# TRAINING GUIDE FOR USING UIAUTOMATOR/WEDITOR IN AUTOMATION

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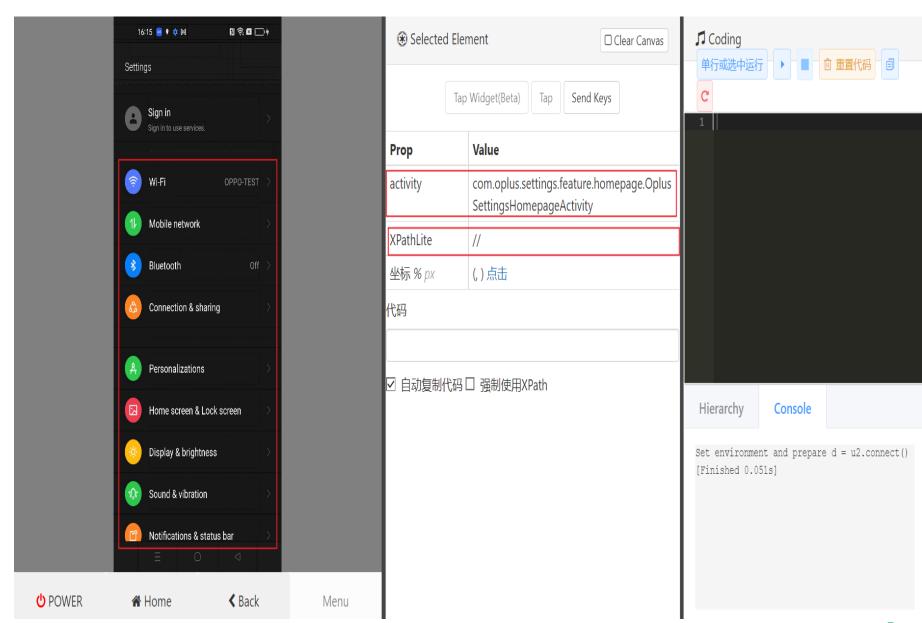


- 1) What is UIAutomator?
- 2)How we are using UIAutomator for writing scripts.
- 3) What all functions can be used in UIAutomator?
- 4)How we are importing modules and the functions through olib(By example through script).

### What is UIAutomator?

oppo

- UI Automator is a UI testing framework suitable for cross-app functional UI testing across system and installed apps.
- UI Automator API lets us interact with visible elements in device and helps in opening setting menu, launch an app atc.



## **UIAutomator elements**



The following are the UIAutomator elements:

1) activity

2) XPathLite

3) className

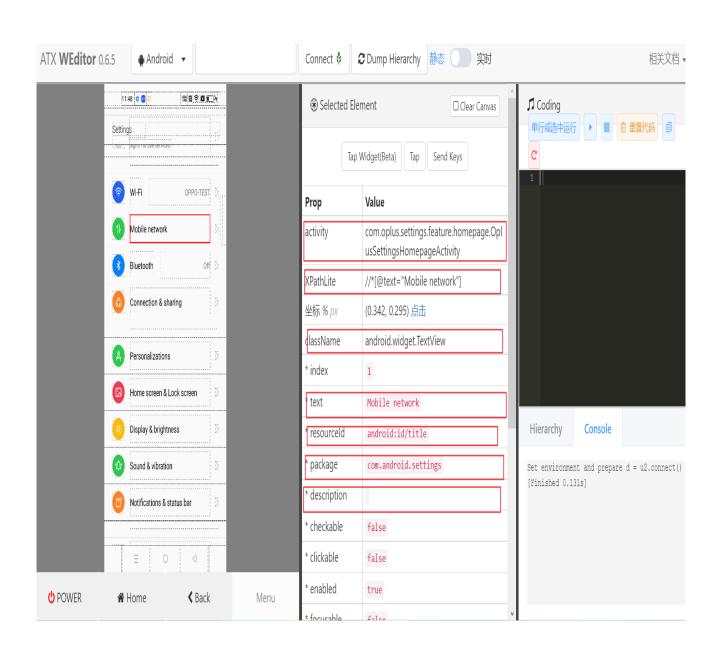
4) text

5) resourceld

6) package

7) description

Using the above elements we can use olib libraries for writing scripts.



# Applications of elements using olib in scripts



- 1)Activity element can be used to start any activity of our device, for example,
- common.app\_initialization(dut, "com.coloros.relax"), we can initialize app
- -common.start app activity(dut, "com.coloros.ui.MainActivity", action = None), we can enter into orelax app

 ${\color{red}\mathsf{app\_initialization}}(phone:\ olib.device.grpc\_base.GrpcDevice,\ pkgname:\ str) \rightarrow \mathsf{bool} \qquad \texttt{[source]}$ 

Initialize application (clear application data) 初始化应用 (清除应用数据)

#### ■ Note

• 支持OPPO Phone and watch

parameters:
 phone – PhoneBase instance, the phone to operate

• pkgname - package name to initialize 要初始化的应用包名

Returns: return True if success else False 成功返回True, 失败返回False

start\_app\_activity(phone, pkgname, activityname, action=None) [source]

Open specified app activity 打开指定应用Activity

• phone – PhoneBase instance, the phone to operate

• pkgname - app package name, for example "com.oppo.music"

activityname – app package name, for example "com.oppo.music.MainListActivity"

• action – optional, for example "android.settings.WIFI\_SETTINGS" 此参数可以不传

Returns: return True if success, else False 成功返回True, 失败返回False

# Applications of elements using olib in scripts



- 2)Xpath-we can use xpath to reach to defined location or path Xpath can be declared in two ways:
- 1)Relative xpath- used with // ,it doesnot identify element from root node Eg- (//\*[@attribute='value'])
- 2)Absolute xpath- used with /, it identify element from beginning to root node Eg-/html/body/div[1]/div/div[1]/a. Which xpath is generally used?

```
click_with_xpath(phone: olib.phone.phone_base.PhoneBase, xpath, timeout=2) [source]
```

check\_exists\_xpath(phone: olib.phone.phone\_base.PhoneBase, xpath, timeout=2) [source]

# Application of elements using olib:



We can pick up elements using classname, text, resource id and description.

click with resource id exists(phone: olib.phone.phone\_base.PhoneBase, resource id)

click\_with\_resource\_id\_until\_gone(phone: olib.phone.phone\_base.PhoneBase, resource\_id)

```
input_text_by_classname_and_index(phone, classname, inputtext, index=0)
                                                                             [source]
       Exact Input text to the specified widget by ClassName 精确输入文本到指定类名的控件
                         • phone - PhoneBase instance, the phone to operate
         Parameters:
                         • classname – 类名
                         • index - index of the same text, begin from 0 相同文本内容的控件索引,从0开始
                         • inputtext - 输入的文本
         Returns:
                        True if success else False
Click with text:
    click_with_text(phone: olib.phone.phone_base.PhoneBase, text, timeout=2, waittime=0)
                                                                                                 [source]
Click with resource id:
   click_with_resource_id(phone: olib.phone.phone_base.PhoneBase, resource_id, timeout=2)
                                                                                    [source]
   click_with_resource_id_instance(phone: olib.phone.phone_base.PhoneBase, resource_id, instance, timeout=2)
      [source]
```

[source]

[source]

# Thank you

Any questions?