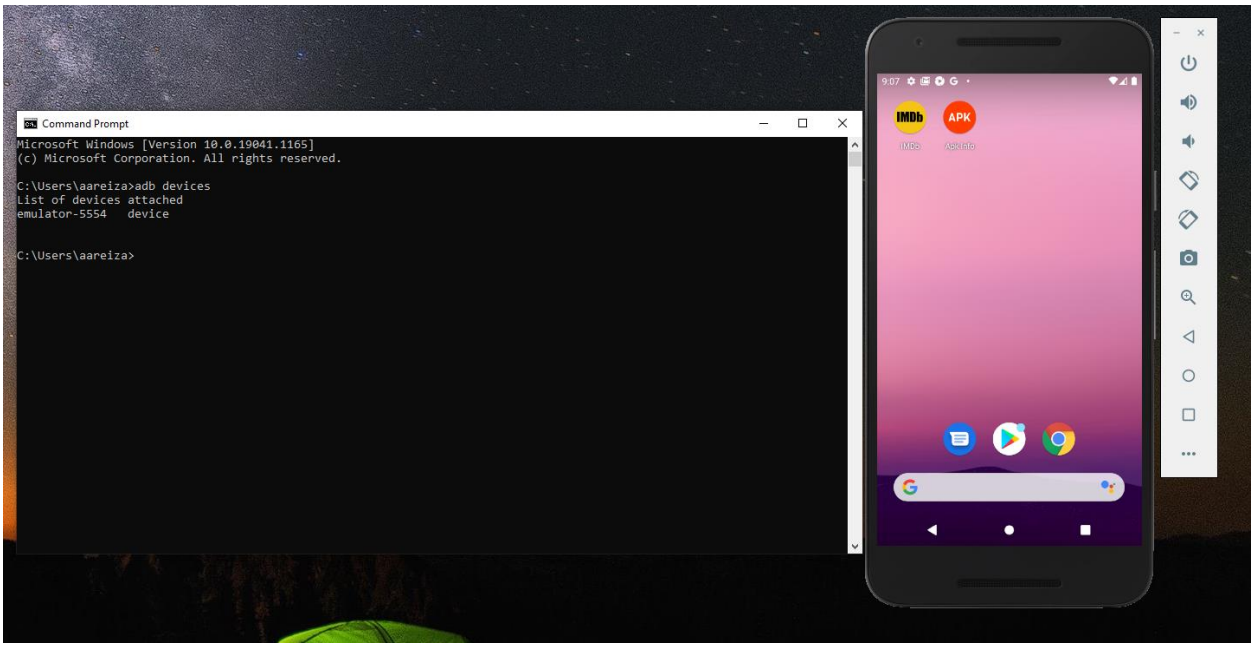
Use the AVD manager to create a new virtual device, when the device is created, open it and run in a terminal window this command (adb devices), this will allow usto know the **deviceName**



adb devices

List of devices attached

emulator-5554 device



4. Install Appium Desktop by clicking on the following link

https://github.com/appium/appium-desktop/releases/tag/v1.15.1

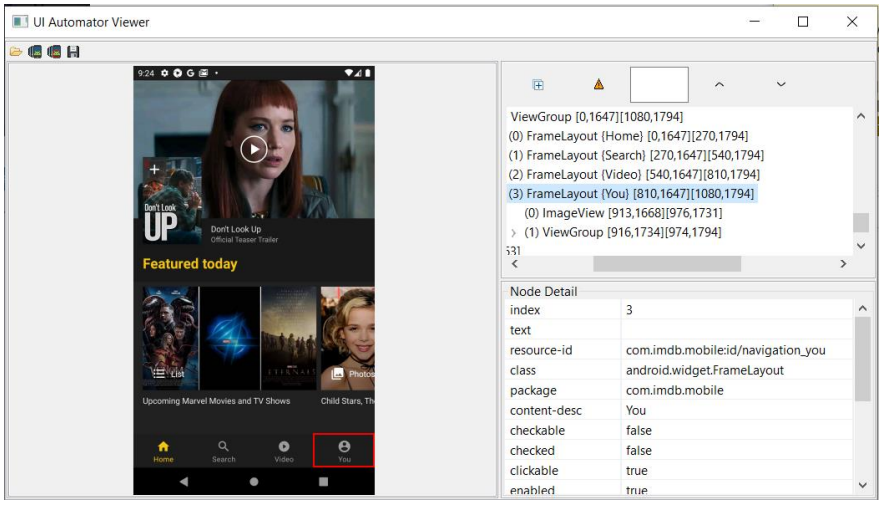
5. Install the app

We can drag and drop the .apk directly to the device to install the application, or we can download it directly from the playstore

