

1. Introduction

This is documentation how to make simple automation test case for socialseeds using Katalon Studio, following several test cases as follows :

No	Type	Test Case Name	Description	Precondition	Procedure	Expected Result
1	Positive	User access home	User can access homepage	User has just installed the Socialseeds app for the first time	1. Open socialseeds app 2. Click Get Started	Redirect to home page
2	Negative	Sign in as a volunteer but with an unregistered account	User Signs in as a volunteer but with an unregistered account	User has just installed the Socialseeds app for the first time	1. Open socialseeds app 2. Click Get Started 3. Click Navbar item "Profile" 4. Click Button Sign In 5. Click button "Volunteer" 6. Redirect to volunteer login form 7. Fill in the Email textfield with value "yayangtaopik@gmail.com" 8. Fill in the Password textfield with value "socialseeds123" 9. Click Sign In Button	1. Showing popup Login Failure, Invalid Login
3	Negative	Forgot password as a volunteer but with an unregistered account	User filling Forgot password form field as a volunteer but with an unregistered account	User has just installed the Socialseeds app for the first time	1. Open socialseeds app 2. Click Get Started 3. Click Navbar item "Profile" 4. Click Button Sign In 5. Click button "Volunteer" 6. Redirect to Volunteer login form 7. Click Link "Forgot Password ?" 8. Showing up	1. Showing popup Oopss.. Failed to send OTP

					<p>popup form forgot password</p> <p>9. Fill in the Email Address textfield by value "yayangtaopik@gmail.com"</p> <p>10. Click button Submit</p>	
4	Negative	Sign in as a institution but with an unregistered account	User Sign in as a institution but with an unregistered account	User has just installed the Socialseeds app for the first time	<p>1. Open socialseeds app</p> <p>2. Click Get Started</p> <p>3. Click Navbar item "Profile"</p> <p>4. Click Button Sign In</p> <p>5. Click button "Institution"</p> <p>6. Redirect to Institution login form</p> <p>7. Fill in the Email textfield with value "yayangtaopik@gmail.com"</p> <p>8. Fill in the Password textfield with value "socialseeds123"</p> <p>9. Click Button Sign In</p>	<p>1. Showing popup Login Failure, Invalid Login</p>
5	Negative	Forgot password as an institution but with an unregistered account	User filling Forgot password form field Forgot password as a institution but with an unregistered account	User has just installed the Socialseeds app for the first time	<p>1. Open socialseeds app</p> <p>2. Click Get Started</p> <p>3. Click Navbar item "Profile"</p> <p>4. Click Button Sign In</p> <p>5. Click button "Institution"</p> <p>6. Redirect to Institution login form</p> <p>7. Click Link "Forgot Password ?"</p> <p>8. Showing up popup form forgot password</p>	<p>1. Showing popup Oopss.. Failed to send OTP</p>

					9. Fill in the Email Address textfield by value "yayangtaopik@gmail.com" 10. Click button Submit	
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2. Tools and Device Specification

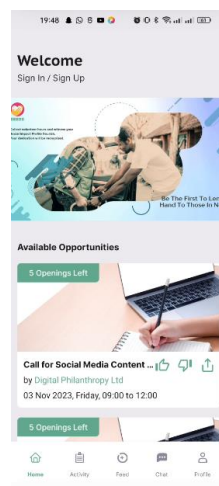
The following are the specifications and devices used to create the automation :

No	Tools and Device	Specification
1	PC	Asus A455LD, Intel Core i5 Gen 4, With 8GB of RAM, 500 GB HDD, Windows 11
2	Smartphone	Realme 7 RMX2151, Android 12, Ram 8 GB, storage 128 GB
3	Katalon Studio	Version 8.6.8
4	Appium	Version 1.22.3

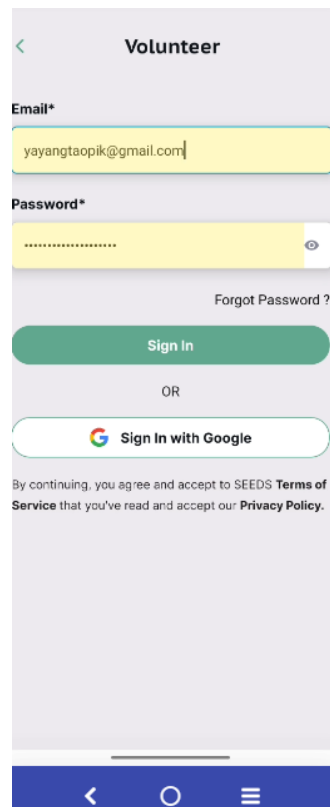
3. Manual Test

Before created an automated test case, first I tried manual testing on several required forms. I've been tried some test case based on table, which test cases as following :

1. User access home

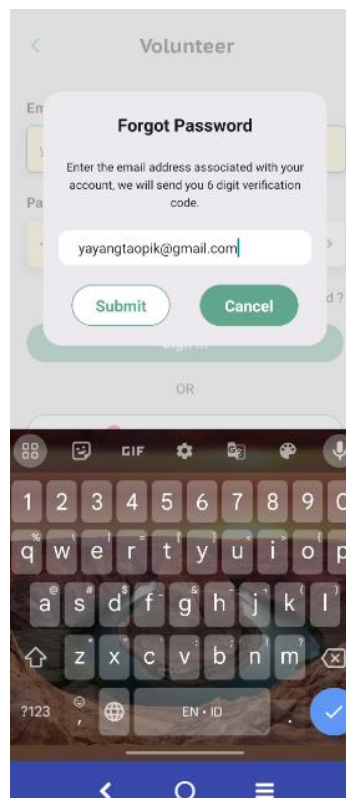


2. Sign in as a volunteer but with an unregistered account



The screenshot shows the 'Volunteer' sign-in screen. At the top, there is a back arrow and the title 'Volunteer'. Below this, there are two input fields: 'Email*' and 'Password*'. The email field contains the text 'yayangtaopik@gmail.com'. The password field is masked with dots and has a toggle icon on the right. Below the password field, there is a link 'Forgot Password?'. A green 'Sign In' button is positioned below the 'Forgot Password?' link. Underneath the button is the text 'OR'. Below 'OR' is a 'Sign In with Google' button featuring the Google logo. At the bottom of the screen, there is a disclaimer: 'By continuing, you agree and accept to SEEDS Terms of Service that you've read and accept our Privacy Policy.' The bottom of the screen shows a blue navigation bar with a back arrow, a home circle, and a menu icon.

