**Testing Android App**

**STEPS:**

1. Enable Android device for debug mode.
2. Download and install ‘Android Studio’ so we can leverage ‘adb’.

Adb – Is Android debug bridge that gives access to device logs and other features such as installing apps over command line.

1. Look forward into tools ‘ddms’ as well as uiautomatorviewer to take screenshots ,inspect the app and get performance info.
2. If manual testing becomes tedious, consider automation.

**Installing Calabash Testing Framework.**

1. Open the terminal and execute

$ gem install calabash-android

1. For right permission: please execute

$ sudo gem install calabash-android

1. Download and install Android SDK.
2. Configure Bash Profile :

The Bash profile .bash\_profile is a hidden file in the personal folder that you will need to configure for your Android SDK. After having moved the sdk and eclipse folder in your Applications folder, you can copy paste the following 2 lines into your .bash\_profile:

export ANDROID\_HOME=/Applications/sdk

export PATH=$PATH:$ANDROID\_HOME:$ANDROID\_HOME/tools:$ANDROID\_HOME/platform-tools:$ANDROID\_HOME/add-ons

1. After configuring bash profile, close all the terminal windows to affect your change.
2. Plug in the device.
3. Open new terminal window and execute $ adb devices
4. Check for list of devices attached.
5. In case – no output then check for activate “USB Debugging” mode for device.
6. Prepare test-cases.
7. Open new terminal window and navigate via cd to the location of the application folder that has been downloaded and then execute $ calabash-android run \*\*\*\*\_debug.apk --verbose
8. When prompted to resign the app .Follow the instructions to resign the app. After resigning please execute :

$ calabash-android run \*\*\*\_debug.apk –verbose

1. This should install the app on the device, and after a minute or two it should get launched and sample test-cases should get executed. It will take 3-5 min for the test-cases to get completed, can also exit the terminal to stop the test-run.

Test Case:

1. Input USD value entered in ‘INTEGER’ – NUMBER only.
2. When nothing entered into edit text /text-box then it will be prompted for valid input value.