

REACT NATIVE

Step 1. Install Required Software :

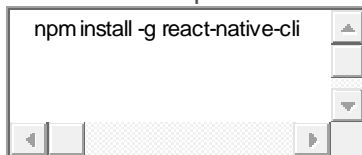
The first step to install React Native is Download and Install below required software packages.

NodeJS : Download and install the latest NodeJS windows machine installer software package from nodejs.org .

Python : Download and install the latest Python windows installer package from [Python.org](https://python.org) .

Step 2. Install React Native :

After installing **NodeJS** we can access the npm packages via Command Line Interface (DOS) in windows. So open Command prompt type the below command to install React Native .



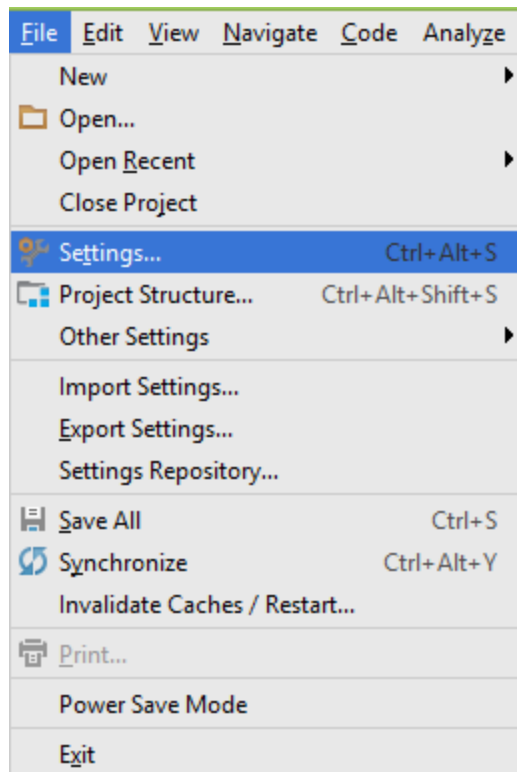
Step 3. Install JDK(Java Development Kit) :

JDK : Download and install JDK from Oracle's official website oracle.com .

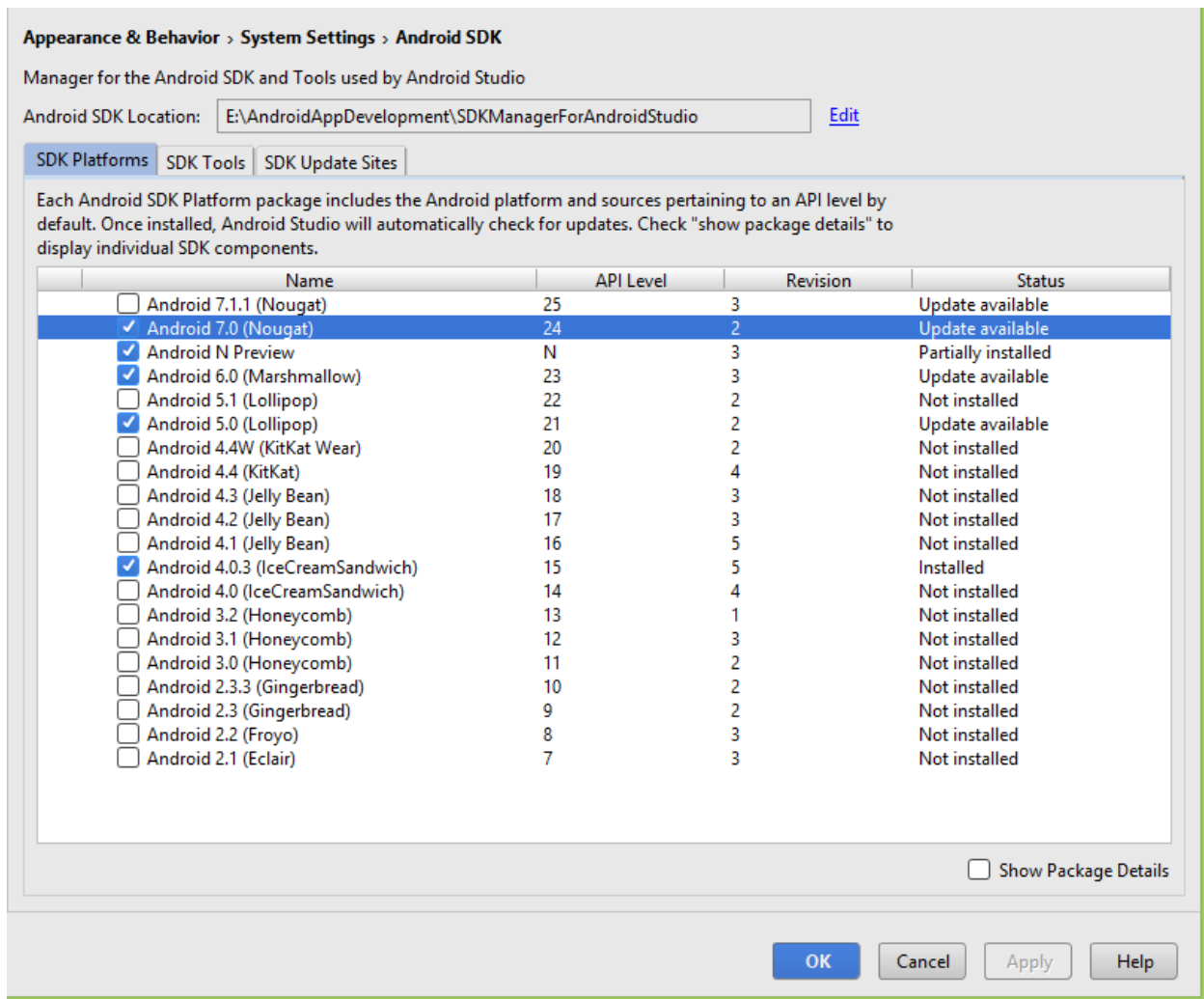
Step 4. Install Android Studio + SDK Manager :

