



Appium "Studio"

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What is it ?!

- Appium

- An **open source test automation framework** for use with native, hybrid and mobile web apps.
- It's GUI Testing tool.

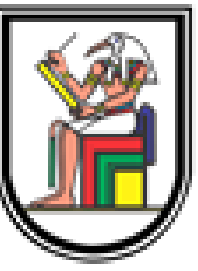
- Appium Studio

- An IDE created by Experitest, designed for mobile test automation development and execution, It's a **Wrapper for Appium**.



This talk

- How Tool **Works** ?
- Tool **Components**
- Test **Reports**
- **Running** Test Script



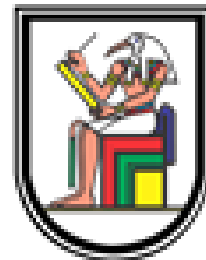
How Tool Works

Record → Edit → Execute → Report



Tool Components

- Test Area
 - Test Tool
 - Command Section
 - Property/Value section
- Log/Code Area
 - Code Section
 - Log Section
- Devices Area
- Application Area



Test Area

- Test Tool



1. **Record:** start recording test.
2. **New Test:** add new Test.
3. **Previous Tests:** see your last 7 tests.
4. **Save:** save current Test.
5. **Undo.**
6. **Redo.**
7. **Continue:** start test from current state of the program.
8. **Start from the beginning:** run the test from the beginning of the program.
9. **Stop:** stop test.
10. **Test Report.**

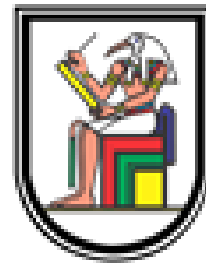


Test Area

- Command Section

1. Find element in the view (textview) with a hint of "username and write in that "r".
2. Click enter on the app.
3. Send "1" in the next field.

#	<input checked="" type="checkbox"/>	Command
1	<input checked="" type="checkbox"/>	FindElementBy xpath=//*[@hint='Username'] and Send r
2	<input checked="" type="checkbox"/>	Device Action: Enter
3	<input checked="" type="checkbox"/>	Send 1



Test Area

- Property/Value Section
 - Each command has a property or more and a value to it.
 - xpath => this is a unique identifier of a view that we want to get inside the current layout.

Property	Value
Element	xpath=//*[@text='Movita']
Timeout	30000
WaitForElementPresence(Element, Timeout) Wait for an element to appear in a specified zone <ul style="list-style-type: none">- Element - Select Element to Wait For- Timeout - Waiting Timeout in MiliSec	



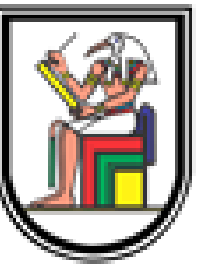
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Log/Code Area

- The place where you could see the **commands as a code** in different programming languages and you also see the **running process log of a test script.**



Log/Code Area

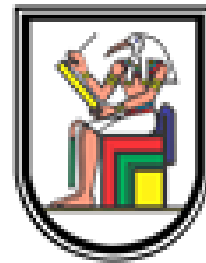
- Code Section

Log Code

Java (JUnit 5 + Appium Client 4)

```
dc.setCapability(MobileCapabilityType.OTHER, ...);
driver = new AndroidDriver<>(new URL("http://localhost:4723/wd/hub"), dc);
driver.setLogLevel(Level.INFO);
}

@Test
public void test_075_actoraddtocategory() {
    driver.findElement(By.xpath("//*[@hint='Username']")).sendKeys("r");
    driver.executeScript("seetest:client.deviceAction(\"Enter\")");
    driver.getKeyboard().sendKeys("l");
    driver.executeScript("seetest:client.deviceAction(\"Enter\")");
    driver.findElement(By.xpath("//*[@text='sign in']")).click();
    new WebDriverWait(driver, 30).until(ExpectedConditions.presenceOfElementLocated(By.xpath("//*[@text='Movita']")));
    driver.swipe(15, 88, 1331, 135, 1981);
    new WebDriverWait(driver, 30).until(ExpectedConditions.presenceOfElementLocated(By.xpath("//*[@text='Search']")));
}
```



