

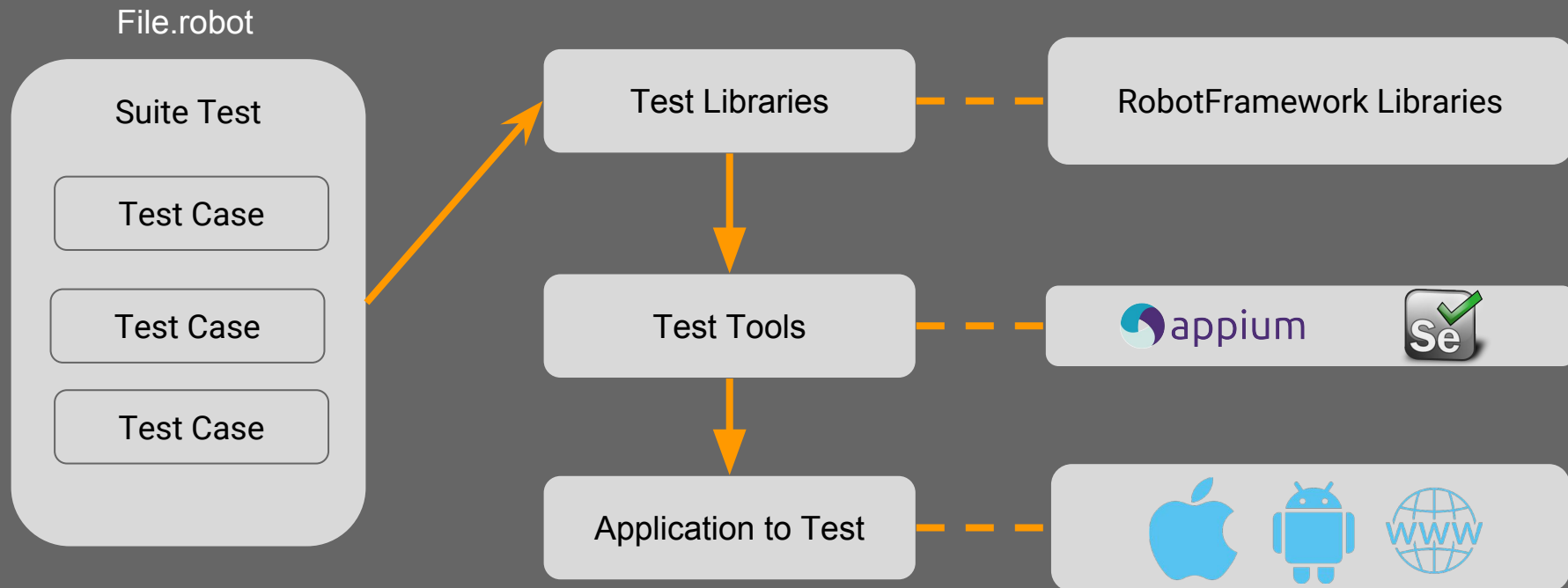
iOS Automation Test with Robot Framework and Appium

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What is Robot Framework?

- An end to end test framework written in python.
- Use appium, and selenium as their engine.

