First Appium Test Script – Topics covered in th article

This article covers the below topics, which you can follow to run your test script

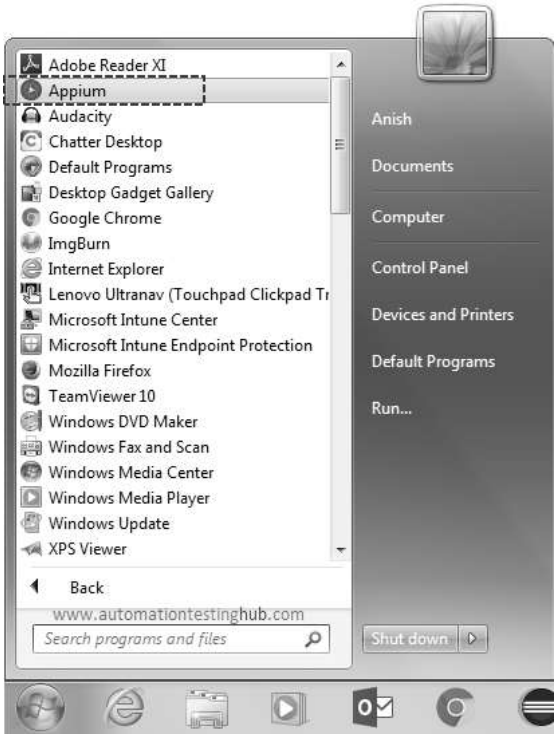
- Start Appium Server
- Get details of the mobile device
- Get details of the app which is to be launched
- Write Appium test script
- Run your test script and check that it launches the app

Let us now work with each of these topics one by one.

Start Appium Server

We are going to use Appium Desktop App to start the Appium server. Follow the steps given below to do this –

1. Go to **Start -> All Programs** and look for **Appium**



2. Click on Appium to open Appium Desktop (it might take 20-30 seconds for Appium Desktop to open)

3. Once Appium Desktop opens, navigate to the **Advanced** tab as shown below

4. Enter the following values in the fields as shown in the below image –

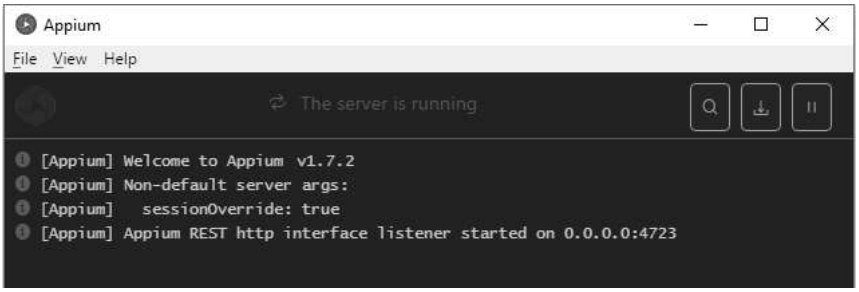
- **Server Address** – 0.0.0.0
- **Server Port** – 4723
- **Allow Session Override** – tick the checkbox

Note: Why did you tick “Allow Session Override” checkbox? When you run an Appium test script, it creates a new session on the Appiu server. If this session doesn’t close properly, then your script would fail when you re-run it. This is because the previous session still ex and thus, Appium server is not able to create a new session.

And when you tick the checkbox, you provide Appium the capability to override the existing session when you re-run scripts. This woul ensure that your scripts don’t fail due to session related issues.

5. Leave all other fields as it is, and then click on **Start Server v1.7.2** button

6. Appium server would start and you would see the screen as shown below



Let us now move over to the next section.