Log/Code Area

- Log Section
 - You can see here all the process of the test script.

```
Log  Code
[Icon]
12:12:22 AM Click 'xpath=//*[@text='Lists']' in zone NATIVE, index: 0, click count: 1
12:12:25 AM Sleep for: 2000 milliseconds
12:12:25 AM Click 'xpath=//*[@class='android.widget.ImageView' and .parent:*[(./preceding-sibling::* | ./following-sibling::*)][@text='Add']]' in zone NATIVE, index: 0, click count: 1
12:12:27 AM Send text 'hi list'
12:12:28 AM Click 'xpath=//*[@id='button1']' in zone NATIVE, index: 0, click count: 1
12:12:31 AM Sleep for: 2000 milliseconds
12:12:32 AM Click 'xpath=//*[@id='header' and @text='hi list']' in zone NATIVE, index: 0, click count: 1
12:12:33 AM Click 'xpath=//*[@class='android.widget.ImageView' and .parent:*[(./preceding-sibling::* | ./following-sibling::*)][@text='Edit']]' in zone NATIVE, index: 0, click count: 1
12:12:36 AM Send text 'edited hi list'
12:12:37 AM Click 'xpath=//*[@id='button1']' in zone NATIVE, index: 0, click count: 1
ERROR: ----> 12:12:49 AM Click 'xpath=//*[@id='header' and @text='edited hi list']' in zone NATIVE, index: 0, click count: 1
ERROR: ----> 12:12:49 AM Element was not identified: 'xpath=//*[@id='header' and @text='edited hi list']' at zone NATIVE
12:12:52 AM Sleep for: 2000 milliseconds
12:12:52 AM Click 'xpath=//*[@class='android.widget.ImageView' and .parent:*[(./preceding-sibling::* | ./following-sibling::*)][@text='Edit']]' in zone NATIVE, index: 0, click count: 1
12:12:54 AM Send text 'hi list'
12:12:55 AM Click 'xpath=//*[@id='button1']' in zone NATIVE, index: 0, click count: 1
12:12:58 AM Sleep for: 2000 milliseconds
```










Tool Components

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Devices Area

Device				
				
1	2	3	4	5
Name	Type	Ver.	Status	
Lenovo K33a48			Offline	
Lenovo TAB S8-50LC			Offline	



Devices Area

1. Open device: reflect the screen of your device.
2. Add new Device: add new mobile to the device area.
3. Delete a Device: remove a device from the device area.
4. Edit a device setting: change the resolution and quality of the streaming.
5. Get a mobile from the cloud: this feature has been stopped.




Tool Components


- Test Area
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 - Log Section
- Devices Area
- Application Area


Application Area


1. Install the app on Appium.
2. Launch the app on the device.
3. Close the App.
4. Clear the Data of the app on the device.
5. Uninstall the App.
6. Delete the App.
7. Import the app to Appium.
8. Info about the App.
9. Apps installed on Appium.
10. Install: install the app before the test
11. No Reset: don't clear application data before the test
12. Instrument: instrument the application


Application


**1**


**2**


**3**






**4**

**5**

**6**

**7**

**8**

Type	Application	Version
	No Application	
	Chrome	
	com.example.khaledsabry.enterta...	1.0
	com.experitest.ExperiBank	1.0
	com.experitest.simplebrowser	1.0

9

Application Capabilities

☐ Install

Install the app before the test

10

☐ No Reset

Don't clear application data before the test

11

☐ Instrument

Instrument the application

12

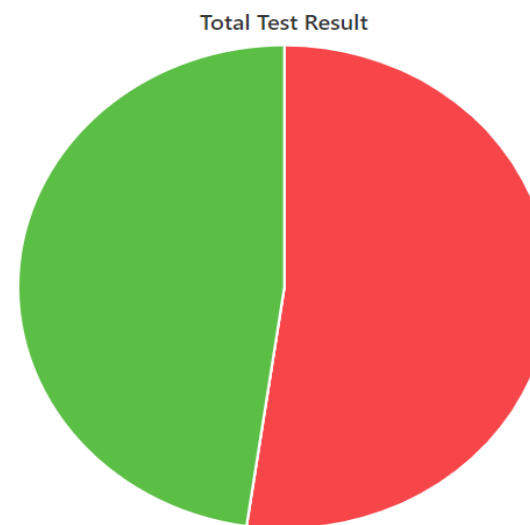


This talk

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- Test Reports
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• Tests Report Summary



Test Reports

#	Name	Status	Run Started	Duration	Failed Step	Error Message
1	061-tvseasondownload	✔ Passed	Fri, 13 Dec 2019 00:28:12	29.608 Seconds		