Download the Android Studio latest version from Google Android Developers official Page developer.android.com.

After installing Android Studio Open it Goto **Files -> Settings** .



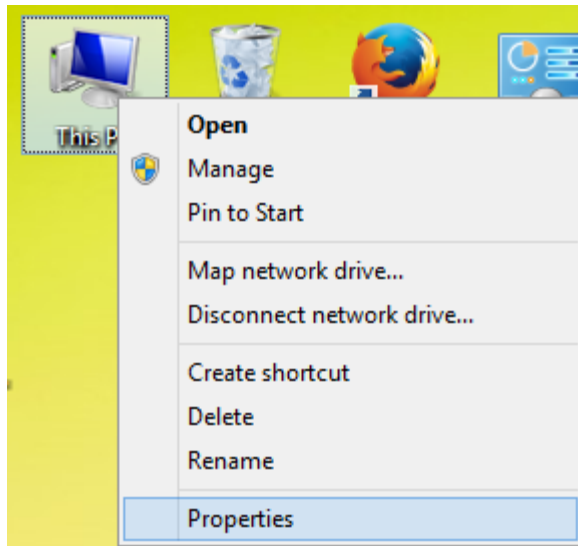
Goto Appearance and Behavior -> System Settings -> Android SDK and install latest android platform.



