

@Author: Praveen Kumar Jaiswal

@Facebook: <https://www.facebook.com/praveenjaiswalkumar>

@Gmail: praveenjaiswal.cs@gmail.com

APPIUM Notes

Q) What is Desired Capability ?

A) Desired capabilities: is a class from selenium.

- Desired capabilities is a class which take the information in JSON structure and send the information to Appium server.

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Q) How to add .apk to project so that no need to change the build path every time.

A) We will create a folder and store our app in that and call it using file.

Code is:

```
File f = new File("Folder name where you have stored your app let say App build");
```

```
File fs = new File(fs,"location of the apk");
```

Now how to set in desired capability.

```
Caps.setCapability(MobileCapabilityType.App, fs.getAbsolutePath());
```

=====

Q) Connection to appium server.

A) `AndroidDriver<AndroidElement> driver = new`

```
AndroidDriver<AndroidElement>(connectionToServer,capabilities);
```

Where

`connectionToServer : (new URL("http://0.0.0.0/wd/hub"), caps)`

For URL import java.net only.

&

Capabilities: caps

Wd stands for WebDriver & hub is used to transfer data.

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Q) What is connection and session in appium.

Session takes 60 sec to close

Close the connection and start again.

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Q) Ways to find elements

A) driver.findElementByXPath("//android.widget.TextView[@text='Preference']");
driver.findElementByXPath("//android.widget.TextView[@text='3. Preference dependencies']");

driver.findElementById("android:id/checkbox").click();

driver.findElementByXPath("//android.widget.RelativeLayout[2]").click();

Using get():

driver.findElementsByClassName("android.widget.Button").get(1).click();

Using UIAutomator:

//driver.findElementByAndroidUIAutomator("attribute(\"value\")");

driver.findElementByAndroidUIAutomator("text(\"Views\")").click();

Using properties e.g. clickable

int a = driver.findElementsByAndroidUIAutomator("new UiSelector().clickable(true)").size();

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Q) Scroll in Appium

A)

driver.findElementByAndroidUIAutomator("new UiScrollable(new
UiSelector()).scrollIntoView(text(\"Radio Group\");");

("new UiScrollable(new UiSelector()) :- This is Android methods not Appium

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Q) How to get current activity or the current page details

A) getActivity() method is used

system.out.println(driver.getActivity());

Output in console will be : .ApiDemos

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Q) How to get What type of app you are working on?

A) getContext() method is user.
system.out.println(driver.getContext());

Output in console will be : "NATIVE_APP"

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Q) How to get current orientation details of mobile?

A) driver.getOrientation();
system.out.println(driver.getOrientation());

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Q) Check whether mobile is locked or not?

A) driver.islocked();

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Q) How to hide keyboard?

A) driver.hideKeyboard();

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Q) How to click on home button or back button of mobile device?

A) driver.pressKeyCode(AndroidKeyCode.Action_Home)
Action_Back;
etc.

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Q) Perform click on Toggle button

A)

Point point=
driver.findElementById("com.raaga.android:id/toggle_notifyrecommend").getLocation();
TouchAction t= new TouchAction(driver);
//toggle on
t.tap(point.x+20, point.y+30).perform();
//toggle off
t.tap(point.x+100, point.y+30).perform();

Q) How to execute the scripts without changing the device type i.e. emulator or real device.

A) Do below changes in TestBase.java File.

TestBase.java

Public static AndroidDriver<AndroidElement> capabilities(String device) throw malformed exception

Public void setup()

```
{
    AndroidDriver<AndroidElement> driver;
    DesiredCapabilities caps = new DesiredCapabilities();
    if(device.equals("real"))
    {
        caps.setCapability(MobileCapabilityType.DEVICE_NAME,"Real
        Device");
    }
    else if(device.equals("emulator"))
    {
        caps.setCapability(MobileCapabilityType.DEVICE_NAME,"emalutor
        Device");
    }
}
```

And add below code in your class where you are calling your desired capabilities.

AndroidDriver<AndroidElement> driver = setup("Device type");

Under device type mention device you want to use i.e. emulator or real.

setup("emulator");

setup("real");

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Q) How to scroll down in Real device.

A)

Dimension size = this.driver.manage() .window().getSize ();

int startX = size.getWidth () / 2;

int startY = size.getHeight () / 2;

int endX = 0;

```
int endY = (int) (startY * -1 * 0.5);  
driver.swipe(startX, startY,endX,endY,2000);  
driver.findElementByAndroidUiAutomator("new UiScrollable().scrollIntoView(\"WebViews\")");
```

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