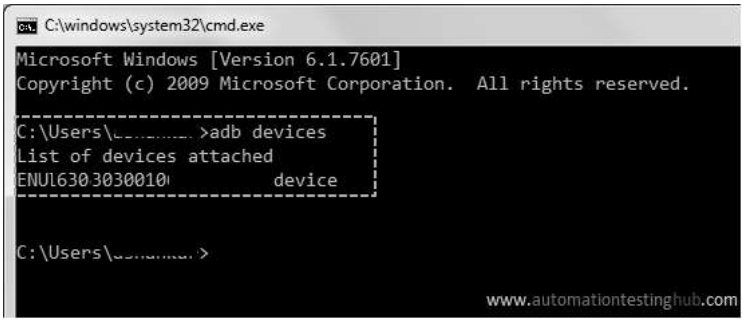
Get your Mobile Phone's Device ID

Appium identifies your mobile phone using its Device Id (also called as its UDID). For example, consider a scenario where you have m mobile phones connected to your machine using USB cables. Now when you run your Appium test script, Appium would detect that yo have multiple devices connected. So it would need the Device ID, so that it can connect to the correct device and run the scripts on tha device. Let us see how you can find the Device ID (or UDID) of your mobile phone –

1. Connect your mobile device to your computer using USB cable. (If your mobile device shows some popup after connecting, then acc that popup)

2. Now open command prompt and run this command: **adb devices**

3. Once you run this command, you would see the details of the device as shown in the below image (if you see some other response as "daemon not running. daemon started successfully", then run the command again)

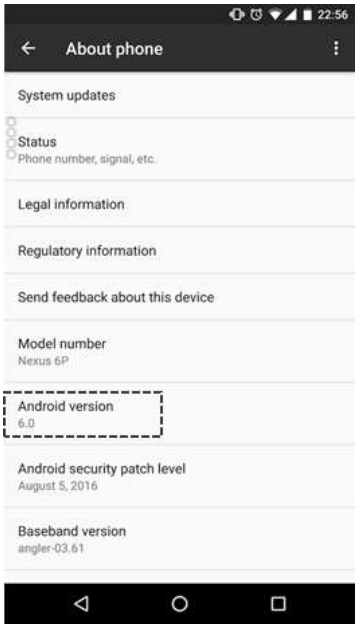


4. From the above screenshot the Device ID is – **ENUL6303030010**. Note down the device ID that you get for your phone, because yo would need to provide that in your Appium test script.

5. Keep your mobile device connected to the USB cable. It needs to remain this way when you run your script.

Get your Mobile Phone's Android version

You would also need to provide your mobile phone's Android version number in the Appium script. To find this, open your mobile phone go to **Setting > About Phone**. In About Phone screen, you can see the Android version as shown below –



Please note that the exact process to check the Android version might differ from phone to phone. If you have difficulties finding it on y device, then please check for the steps on internet.

Find out appPackage and appActivity names of the mobile app

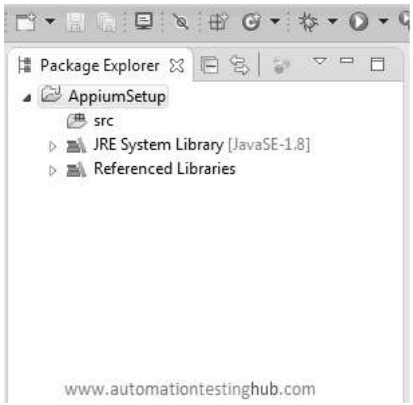
In our previous article on finding appPackage and apActivity name, we covered in detail the process of identifying this information. We also mentioned there, that we will use Play Store app as an example in this article. So for Google Play Store app, we have

- appPackage name as – **com.android.vending**
- and appActivity name as – **com.google.android.finsky.activities.MainActivity**

Write Appium Test Script to launch Play Store app

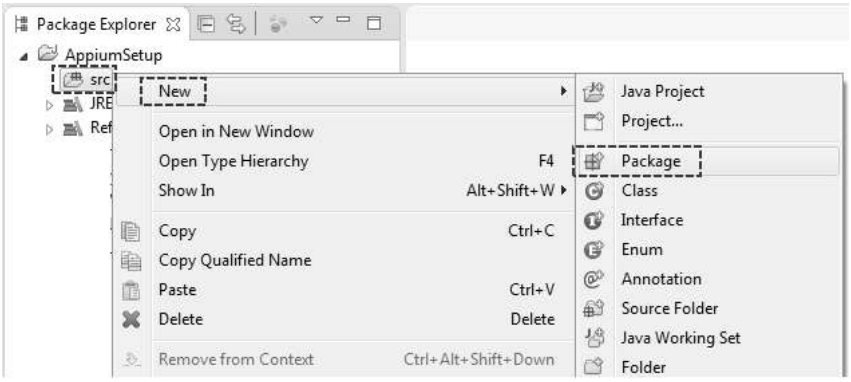
Now comes the important part where you write the Appium test script. Do this by following the steps given below –

