QA Automation Setup

Configuration of Appium for Android in Mac OS

- **Step 1:** Install latest version of **JDK** (http://www.oracle.com/technetwork/java/javase/downloads/index.html) – download the JDK that specific to Mac OS
- **Step 2:** Set **JAVA_HOME**

Startup T**erminal** in Mac and enter following commands
Type "touch ~/.bash_profile" to create your new file
Type "open ~/.bash_profile" to open it in TextEdit
Enter "export JAVA_HOME=/<jdk_path>"
Type "source ~/.bash_profile" to reload the bash profile to user.
Type "echo $JAVA_HOME" to check the path of JDK is set or not.

- **Step 3:** Install latest version of eclipse IDE (https://www.eclipse.org/downloads/?osType=macosx) – download the eclipse that specific to Mac OS
- **Step 4**: Install **TestNG plugin in eclipse**(http://beust.com/eclipse-old/eclipse-6.8.6.20130517_2218/)
- **Step 5**: Install **Android SDK** (http://developer.android.com/sdk/index.html) in Mac specific SDK.
- **Step 6**: Set **ANDROID_HOME**

Startup Terminal in Mac and enter following commands
Type "touch ~/.bash_profile" to create your new file
Type "open ~/.bash_profile " to open it in TextEdit
Enter "export ANDROID_HOME=/<android sdk_path>"
Type "source ~/.bash_profile" to reload the bash profile to user.
Type "echo $ANDROID_HOME" to check the path of SDK is set or not.

- **Step 7**: Set tools and platform-tools folders to Path Settings

Startup Terminal in Mac and enter following commands
Type "touch ~/.bash_profile" to create your new file
Type "open ~/.bash_profile " to open it in TextEdit
Type "PATH=<path of platform-tools>: $PATH"
Type "PATH=<path of tools>: $PATH"

- **Step 8:** Install **Appium** for Mac. We can install Appium two ways in Mac OS:

By using **dmg** file (direct download the executable .dmg file and install)
(https://bitbucket.org/appium/appium.app/downloads/)
Command-line installation method. Open terminal and enter following commands:
brew install node //get node.js
npm install -g appium //get appium
npm install wd //get appium client
appium& //start appium
node your-appium-test.js
NOTE: If **brew** missing in OS X then open http://brew.sh/ and run the following command in terminal:
ruby -e "$(curl –fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

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(if needed)

- **Step 9:** Additional tools set up: Genymotion -> Install Virtualbox in Mac. ->Install Genymotion in Mac.

Open Virtual Device > File menu > Export Appliances > Add virtual emulators by browse (need to download the emulator say Samsung S3 or Samsung S4).
Open Genymotion application
Add virtual devices/emulators to Genymotion.
Run any emulator.
Run "adb devices" in terminal to check the list of devices active currently.
Open Genymotion and go to Settings > ADB > Set Android SDK path > tap on OK.

Configuration of Appium for iOS in Mac OS

- **Step 1:** Install latest version of **JDK** (http://www.oracle.com/technetwork/java/javase/downloads/index.html) – download the JDK that specific to Mac OS
- **Step 2:** Set **JAVA_HOME**

Startup T**erminal** in Mac and enter following commands
Type "touch ~/.bash_profile" to create your new file
Type "open ~/.bash_profile" to open it in TextEdit
Enter "export JAVA_HOME=/<jdk_path>"
Type "source ~/.bash_profile" to reload the bash profile to user.
Type "echo $JAVA_HOME" to check the path of JDK is set or not.

- **Step 3:**Install latest version of eclipse IDE (https://www.eclipse.org/downloads/?osType=macosx) – download the eclipse that specific to Mac OS
- **Step 4**: Install **TestNG plugin in eclipse** (http://beust.com/eclipse-old/eclipse-6.8.6.20130517_2218/)
- **Step 5**: Install **Xcode**latest version (6.4 or 7.0 and above) (https://developer.apple.com/xcode/download/)

Mainly for instruments to start the capturing the screens.
Open Xcode: Tap on Xcode menu > Open Developer Tool> Instruments> Start capturing the screen objects.
Automation tool in Xcode IDE>UIAutomation using the JavaScript (*optional*).

- **Step 6:** Install **Appium** for Mac.

We can install Appium two ways in Mac OS:
By using **dmg** file (direct download the executable .dmg file and install) (https://bitbucket.org/appium/appium.app/downloads/)
Command-line installation method. Open terminal and enter following commands:
brew install node //get node.js
npm install -g appium //get appium
npm install wd //get appium client
appium& //start appium
node your-appium-test.js

*NOTE: If **brew** missing in OS X then open http://brew.sh/ and run the following command in

terminal:
ruby -e "$(curl –fsSL https://raw.githubusercontent.com/Homebrew/install/master/install)"

Make sure that the below variables are set:

export JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_121.jdk/Contents/Home
export ANDROID_HOME=/Users/farabiadmin/Softwares/sdk
export PATH=$PATH:$JAVA_HOME/bin
export PATH=$PATH:$ANDROID_HOME/platform-tools
export PATH=$PATH:$ANDROID_HOME/tools
export M2_HOME=/Users/farabiadmin/Softwares/apache-maven
export PATH=$PATH:$M2_HOME/bin

Adding cucumber plugin in Eclipse:

http://toolsqa.com/cucumber/install-cucumber-eclipse-plugin/

Maven Setup

- **Step 1 - Verify Java Installation on your Machine**
  java -version
- **Step 2 - Set JAVA Environment**
  JAVA_HOME=/Library/Java/JavaVirtualMachines/jdk1.8.0_121.jdk/Contents/Home
  PATH=$PATH:$JAVA_HOME/bin
- **Step 3 - Download Maven Archive**
  Download Maven (Latest) from https://maven.apache.org/download.cgi
- **Step 4 - Extract the Maven Archive**
- **Step 5 - Set Maven Environment Variables**
  M2_HOME=/Users/farabiadmin/Softwares/apache-maven
- **Step 6 - Add Maven bin Directory Location to System Path**
  PATH=$PATH:$M2_HOME/bin
- **Step 7 - Verify Maven Installation**
  mvn --version