3. Forgot password as a volunteer but with an unregistered account



The screenshot shows a 'Forgot Password' dialog box overlaid on the 'Volunteer' sign-in screen. The dialog box has a title 'Forgot Password' and a message: 'Enter the email address associated with your account, we will send you 6 digit verification code.' Below the message is an input field containing the email 'yayangtaopik@gmail.com'. At the bottom of the dialog box are two buttons: 'Submit' and 'Cancel'. The background screen is dimmed, showing the 'Volunteer' sign-in form and the 'Forgot Password?' link. The bottom of the screen shows a blue navigation bar with a back arrow, a home circle, and a menu icon. A keyboard is visible at the bottom of the screen, with the email address 'yayangtaopik@gmail.com' entered in the input field.

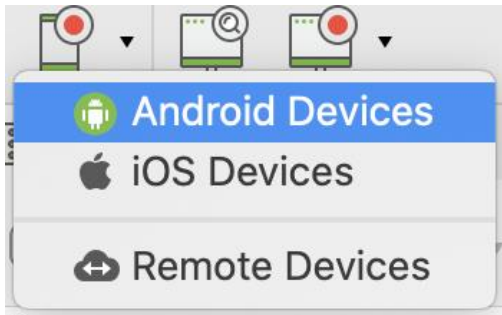
4. Sign in as a institution but with an unregistered account

5. Forgot password as an institution but with an unregistered account

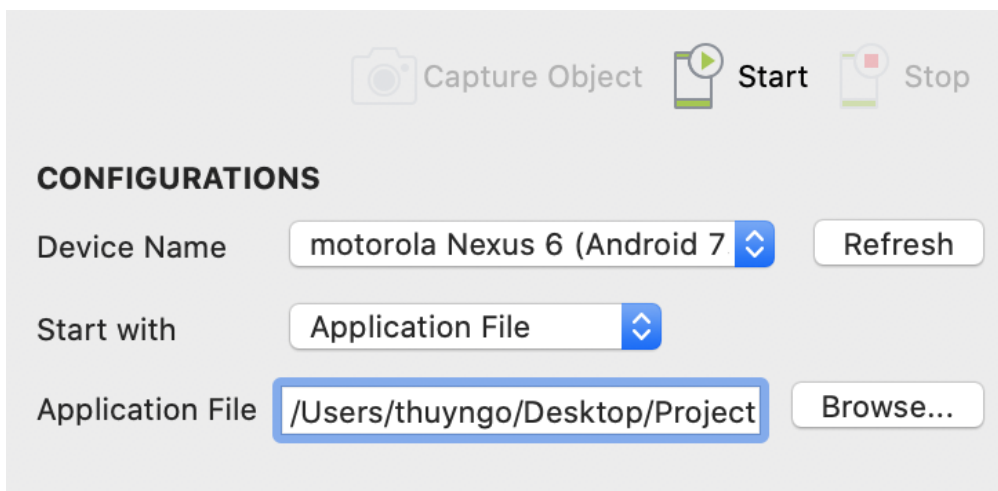
4. Recording a Test Case

After tried some manual test case, then get started to record test case.

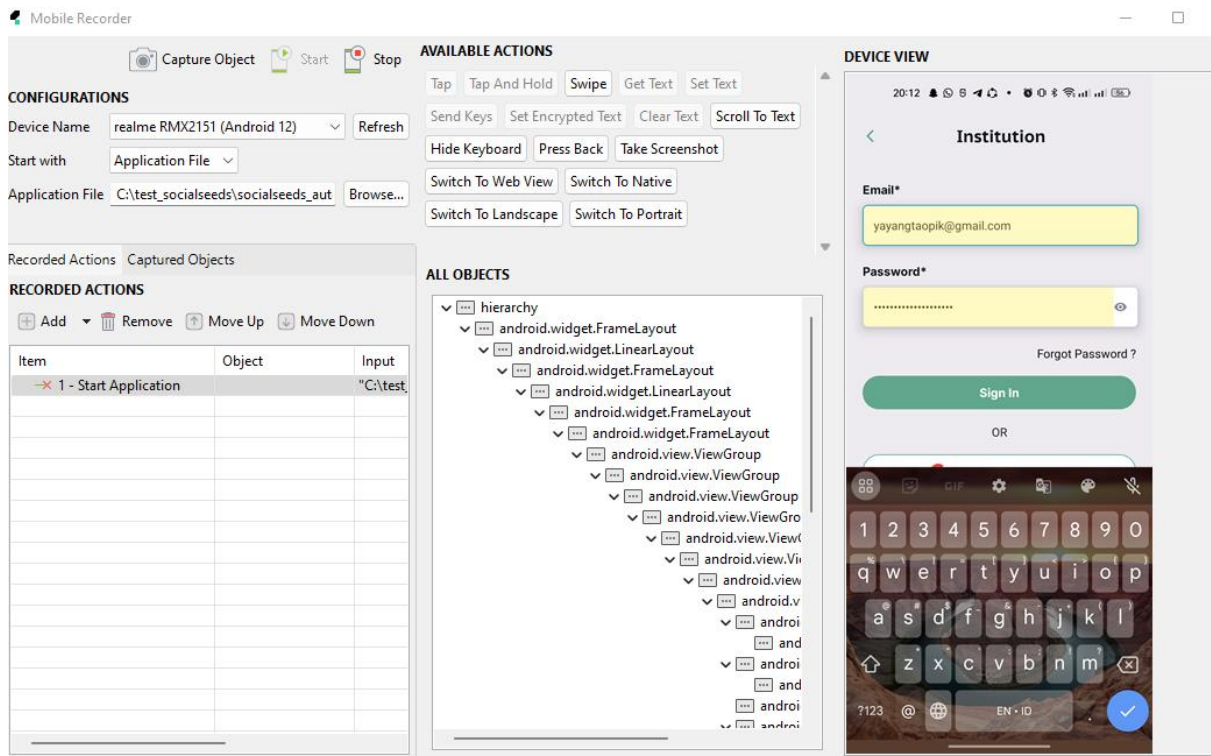
1. On the main toolbar, click **Record Mobile** > select **Android Devices**.



2. In the displayed **Mobile Recorder** dialog, specify the information at the **Configurations** section:



- **Device Name:** select one of your connected Android devices.
 - **Start with:** Select **Application File** in the drop-down list.
 - **Application File:** Browse for example **APIDemos.apk**.
3. Click **Start** to begin recording your test case:
 - Wait until the AUT is launched.
 - The **Device View** and **All Objects** are ready for you to interact with the application.
 4. On the **Device View** > click **OS**, Katalon Studio selects **OS** in **All Objects** correspondingly.