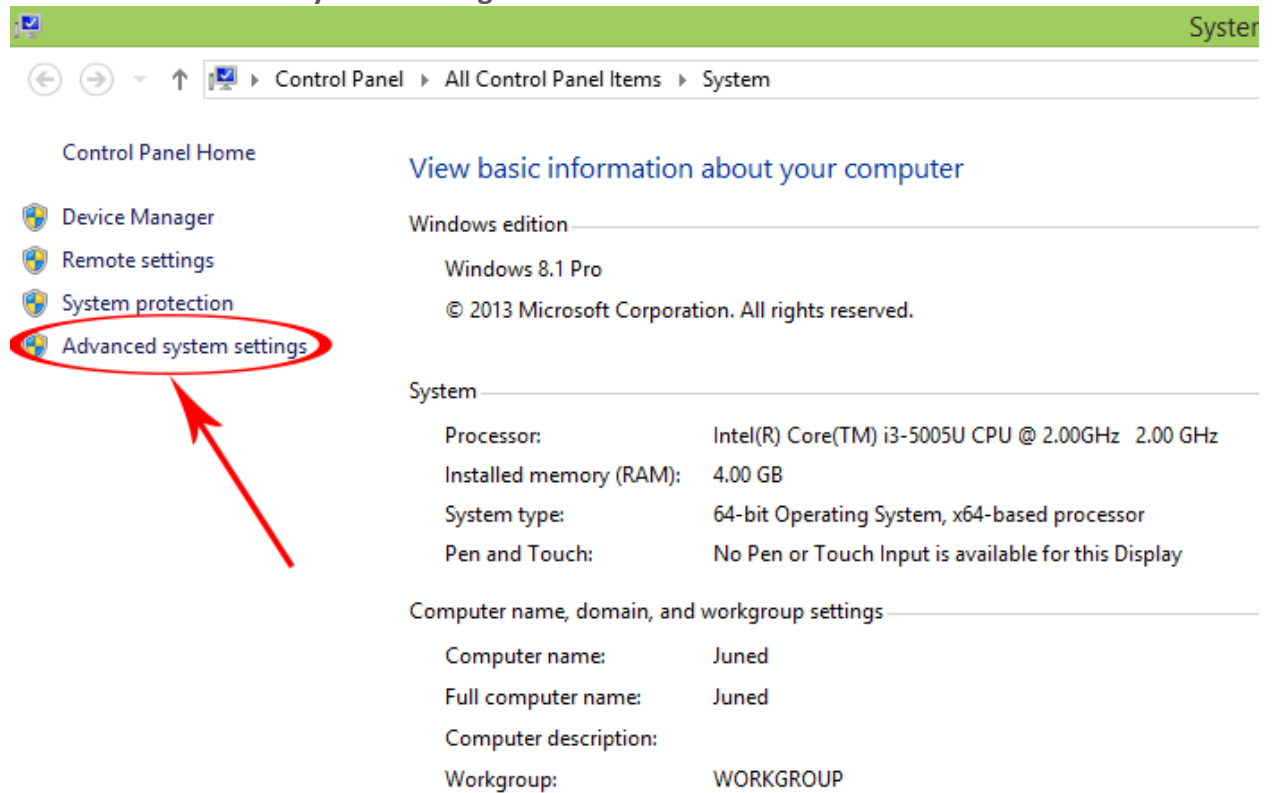
Step 5. Add Environment Variable ANDROID_HOME in Windows :

React Native required ANDROID_HOME variable to compile and run apps. So define the ANDROID_HOME variable.

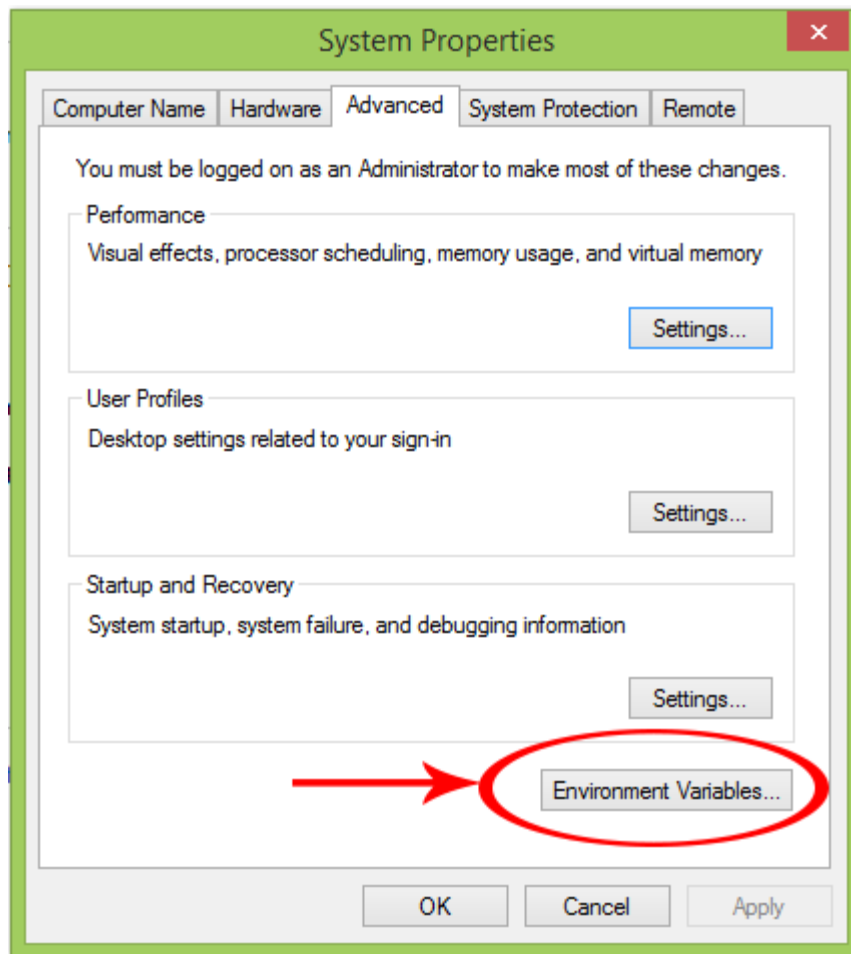
1. Right Click on My Computer.
2. Goto **Properties**.