1. Open the Appium project that we had created in this article – Create new project in Eclipse. It should look something like this –

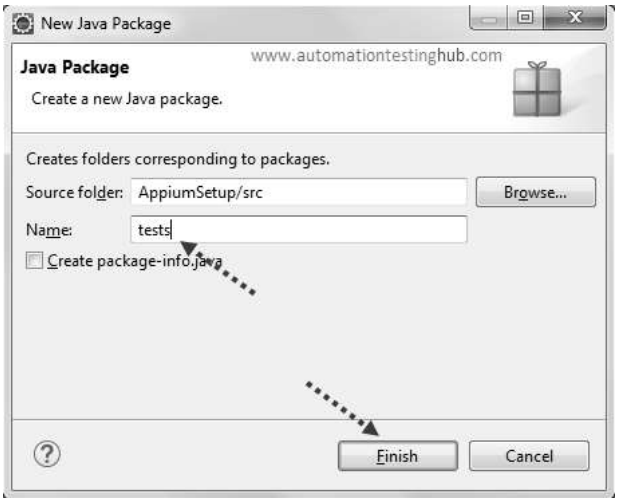


We will first create a new package in this project. Then we will then create a Java class inside the package, and finally we will write the Appium test script in the Java class. Let's see how this is done.

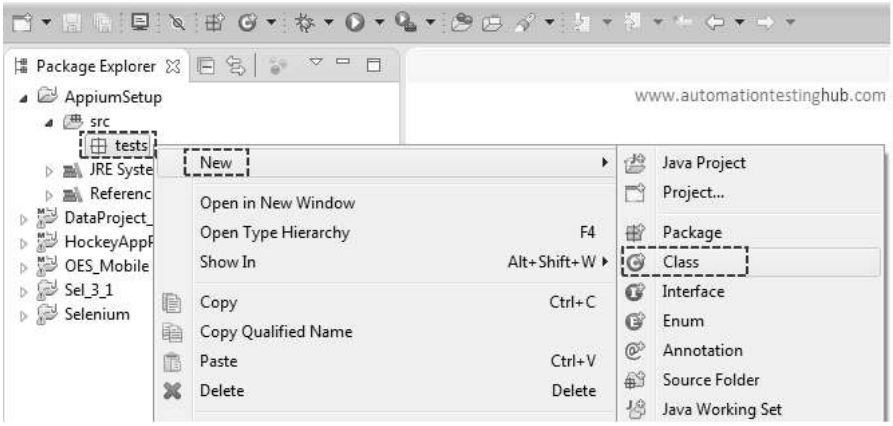
2. In the Appium project in Eclipse, right click on **src** folder. Then select **New > Package**