Test Reports

- Test Execution Summary

061-tvseasondownload

Test Execution Summary

1 Start test 061-tvseasondownload

2 Set device to: adb:Lenovo TAB S8-50LC

3 Launch native activity / URL com.exempl...

4 Set property android.native.nonInstrume...

5 Send text r to element NATIVE:xpath=//*...

6 Device Action: Enter

7 Send text '1'

8 Device Action: Enter

9 Click 'xpath=//*[@text='sign in']' in zone...

10 Wait for 'xpath=//*[@text='Movita']' in ...

11 Drag from: X1: 15, Y1: 88, to X2: 1331, Y...

12 Wait for 'xpath=//*[@text='Search']' in ...

13 Click 'xpath=//*[@text='Search']' in zon...

14 Wait for 'xpath=//*[@text='Search']' in ...

Test Execution Summary

✓ Passed

Execution Information

Time Zone	Eastern European Time
Run Started	Fri, 13 Dec 2019 00:28:12
Total Time	00:00:29.608
Project Path	C:\Users\KhALeD SaBrY\workspace\appium-project
User	KhALeD SaBrY
Machine Name	KhALeD

Device Information (Lenovo TAB S8-50LC)

Name	Lenovo TAB S8-50LC
OS	Android
Model	Lenovo TAB S8-50LC
Manufacturer	LENOVO
Version	5.0.1
Screen Size	
S/N	BaytrailA010AD37



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Running Test Script

Applum Studio™ 12.10.6022 - applum-project

File Device Test Tools Help

Device: Test082-editedlistwithupdate

Name	Type	Ver.	Status
Lenovo TAB S8-50LC		5.0.1	Open
Lenovo K33a48			Offline

Application

Type	Application	Version
	No Application	
	Chrome	
	com.example.khaleedsabry.enterta...	1.0
	com.experitest.ExperBank	1.0
	com.experitest.simplebrowser	1.0

Application Capabilities

☐ Install
Install the app before the test

☐ No Reset
Don't clear application data before the test

☒ Instrument
Instrument the application

FindElement and Click(Element)

#	Command
17	Send edited hi list
18	FindElement By xpath="//[@id='button1'] and Click
19	FindElement By xpath="//[@text='hi list has been changed to edited hi list'] and Click
20	Sleep for 2000 ms
21	Swipe from 15, 88 to 1331, 135
22	Wait for Element Presence
23	FindElement By xpath="//[@text='Lists'] and Click
24	Wait for Element Presence
25	FindElement By xpath="//[@id='header' and @text='edited hi list'] and Click
26	FindElement By xpath="//[@class='android.widget.ImageView' and /parent:*/]
27	Send hi list
28	FindElement By xpath="//[@id='button1'] and Click
29	Sleep for 2000 ms
30	Swipe from 15, 88 to 1331, 135
31	Wait for Element Presence
32	FindElement By xpath="//[@text='Lists'] and Click
33	Wait for Element Presence
34	FindElement By xpath="//[@id='header' and @text='hi list'] and Click

Log Code

12:01:17 AM Wait for 'xpath="//[@id='header' and @text='edited hi list'] in zone NATI
Found: true
12:01:18 AM Click 'xpath="//[@id='header' and @text='edited hi list'] in zone NATI
12:01:19 AM Click 'xpath="//[@class='android.widget.ImageView' and /parent:*/]
Send text 'hi list'
12:01:21 AM Click 'xpath="//[@id='button1'] in zone NATIVE, index: 0, click count: 1
12:01:22 AM Sleep for: 2000 milliseconds
12:01:25 AM Drag from: X1: 15, Y1: 88, to X2: 1331, Y2: 135
12:01:26 AM Wait for 'xpath="//[@text='Box Office'] in zone NATIVE, timeout: 30000
Found: true
12:01:27 AM Click 'xpath="//[@text='Lists'] in zone NATIVE, index: 0, click count: 1
12:01:28 AM Wait for 'xpath="//[@id='header' and @text='hi list'] in zone NATIVE, tim
Found: true
12:01:29 AM Click 'xpath="//[@id='header' and @text='hi list'] in zone NATIVE, index:
12:02:02 AM Set device to: adb:Lenovo TAB S8-50LC
12:02:02 AM Device Information
Name: Lenovo TAB S8-50LC
S/N: BaytrailA010AD37
OS: Android
Manufacture: LENOVO
Model: Lenovo TAB S8-50LC
Version: 5.0.1
Screen size: 1920x1200
Connected to: 127.0.0.1:5037

adb:Lenovo TAB S8-50LC

12:02 AM
12:02
Tue, December 17

ES File Explorer
Translate
Phone

Property Value

Launch native activity com.example.khaleedsabry.entertainment/Activities.MainActivity



Any Questions ?