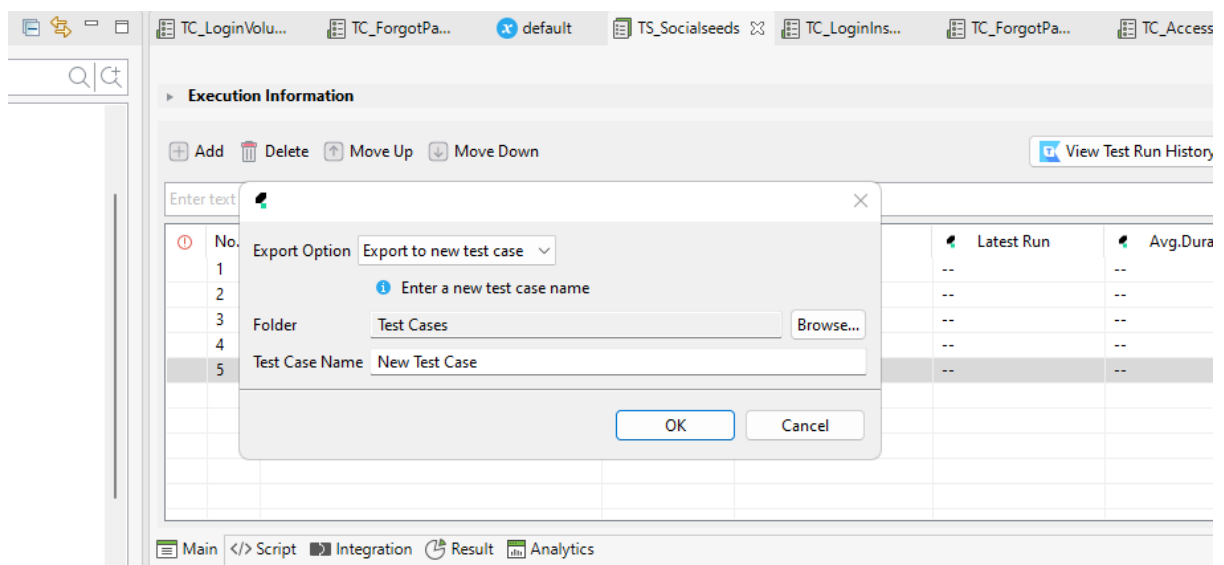


10. Click on the **Stop** button above the **CONFIGURATIONS** section to close the application and finish recording.

After finishing recording the desired interactions with the AUT, click **Save script** to save the captured objects.

In the displayed **Folder Browser** dialog, create a new folder or select an existing folder in **Object Repository** > click **OK**.

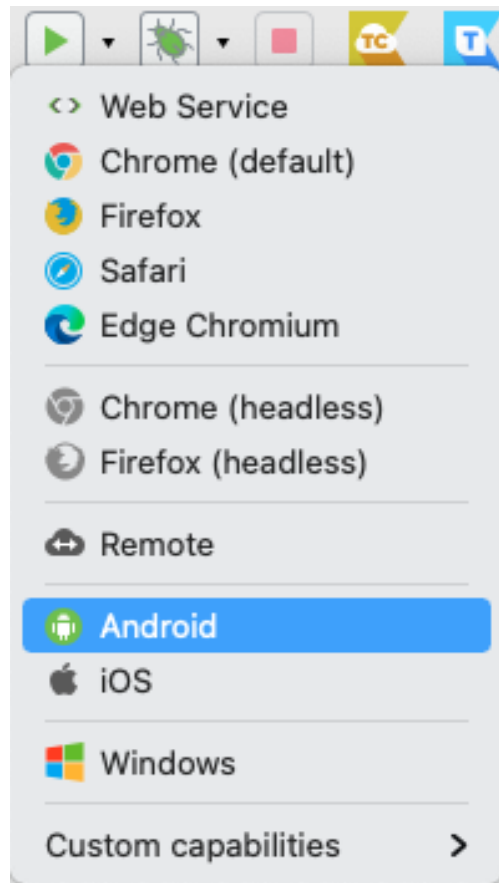
1. You can add the recorded test steps to a new test case, append to or overwrite an existing one.



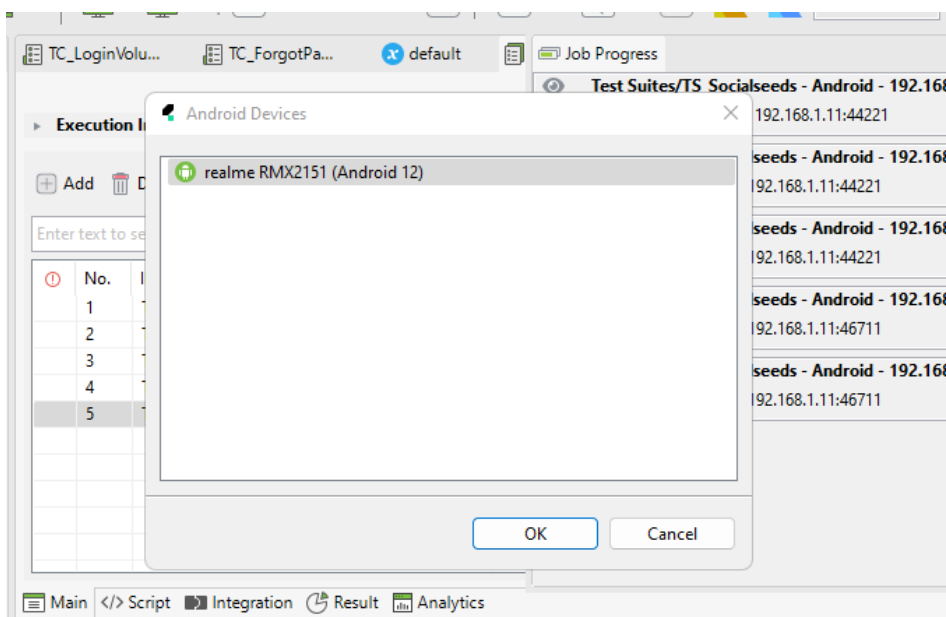
5. Playback a Test Case

To playback the recorded scenario:

1. Select the test case where you saved the recorded actions.
2. On the main toolbar, select **Android** device on the drop-down list next to **Run**.