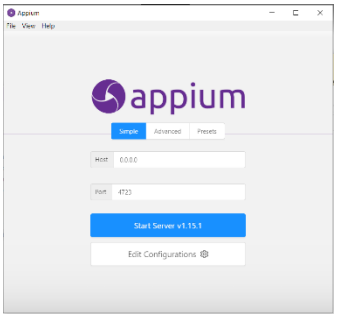
6. Open and Inspect the application

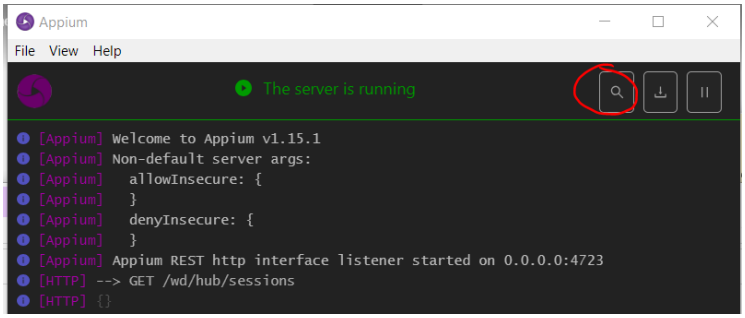
There are two ways to inspect an application for discovering the locators

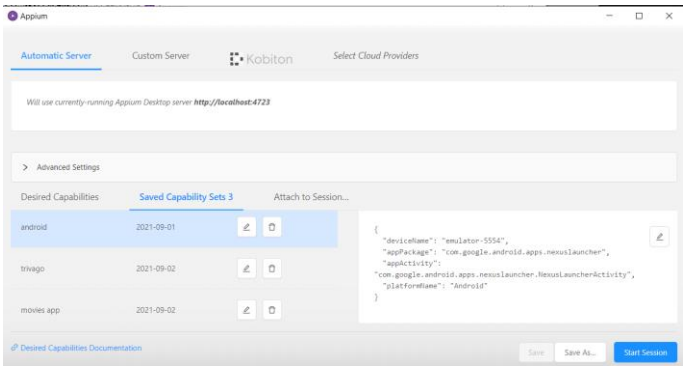
- Go to the following path **C:\Local_Path\Android\Sdk\tools\bin** and double click on **uiautomatorviewer**

