Appium Workshop

NYC Appium Meetup Team

Requirements
Please setup it.

1. JAVA (1.7 or above) JDK: http://www.oracle.com/technetwork/java/javase/downloads/index.html
2. Node (0.10 or above): https://nodejs.org/download/
3. Appium : http://appium.io/
4. Java Editor - IDEA IntelliJ: https://www.jetbrains.com/idea/download/
    1. Advanced user can select editor of their choice but be advised to make sure it supports the plug-ins used for workshop .
5. Maven : https://maven.apache.org/download.cgi

We planning to use Android only(Both Mac and Windows) during this workshop as doing workshop on both iOS and Android will require longer time :
1. Android Developer Tools >= 22: http://developer.android.com/sdk/index.html#Other
2. Download the zip file per your OS (Mac or Windows) and extract the files into following path(directly without root folder):
    1. Windows: C:\android-sdk
    2. Mac: /opt/android-sdk
3. Set the ANDROID_HOME – restart the command prompt or mac terminal after completing following steps.
    1. For Mac :
        1. Setup all the environment varibles – run this command
        2. Open the .bash_profile into vi:
            1. vi ~/.bash_profile
        3. Then enter these values – Make sure to replace 19.1.0 with latest API version you have present in opt/android-sdk/build-tools/ folder
            1. export ANDROID_HOME=opt/android-sdk
            2. export PATH=opt/android-sdk/tools:opt/android-sdk/platform-tools:opt/android-sdk/build-tools/ 19.1.0:$PATH
            3. If you already have sdk installed on different folder, change opt/android-sdk to your SDK folder from step 1
        4. Press 'esc' follow by :wq! to save and quit the editor
    2. For Windows:
        1. Go To Computer->Properties->Advanced System Settings->Environment Details and add "ANDROID_HOME" as system variable with value "C:\android-sdk"

Create Android Virtual Device (AVD)

- Type "android" from windows command line or mac terminal and it will open "Android SDK Manager", where you can managed android sdk packages on your system.
- For workshop, Install following packages:
  - Under tools -
    - Android SDK Platform-tools,
    - Android SDK Build-tools (19.1)
  - Under Android 4.4.2 (API 19) -
    - SDK Platform
    - Google APIs Intel x86 Atom System Image
  - Under Extras -
    - Google USB Driver
    - Google Web Driver
    - Intel x86 Emulator Accelerator (HAXM installer)

Create AVD (using Command line)

- The below commands will help you setup an emulator from the command prompt -
  - Windows: "%ANDROID_HOME%/tools/android" list targets
  - Mac: $ANDROID_HOME/tools/android list targets

- When you run the above command, find the target that is for x86 version and change the below command for -t option. In the below command I have the target ad 1. But yours might change.
  - Mac: $ANDROID_HOME/tools/android create avd -n NYCMeetup -t 1 -c 500M –force
  - Windows: "%ANDROID_HOME%/tools/android" create avd -n NYCMeetup -t 1 -c 500M –force

Launch AVD

- From Mac terminal
  - $ANDROID_HOME/tools/emulator @ NYCMeetup –netfast

- From Windows command line
  - "%ANDROID_HOME%/tools/emulator" @NYCMeetup –netfast

Setting up Appium

- There are two versions of Appium:
  - Appium GUI
  - Appium Server
- Setting up the Appium GUI is straight forward
  - Download and setup Appium from http://appium.io/

Appium server (command line)

- Run following from Mac Terminal or Windows command line in sequence
  - npm install -g appium # get appium
  - npm install wd # get appium client
- Verify appium installed properly by trying to start it from command line using following command
  - appium & # start appium