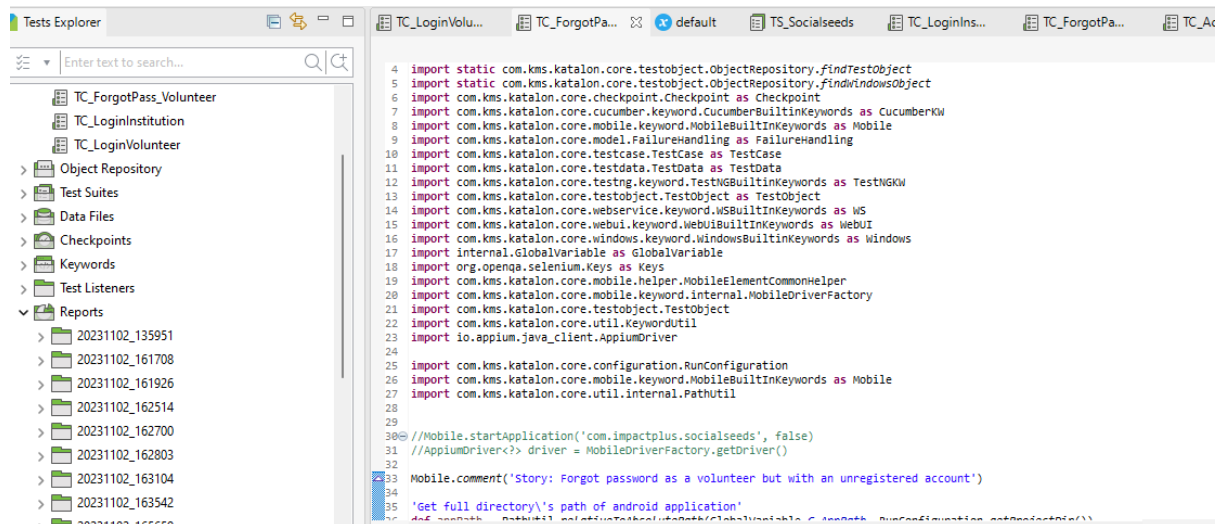


3. In the displayed **Android Devices** dialog, select a device > click **OK**.

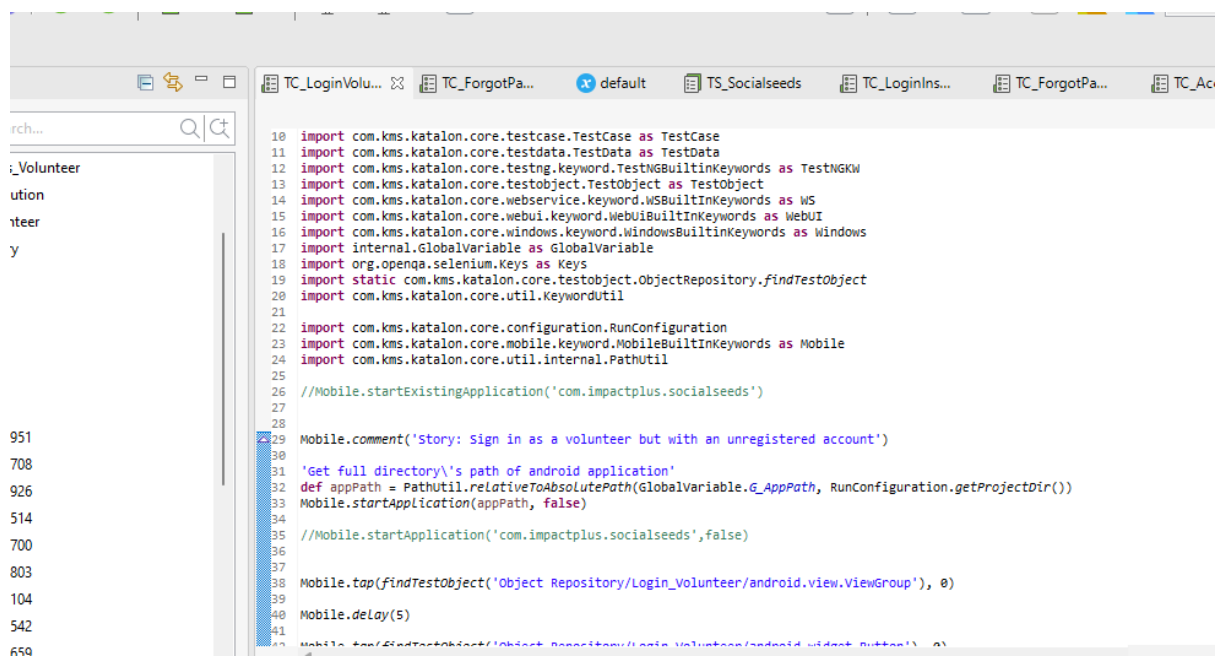


6. Modify code

After recording test case, then I tried to modify katalon code as needed by the test cases. Here some preview of the code



```
4 import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject
5 import static com.kms.katalon.core.testobject.ObjectRepository.findWindowsObject
6 import com.kms.katalon.core.checkpoint.Checkpoint as Checkpoint
7 import com.kms.katalon.core.cucumber.keyword.CucumberBuiltinKeywords as CucumberKW
8 import com.kms.katalon.core.mobile.keyword.MobileBuiltinKeywords as Mobile
9 import com.kms.katalon.core.model.FailureHandling as FailureHandling
10 import com.kms.katalon.core.testcase.TestCase as TestCase
11 import com.kms.katalon.core.testdata.TestData as TestData
12 import com.kms.katalon.core.testng.keyword.TestNGBuiltinKeywords as TestNGKW
13 import com.kms.katalon.core.testobject.TestObject as TestObject
14 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
15 import com.kms.katalon.core.webui.keyword.WebUIBuiltInKeywords as WebUI
16 import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows
17 import internal.GlobalVariable as GlobalVariable
18 import org.openqa.selenium.Keys as Keys
19 import com.kms.katalon.core.mobile.helper.MobileElementCommonHelper
20 import com.kms.katalon.core.mobile.keyword.internal.MobileDriverFactory
21 import com.kms.katalon.core.testobject.TestObject
22 import com.kms.katalon.core.util.KeywordUtil
23 import io.appium.java_client.AppiumDriver
24
25 import com.kms.katalon.core.configuration.RunConfiguration
26 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
27 import com.kms.katalon.core.util.internal.PathUtil
28
29
30 //Mobile.startApplication('com.impactplus.socialseeds', false)
31 //AppiumDriver<?> driver = MobileDriverFactory.getDriver()
32
33 Mobile.comment('Story: Forgot password as a volunteer but with an unregistered account')
34
35 'Get full directory\'s path of android application'
36 def appPath = PathUtil.relativeToAbsolutePath(GlobalVariable.G_AppPath, RunConfiguration.getProjectDir())
```



```
10 import com.kms.katalon.core.testcase.TestCase as TestCase
11 import com.kms.katalon.core.testdata.TestData as TestData
12 import com.kms.katalon.core.testng.keyword.TestNGBuiltinKeywords as TestNGKW
13 import com.kms.katalon.core.testobject.TestObject as TestObject
14 import com.kms.katalon.core.webservice.keyword.WSBuiltInKeywords as WS
