

Calabash on windows - Android Automation using Ruby

1) JDK Installation (jdk1.7.0_07)

JAVA_HOME: C:\Program Files\Java\jdk1.7.0_07

2> Install Ruby with DEV KIT

C:\Users\xxx>ruby -v

Install Ruby (ruby 1.9.3p392 (2013-02-22) [i386-mingw32]) with DEV KIT for the Ruby version you install (DevKit-tdm-32-4.5.2-20111229-1559-sfx)

3> How to Install Android SDK

C:\Users\xxx\android-sdks

ANDROID_SDK_HOME: C:\Users\xxx\android-sdks

and (System Variable) Path : C:\Users\xxx\android-sdks\platform-tools

4> Install calabash

C:\Users\SONY>**gem install calabash-android**

C:\Users\SONY> **gem install cucumber**

C:\Users\SONY> **calabash-android gen**

For Eg: c:\user\SONY\features\...

Run the command 'calabash-android gen' It will create a Cucumber skeleton in the current folder.

5> Install Android Platforms and Add-ons via "SDK Manager".

(http://www.ntu.edu.sg/home/ehchua/programming/android/Android_HowTo.html)

a> Launch Android's "SDK Manager (C:\Users\SONY\android-sdks)", which is responsible for managing the software components. If you have run the installer, it should have started the SDK Manager after the installation. Otherwise, launch the SDK manager by running (double-clicking) "SDK Manager.exe" under the Android installed directory.

b> In "Add Platforms and Packages", select your target Android platforms and add-ons packages. For novices, select "Android SDK Platform-Tools", and at least one Android platform (e.g., Android 4.1 (API 16)) - "Install".

6> Feature folder have below structure.

```
features
|_support
| |_app_installation_hooks.rb
| |_app_life_cycle_hooks.rb
| |_env.rb
|_step_definitions
| |_calabash_steps.rb
|_my_first.feature
```

a> Write code in '**my_first.feature**' file, for Eg:

Feature: Carpooling feature

Scenario: As a user I should see my home screen with user defined values and save it
Then I see "Carpoolingnew"
When I enter First Name
When I enter Last Name
When I enter Mobile
When I enter Home Address
When I enter Office Address
Then I scroll down
And I press "Submit"
Then I take s screenshot
Then I should see homepage text

b> Write custom steps or ruby code in '**calabash_steps.rb**' file, for Eg:
require 'calabash-android/calabash_steps'

```
# Custom step definitions are here
# Pipes denote arguments
```

```
When(/^I enter First Name$/) do
  performAction('clear_id_field', 'firstname_et')
  performAction('enter_text_into_id_field', "Ravi", 'firstname_et')
end
```

```
When(/^I enter Last Name$/) do
  performAction('clear_id_field', 'lastname_et')
  performAction('enter_text_into_id_field', "Mehta", 'lastname_et')
end
```

```
When(/^I enter Mobile$/) do
  performAction('clear_id_field', 'mobile_et')
  performAction('enter_text_into_id_field', "9857687645", 'mobile_et')
end
```

```
When(/^I enter Home Address$/) do
  performAction('clear_id_field', 'home_add_et')
  performAction('enter_text_into_id_field', "Eden Garden, Viman Nagar", 'home_add_et')
end
```

```
When(/^I enter Office Address$/) do
  performAction('clear_id_field', 'office_add_et')
  performAction('enter_text_into_id_field', "GS Lab Pvt Ltd, Baner", 'office_add_et')
end
```

```
Then(/^I should see homepage text$/) do
  performAction('assert_text', "Others looking for a lift", true)
  performAction('assert_text', "Friends with a vehicle", true)
end
```

```
Then(/^I take s screenshot$/) do
  screenshot_embed
end
```

c> Feature folder and apk file should be in same folder.

d> Connect Emulator or Real Device and in Ruby command prompt type 'adb devices' to know your device is connected or not. For Eg:

C:\Users\xxx>adb devices

* daemon not running. starting it now on port 5037 *

* daemon started successfully *

List of devices attached

emulator-5554 device

e> From Ruby command prompt go to the same folder location where you have feature folder and apk file.

f> Run the command 'calabash-android resign apk file'.

g> Run 'calabash-android run apk file'. It will start the execution.

h> You can integrate calabash-android with Jenkins and get Cucumber Reports. It require few steps.