Robot Framework Architecture



Settings.robot

Pre-requisite



Installing appium

```
> npm install -g appium
```

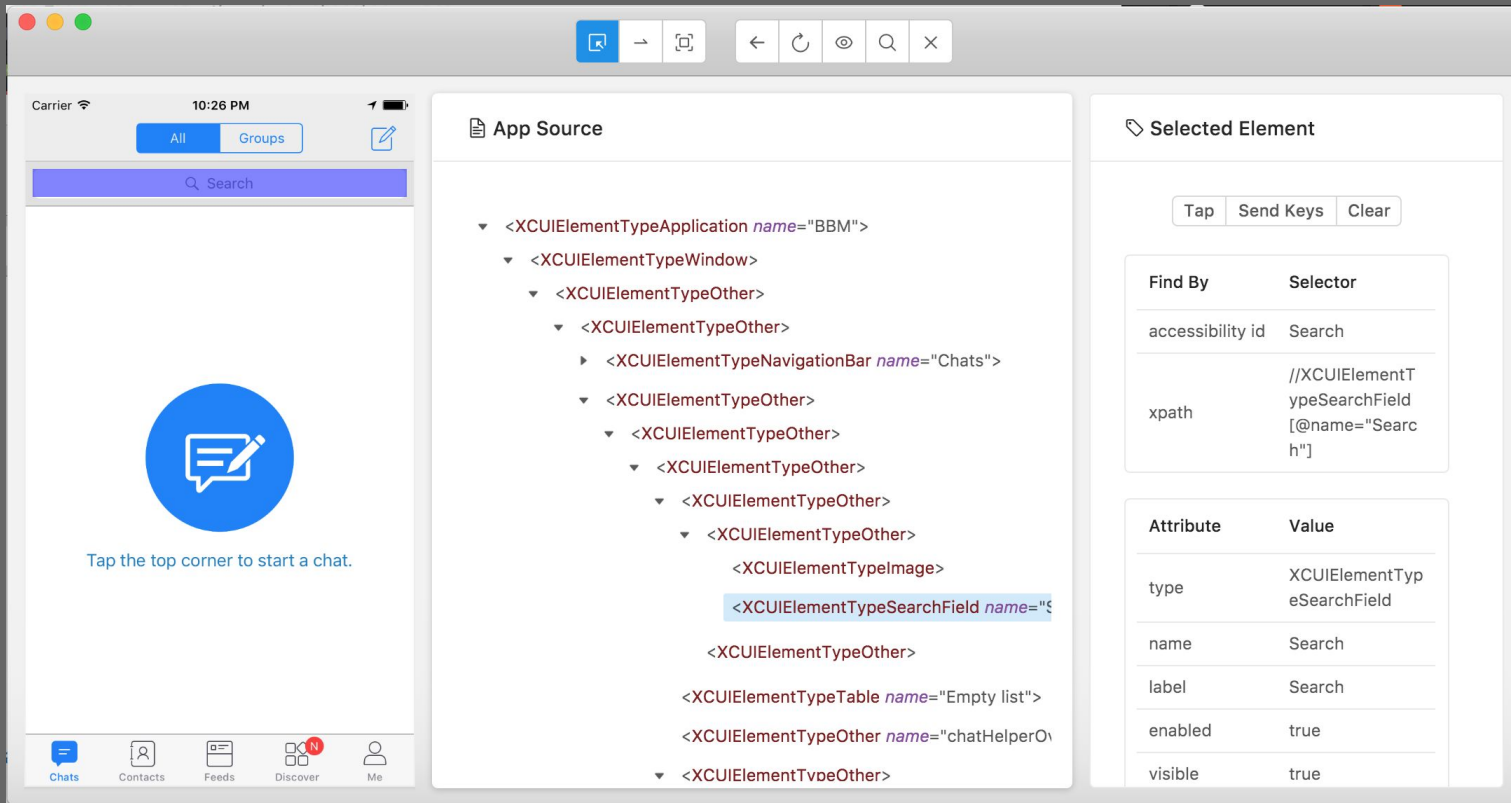
```
> git clone https://github.com/KMK-ONLINE/appium.git  
> cd appium && ./setup
```

Installing Robot Framework

```
> pip install robotframework  
> pip install robotframework-appiumlibrary  
> pip install robotframework-debuglibrary
```

Robot Keyword Structure

Keyword	Arguments
Wait Until Page Contains Element	*Locator, timeout, error
Input Text	*Locator, *text
Sleep	*Time, reason



Test.robot

*** Setting ***

Suite Setup	Spawn Appium Server
Suite Teardown	Close Appium Server
Test Setup	Open App
Test Teardown	Close Application
Resource	../resource.txt

*** Variables ***

\${USERNAME}	lebahganteng
\${PASSWORD}	peinakatsuki

*** Test Case ***

As a user, I want to login using my account

[Documentation]	Given user want to login using my account
...	When user login with a right credecial
...	Then user should has logged in
[Tags]	login

Open Burger Menu By Click

Click Burger Menu Item

Input Username

Input Pass

Submit Login

Verify Login

Login

\${USERNAME}

\${PASSWORD}

As a user, I want to edit my profile

[Documentation]	Given user on edit profile
...	When user edit their profile
...	And Save it
...	Then user profile should be updated
[Tags]	profile edit
\${Name}	FakerLibrary.Name Male
\${Description}	FakerLibrary.Paragraph nb_sentences=1
\${Phone}	FakerLibrary.Phone Number
\${Phone}	Remove String \${Phone} + - . x ()

Open Burger Menu By Click

Click Burger Menu Item

Input Username

Input Pass

Submit Login

Login

\${USERNAME}

\${PASSWORD}

Open Burger Menu By Click

Click Burger Menu Item

Edit Fullname

Edit Short Bio

Edit Phone Number

Hide Keyboard

Save Change User Profile

\${USERNAME}

\${Name}

\${Description}

\${Phone}

Verify Edit Profile

Test.robot

*** Keywords ***

Input Username

[Arguments]

Wait Until Page Contains Element

Tap

Input Text

Set Suite Variable

`${user_username}`

id=login_username

id=login_username

id=login_username

`${user_username}`

timeout=5

error=Can't Input Username or login Page Doesn't Opened

`${user_username}`

Input Pass

[Arguments]

Hide Keyboard

Wait Until Page Contains Element

Tap

Input Text

`${user_pass}`

id=login_password

id=login_password

id=login_password

timeout=5

error=Can't Input Password or login Page Doesn't Opened

`${user_pass}`

Extending the Library

SetupSimulator.py

```
1 import os,sys
2 cwd = os.getcwd()
3 sys.path.append(cwd+"/ios/scripts")
4 from fbsimctl import *
5 from robot.api.deco import keyword
6 from datetime import datetime
7 import re
8
9
10 class SetupSimulator():
11     def __init__(self):
12         self.fbsimctl = fbsimctl()
13
14     def delete_bbm_app(self, uidid):
15         if "None"!=self.Get_Bundle_Id(uidid):
16             for bundleID in self.fbsimctl.getBundleID(uidid, 'bbm'):
17                 self.fbsimctl.terminateApp(uidid, bundleID)
18                 self.fbsimctl.deleteApp(uidid, bundleID)
19
20     def Get_Bundle_Id(self, uidid):
21         return self.fbsimctl.getBundleID(uidid, 'bbm')[0]
22
23     def Open_Simulator(self, *uidids):
24         for uidid in uidids:
25             if not self.fbsimctl.isBooted(uidid):
26                 self.fbsimctl.boot(uidid)
```