15 import com.kms.katalon.core.webui.keyword.WebUIBuiltInKeywords as WebUI
16 import com.kms.katalon.core.windows.keyword.WindowsBuiltinKeywords as Windows
17 import internal.GlobalVariable as GlobalVariable
18 import org.openqa.selenium.Keys as Keys
19 import static com.kms.katalon.core.testobject.ObjectRepository.findTestObject
20 import com.kms.katalon.core.util.KeywordUtil
21
22 import com.kms.katalon.core.configuration.RunConfiguration
23 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
24 import com.kms.katalon.core.util.internal.PathUtil
25
26 //Mobile.startExistingApplication('com.impactplus.socialseeds')
27
28
29 Mobile.comment('Story: Sign in as a volunteer but with an unregistered account')
30
31 'Get full directory\'s path of android application'
32 def appPath = PathUtil.relativeToAbsolutePath(GlobalVariable.G_AppPath, RunConfiguration.getProjectDir())
33 Mobile.startApplication(appPath, false)
34
35 //Mobile.startApplication('com.impactplus.socialseeds', false)
36
37
38 Mobile.tap(findTestObject('Object Repository/Login_Volunteer/android.view.ViewGroup'), 0)
39
40 Mobile.delay(5)
41
42 Mobile.tap(findTestObject('Object Repository/Login_Volunteer/android.widget.Button'), 0)
```

```

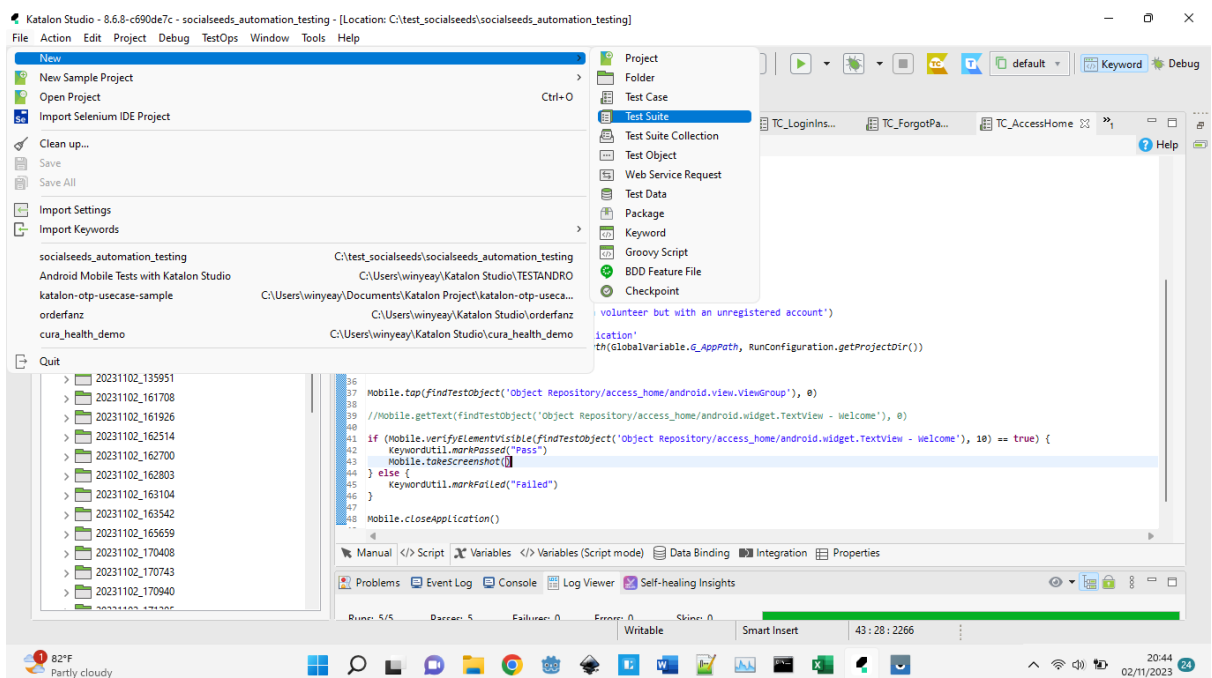
17 import internal.GlobalVariable as GlobalVariable
18 import org.openqa.selenium.Keys as Keys
19
20 import com.kms.katalon.core.util.KeywordUtil
21
22 import com.kms.katalon.core.configuration.RunConfiguration
23 import com.kms.katalon.core.mobile.keyword.MobileBuiltInKeywords as Mobile
24 import com.kms.katalon.core.util.internal.PathUtil
25
26
27 //Mobile.startApplication('com.impactplus.socialseeds', false)
28 //AppiumDriver<?> driver = MobileDriverFactory.getDriver()
29
30 Mobile.comment('Story: Forgot password as a volunteer but with an unregistered account')
31
32 'Get full directory\'s path of android application'
33 def appPath = PathUtil.relativeToAbsolutePath(GlobalVariable.G_AppPath, RunConfiguration.getProjectDir())
34 Mobile.startApplication(appPath, false)
35
36
37 Mobile.tap(findTestObject('Object Repository/access_home/android.view.ViewGroup'), 0)
38
39 //Mobile.getText(findTestObject('Object Repository/access_home/android.widget.TextView - Welcome'), 0)
40
41 if (Mobile.verifyElementVisible(findTestObject('Object Repository/access_home/android.widget.TextView - Welcome'), 10) == true) {
42     KeywordUtil.markPassed("Pass")
43     Mobile.takeScreenshot()
44 } else {
45     KeywordUtil.markFailed("Failed")
46 }
47
48 Mobile.closeApplication()