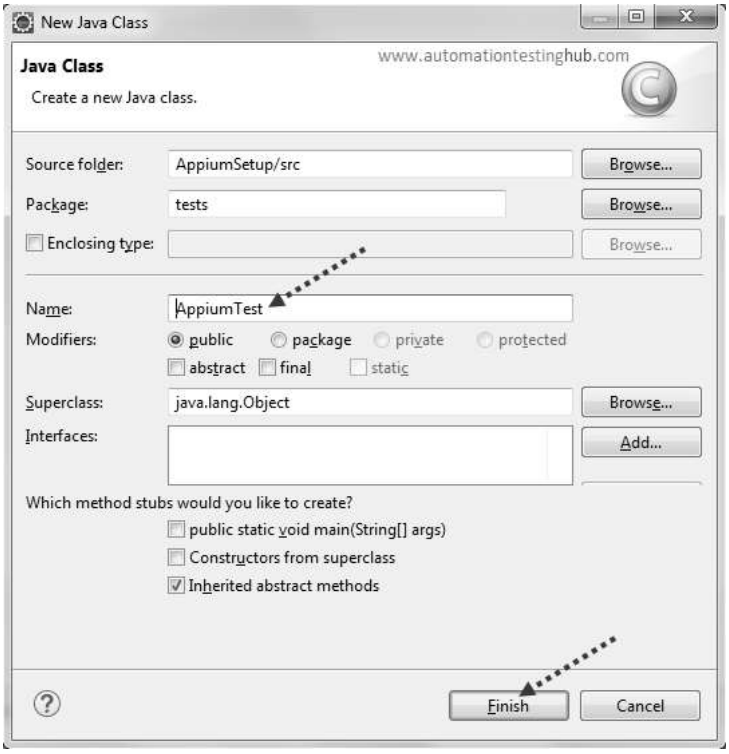
3. In the popup window, enter package name as **tests** and then click on **Finish** button



4. You can see that a new package called tests is created under src folder. Right click on this package and select **New > Class** option



5. In the popup window, enter the class name as **AppiumTest** and then click on **Finish** button



6. The new class would be created as shown below. This is the place where you will add your code.

7. In this article, we will just provide you with the complete code that you would need to launch Play Store app. Don't worry if you are n able to understand some of the details in the code. We will work on a separate article, where we will explain the code in detail.

8. For now, delete all the content in **AppiumTest.java** class and replace it with the code given below. **Also, please make sure that yo replace the device id (in line number 18) given in this code with the device id of your phone.**

```
package tests;

import java.net.MalformedURLException;
import java.net.URL;

import org.openqa.selenium.remote.DesiredCapabilities;
import io.appium.java_client.AppiumDriver;
import io.appium.java_client.MobileElement;
import io.appium.java_client.android.AndroidDriver;

public class AppiumTest {

        public static void main(String[] args) {

                //Set the Desired Capabilities
                DesiredCapabilities caps = new DesiredCapabilities();
                caps.setCapability("deviceName", "My Phone");
                caps.setCapability("udid", "ENUL6303030010"); //Give Device ID of your mobile phone
                caps.setCapability("platformName", "Android");
                caps.setCapability("platformVersion", "6.0");
```

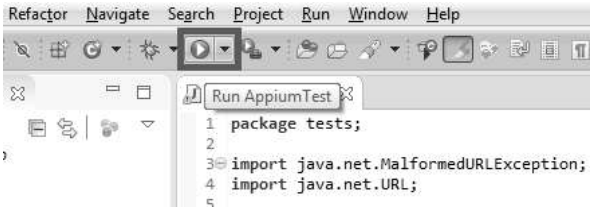
```
                caps.setCapability("appPackage", "com.android.vending");
                caps.setCapability("appActivity", "com.google.android.finsky.activities.MainActivity");
                caps.setCapability("noReset", "true");

                //Instantiate Appium Driver
                try {
                                AppiumDriver driver = new AndroidDriver(new URL("http://0.0.0.0:4723/wd/hub"

                } catch (MalformedURLException e) {
                        System.out.println(e.getMessage());
                }
        }

}
```

9. Your code in Eclipse should look like this. Press **Ctrl + S** keys to save this Appium test script.

Note: When you check the code, you would observe that all the values (such as udid, appPackage, appActivity etc) are the ones that y had fetched in the previous sections of this article.

Run Appium Test Script

You have written your Appium test script. Its now time to run it. Please make sure that your mobile device is connected to your compute USB and its unlocked. To run the script, click on the run icon from the toolbar.



Your script would start running and you would see that Play Store app would get launched on your mobile device. This entire process r take 10-15 seconds because Appium has to connect to your mobile device first. A good approach would be to run your script and then monitor the Appium Desktop screen. You would notice that Appium Desktop screen should start showing some logs. This way you will that your Appium test script is running.