*** Settings ***

Library	AppiumLibrary	15
Library	Collections	
Library	String	
Library	Process	
Library	DateTime	
Library	FakerLibrary	
Library	DebugLibrary	
Library	HttpLibrary.HTTP	
Library	scripts/DateConverter.py	
Library	scripts/SetupSimulator.py	

Report

Destructive Test Log

REPORT

Generated
20170822 13:08:40 GMT +07:00
7 hours ago

Test Statistics

Total Statistics	Total	Pass	Fail	Elapsed	Pass / Fail
Critical Tests	6	5	1	00:05:05	
All Tests	6	5	1	00:05:05	

Statistics by Tag	Total	Pass	Fail	Elapsed	Pass / Fail
comment	1	1	0	00:01:00	
edit	2	2	0	00:02:40	
facebook	1	1	0	00:00:41	
google	1	0	1	00:00:15	
login	4	3	1	00:03:04	
password	1	1	0	00:01:39	
profile	1	1	0	00:01:01	
thirdparty	2	1	1	00:00:56	

Statistics by Suite	Total	Pass	Fail	Elapsed	Pass / Fail
Destructive	6	5	1	00:07:26	
Destructive.PasswordManagement	1	1	0	00:02:14	
Destructive.ProfileManagement	1	1	0	00:01:36	
Destructive.Login	3	2	1	00:02:00	
Destructive.Comment	1	1	0	00:01:36	

Report

Test Execution Log		
- SUITE Destructive		
Full Name: Destructive		00:07:26.001
Source: /var/jenkins/workspace/klik_dokter-android-robot-destructive/kdokter-android/destructive		
Start / End / Elapsed: 20170522 12:01:14.648 / 20170522 12:08:40.649 / 00:07:26.001		
Status: 6 critical test, 5 passed, 1 failed 6 test total, 5 passed, 1 failed		
+ SUITE PasswordManagement		
		00:02:14.140
+ SUITE ProfileManagement		
		00:01:36.305
- SUITE Login		
Full Name: Destructive.Login		00:02:00.008
Source: /var/jenkins/workspace/klik_dokter-android-robot-destructive/kdokter-android/destructive/Login.txt		
Start / End / Elapsed: 20170522 12:05:05.108 / 20170522 12:07:05.116 / 00:02:00.008		
Status: 3 critical test, 2 passed, 1 failed 3 test total, 2 passed, 1 failed		
+ SETUP resource.Spawn Applum Server		00:00:05.003
+ TEARDOWN resource.Close Applum Server		00:00:30.151
+ TEST As a user, I want to login by using facebook account		00:00:40.868
+ TEST As a user, I want to login using my account		00:00:29.334
- TEST As a user, I want to login using my google account		00:00:14.645
Full Name: Destructive.TestLogin.As a user, I want to login using my google account		
Documentation: Given user want to login using my google account When user login with a right crediectal Then user should has logged in by google		
Tags: google, login, thirdparty		
Start / End / Elapsed: 20170522 12:06:20.319 / 20170522 12:06:34.964 / 00:00:14.645		
Status: FAIL (critical)		
Message: ValueError: Element locator 'xpath=([//android.widget.ListView//android.widget.LinearLayout])[1]' did not match any elements.		
+ SETUP resource.Open App		00:00:08.436
+ KEYWORD resource.Open Burger Menu By Click		00:00:01.188
+ KEYWORD resource.Click Burger Menu Item Login		00:00:01.010
+ KEYWORD resource.Tap Google Sign In Button		00:00:00.473
- KEYWORD resource.Tap Google Account User		00:00:02.266
Start / End / Elapsed: 20170522 12:06:31.426 / 20170522 12:06:33.692 / 00:00:02.266		
+ KEYWORD ApplumLibrary.Wait Until Page Contains Element xpath=([//android.widget.LinearLayout, timeout=5, error=There's No User Google In Test Phone		00:00:02.164
- KEYWORD ApplumLibrary.Tap xpath=([//android.widget.ListView//android.widget.LinearLayout])[1]		00:00:00.101
Documentation: Tap on element		
Start / End / Elapsed: 20170522 12:06:33.591 / 20170522 12:06:33.692 / 00:00:00.101		
+ KEYWORD ApplumLibrary.Log Source		00:00:00.061
12106133.692 FAIL ValueError: Element locator 'xpath=([//android.widget.ListView//android.widget.LinearLayout])[1]' did not match any elements.		
+ TEARDOWN ApplumLibrary.Close Application		00:00:01.270
+ SUITE Comment		
		00:01:35.530

DEMO

Thank you!