```

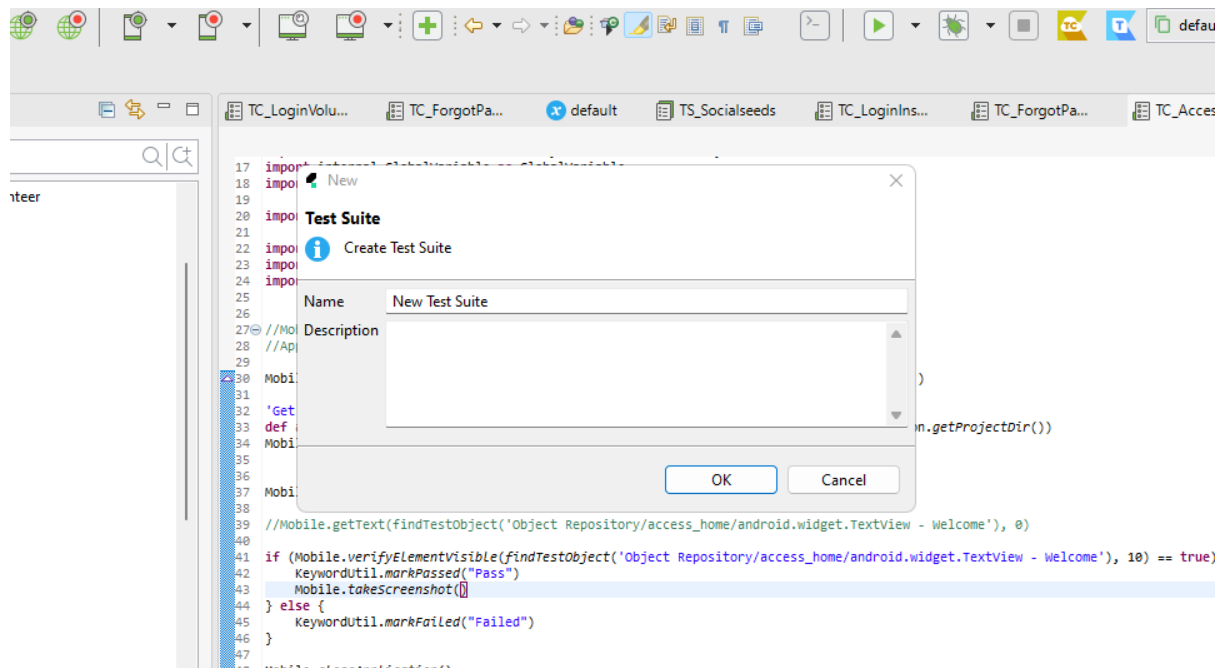
7. Create Test Suite

After modify code, then we should create test suite to generate test case report and and to be able to execute several test cases continuously.

1. From the menu bar, select **File > New > Test Suite**.



2. Fill in the **Name** of the test suite and the **Description** (optional).



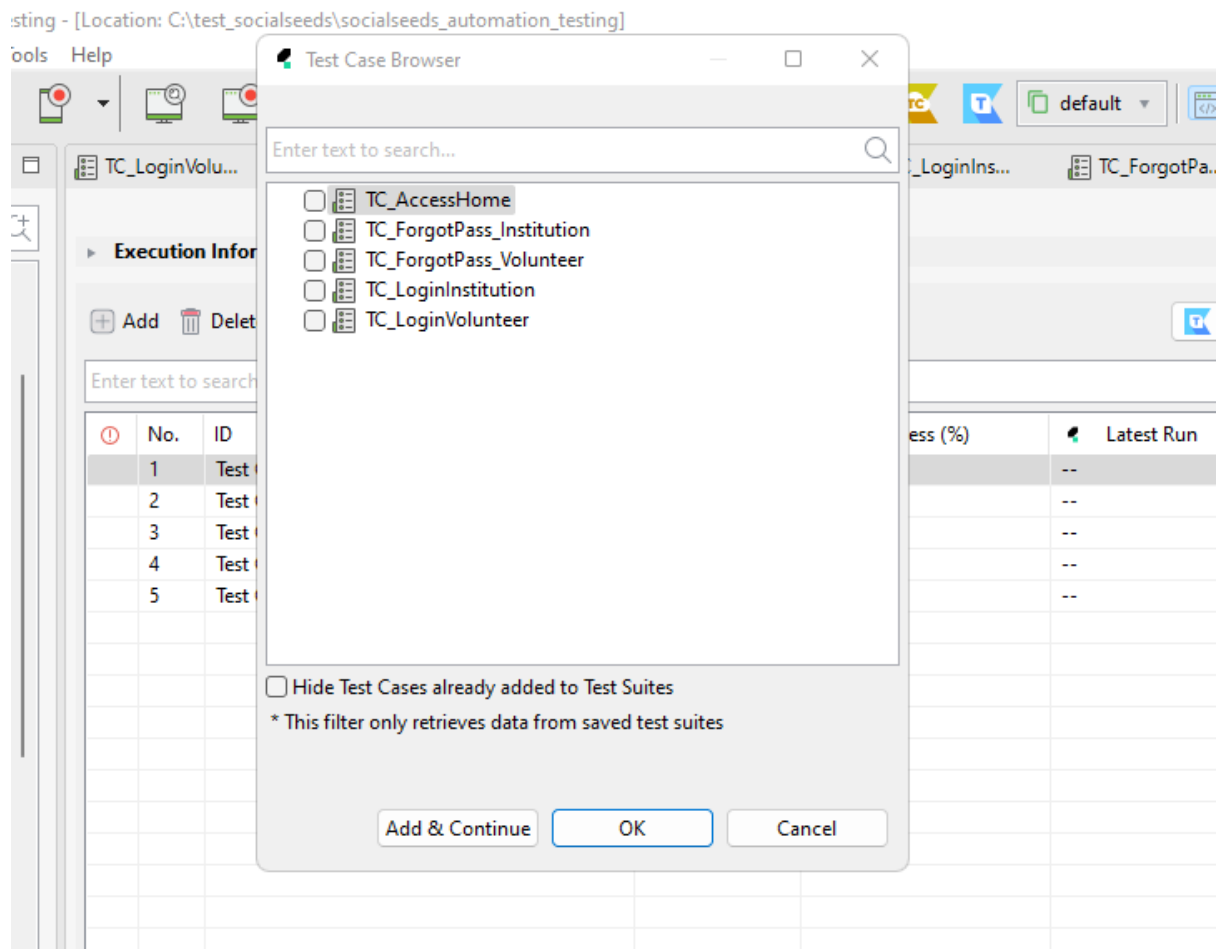
3. Click **OK** when you are done.

8. Add Test Cases to a Test Suite

There are several ways to add test cases into test suites in Katalon Studio. You can drag and drop test case into test suites or use the test suite editor to manually add the test case. You can add a test case in the same test suite many times.

To add test cases to a test suite, do as follows:

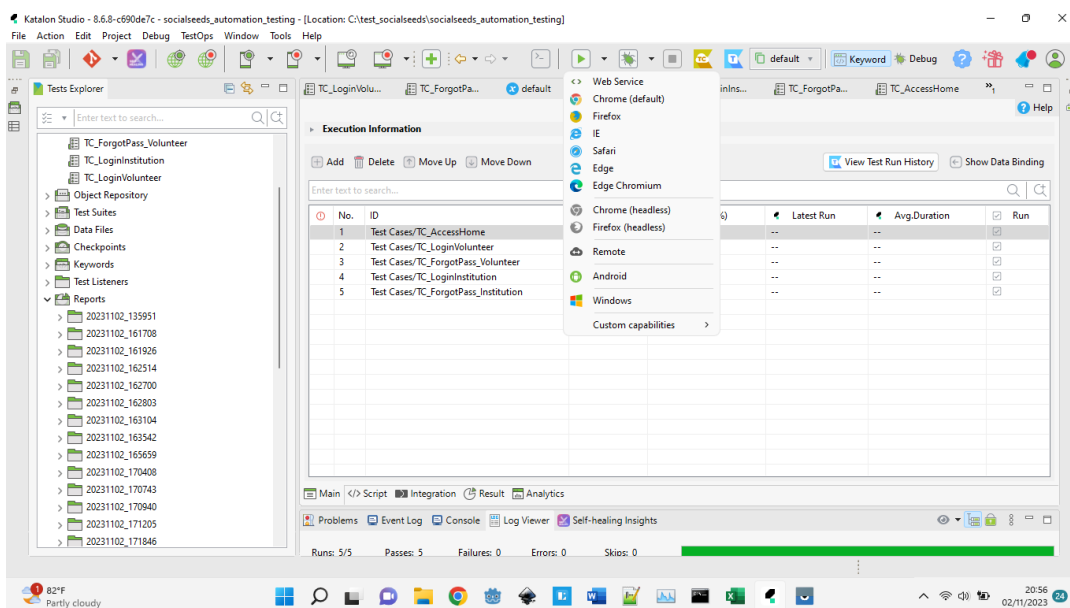
Open a test suite, then select **Add Test Case** from the command toolbar.



