Installation of Appium and Robot Framework for iOS

To install Appium and RobotFramework, first install [Homebrew](https://brew.sh/), [Node.js](https://nodejs.org/en/), [Java Development Kit](https://www.java.com/en/download/faq/develop.xml) and [Phyton 3](https://www.python.org/). Some of them may already be installed on your mac if you’re developing apps.

If you don’t have Xcode installed yet, install them. Xcode can be downloaded in the App Store of macOS

Install Robot Framework using the terminal:

pip3 install robotframework

pip3 install robotframework-appiumlibrary

After a successful install of Robot Framework, install Appium and Selenium using the terminal:

npm install -g appium

npm install -g selenium

After installing Appium and Robot Framework, it’s time to install the tools that help Appium to perform.

brew install ideviceinstaller

brew install carthage

brew install libimobiledevice —HEAD

npm install -g ios-deploy

npm install -g deviceconsole

sudo npm install appium-doctor -g

After installing all the tools, you need to set the home path for Java and Android. If you run macOS Catalina, you need to set those paths in the .zprofile file. If you are using an older macOS operating system, you need to write this inside the .bash\_profile file.

The paths can be different on each computer, In my case, my *.zprofile* is looking like this:

export JAVA\_HOME=/usr/libexec/java\_home

export ANDROID\_HOME=/Users/j.zonneveld/Library/Android/sdk

export PATH=${JAVA\_HOME}/bin:$PATH

After the setup, run the following command in the terminal to validate the installation of Appium is correctly:

appium-doctor

If all settings are correct, you can continue. If something is not set correctly, fix these issues first.

Now Appium is configured correctly, it is time to set up the certificates for Apple in Xcode. This is needed to install the XCTest runner on iOS devices, which is needed to trigger the test cases on the device.

Go to the terminal and fill in the following:

cd /usr/local/lib/node\_modules/appium/node\_modules/appium-xcuitest-driver/WebDriverAgent/

./Scripts/bootstrap.sh

open -a Xcode WebDriverAgent.xcodeproj

Xcode should open now. Open the target WebDriverAgentLib and sign this with your Developer Account. Do the same for WebDriverAgentRunner. Build the project to validate if the signing was successful.

Appium and Robot Framework are now successful installed and set up!

Start Appium using the terminal using the following command:

appium

Write simple test cases for ios simulator

Turn on ios simulator by opening Xcode, go to Xcode menu > Open Developer Tool > Simulator

Open appium desktop to catch element

After having the necessary elements, write a simple test case