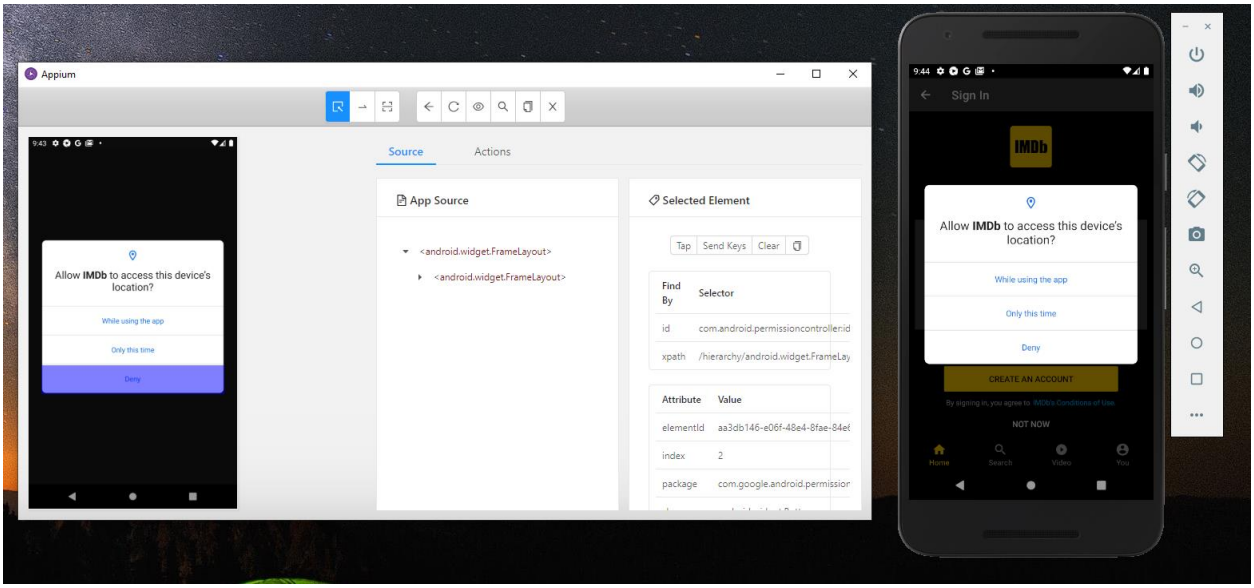


- Open Appium and start the server, click on **start inspector session,** fill the desired capabilities and start the session









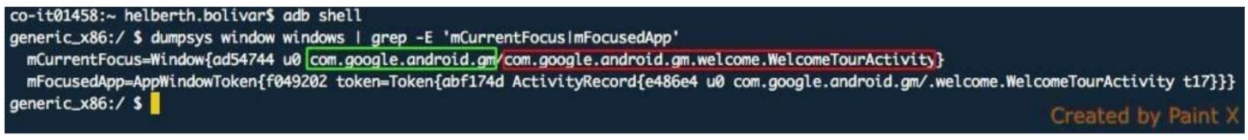
7. Get the Desired capabilities

```
capabilities:

{

	"deviceName": "MyDevice",

	"appPackage": "com.MyAppPackage",

	"appActivity": "com.MyAppActivity",

	"platformName": "Android",

	"app": "C:/PathOfMyApplication.apk" (OPTIONAL)

}
```

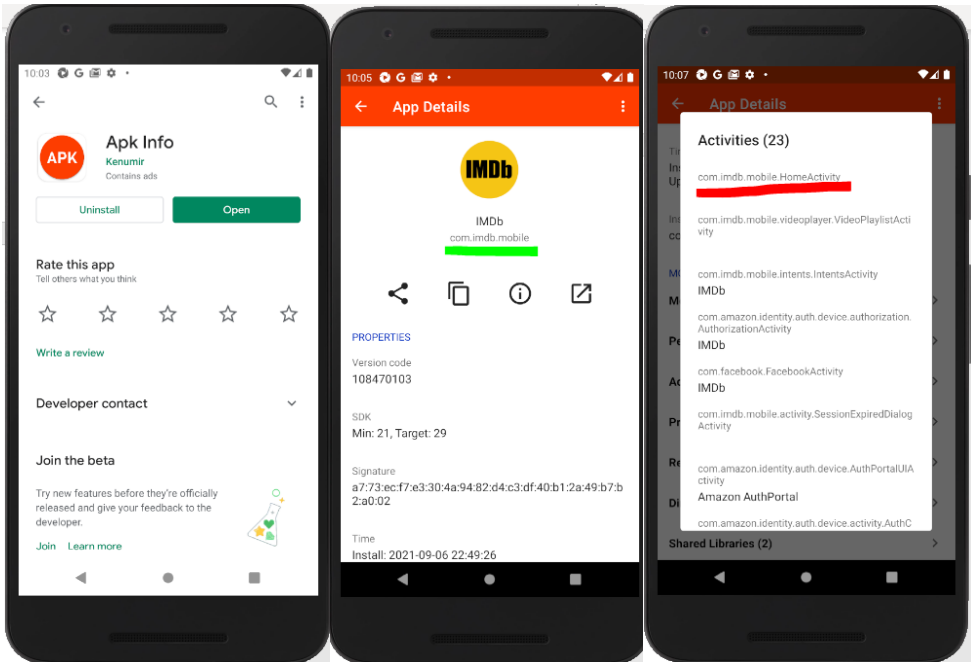
deviceName = adb-devices in a command prompt

appPackage and **appActivity** = open a command prompt and type

```
adb shell (enter)

dumpsys window windows | grep -E 'mCurrentFocus|mFocusedApp' (enter)
```



Another way is to install an application called apk info




```
platformName = "Android",
```