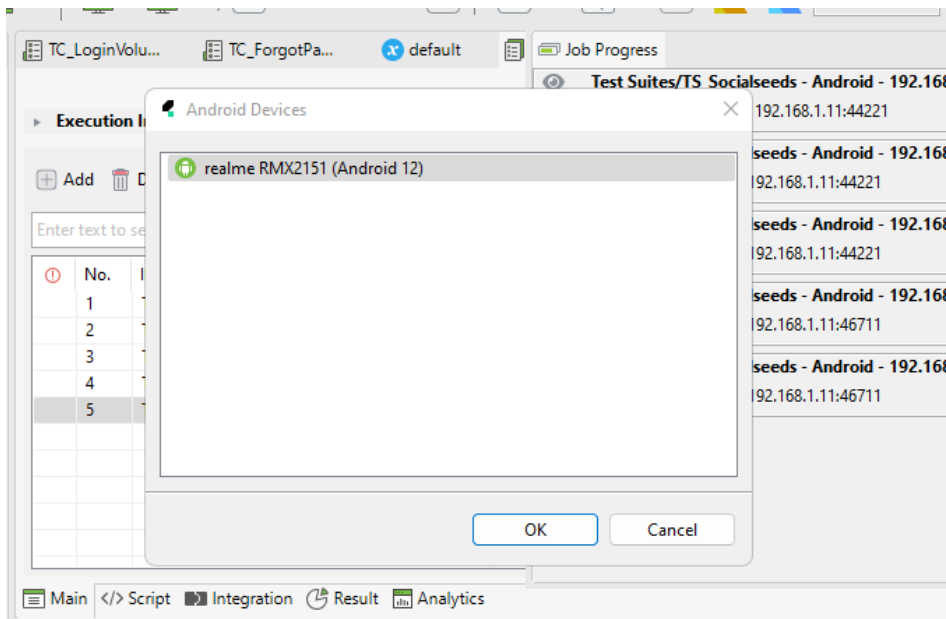
9. Execute Test Suite

After Add Test Cases to a Test Suite its time to running or execute the suite.

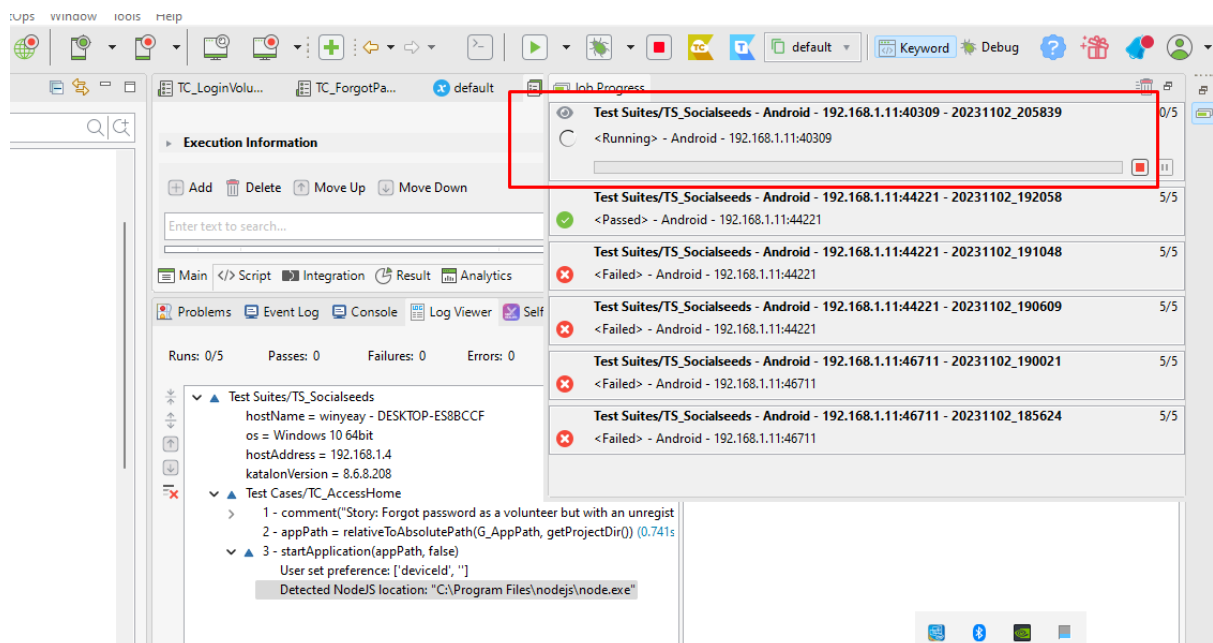
1. On the main toolbar, select **Android** device on the drop-down list next to **Run**. Then select Android



2. In the displayed **Android Devices** dialog, select a device > click **OK**.

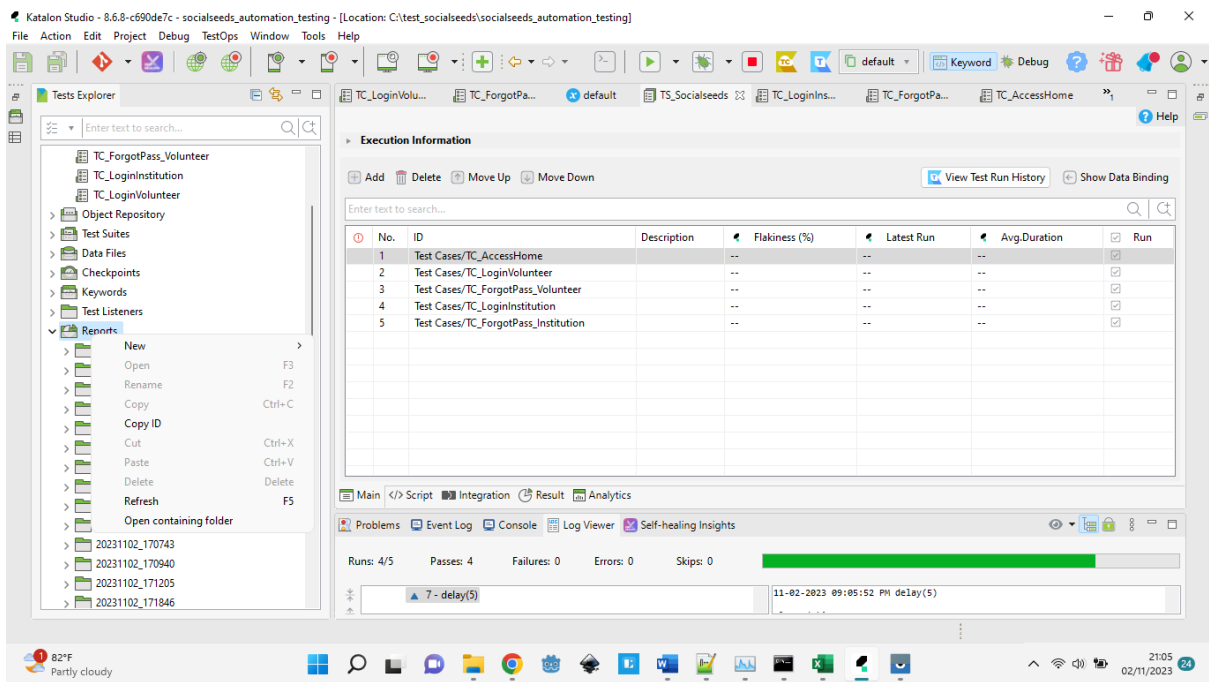


3. You can see progress of test suite execution progress



10. Generate Report

after the test suite stops executing, After the test suite stops executing, there will be an automatically generated report in various file formats such as CSV, HTML, and PDF. to see the results of the generated report, right click on Report Folder then open containing folder



On the file explorer right click then sort by date modified the choose the folder with the latest modified date then expanded it. Here it is some report

Name	Date modified	Type	Size
20231102_211022.csv	02/11/2023 21:16	Microsoft Excel C...	11 KB
20231102_211022.html	02/11/2023 21:16	Chrome HTML Do...	2.969 KB
20231102_211022.pdf	02/11/2023 21:17	Foxit PDF Reader ...	1.923 KB
1698934261423.png	02/11/2023 21:11	PNG File	1.467 KB
1698934310702.png	02/11/2023 21:11	PNG File	121 KB
1698934388956.png	02/11/2023 21:13	PNG File	107 KB
1698934392815.png	02/11/2023 21:13	PNG File	144 KB
1698934488691.png	02/11/2023 21:15	PNG File	119 KB
1698934615067.png	02/11/2023 21:16	PNG File	106 KB
appium.log	02/11/2023 21:16	Text Document	36 KB
execution.properties	02/11/2023 21:10	Properties Source ...	3 KB
execution.uuid	02/11/2023 21:17	UUID File	1 KB
execution0.log	02/11/2023 21:17	Text Document	188 KB
execution0.log.lck	02/11/2023 21:10	LCK File	0 KB
JUnit_Report.xml	02/11/2023 21:17	XML Document	35 KB
testCaseBinding	02/11/2023 21:10	File	1 KB
tsc_id.txt	02/11/2023 21:17	Text Document	0 KB

Html Report

Host name: winyeay - DESKTOP-ES8BCCF
Local OS: Windows 10 64bit
Katalon version: 8.8.8.208
Device Name: realme RMX2151 (Android 12)

Test Execution Log

TEST SUITE: TS_Socialseeds

Full Name: TS_Socialseeds
Start / End / Elapsed: 2023-11-02 21:10:28.994 / 2023-11-02 21:18:57.601 / 00:08:30.607
Status: 5 test total, 5 passed, 0 failed, 0 error, 0 incomplete, 0 skipped

TEST CASE: Test Cases/TC_AccessHome

Full Name: TS_Socialseeds/Test Cases/TC_AccessHome
Start / End / Elapsed: 2023-11-02 21:10:27.543 / 2023-11-02 21:11:04.914 / 00:00:37.371
Status: PASSED

TEST STEP: comment("Story: Access Home")

TEST STEP: Description: Get full directory's path of android application
appPath = relativeToAbsolutePath(G_AppPath, getProjectDir())

TEST STEP: startApplication(appPath, false)

TEST STEP: lap(findTestObject("Object Repository/access_home/android.view.ViewGroup"), 0)

TEST STEP: if (verifyElementVisible(findTestObject("Object Repository/access_home/android.widget.TextView - Welcome"), 10) == true)

TEST STEP: closeApplication()

TEST CASE: Test Cases/TC_LoginVolunteer

Full Name: TS_Socialseeds/Test Cases/TC_LoginVolunteer
Start / End / Elapsed: 2023-11-02 21:11:04.941 / 2023-11-02 21:11:53.117 / 00:00:48.176
Status: PASSED

TEST STEP: comment("Story: Sign in as a volunteer but with an unregistered account")

TEST STEP: Description: Get full directory's path of android application
appPath = relativeToAbsolutePath(G_AppPath, getProjectDir())

TEST STEP: startApplication(appPath, false)

TEST STEP: lap(findTestObject("Object Repository/Login_Volunteer/android.view.ViewGroup"), 0)

TEST STEP: delay(5)

TEST STEP: lap(findTestObject("Object Repository/Login_Volunteer/android.widget.Button"), 0)

TEST STEP: delay(5)

TEST STEP: lap(findTestObject("Object Repository/Login_Volunteer/android.view.ViewGroup (1)"), 0)

TEST STEP: delay(5)

Pdf Report

20231102_211022.pdf - Foxit PDF Reader

Search

me

Comment

View

Form

Protect

Foxit eSign

Share

Help

Snapshot

Clipboard

Zoom

Page Fit

Reflow

Rotate

Typewriter

Highlight

Link

Bookmark

File

Image

Audio & Video

Fill & Sign

AI Assistant

20231102_211022.pdf

Execution Environment

Host name: winyeay - DESKTOP-ES8BCCF
Local OS: Windows 10 64bit
Katalon version: 8.8.8.208
Browser: null

Summary

ID	Test Suites/TS_Socialseeds		
Description			
Total	5		
Passed	5	Failed	0
Error	0	Incomplete	0
Skipped	0		
Start	2023-11-02 21:10:28	End	2023-11-02 21:18:57
Elapsed	8m - 30.607s		

#	ID	Description	Status
1	Test Cases/TC_AccessHome		PASSED
2	Test Cases/TC_LoginVolunteer		PASSED
3	Test Cases/TC_ForgotPass_Volunteer		PASSED
4	Test Cases/TC_LoginInstitution		PASSED
5	Test Cases/TC_ForgotPass_Institution		PASSED