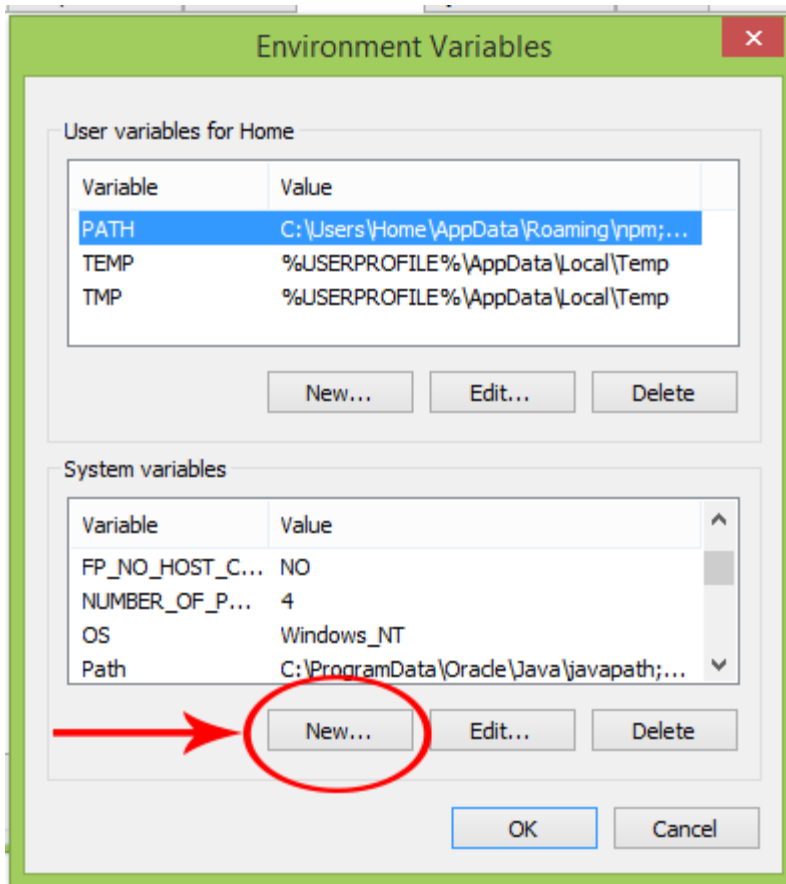
3. Click on **Advanced System Settings**.



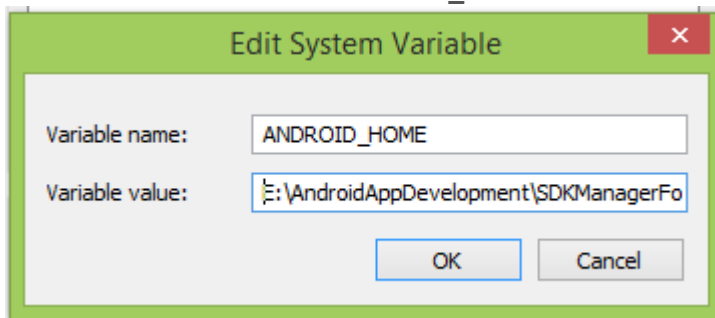
4. Click on **Environment Variables**.



5. Under System Variables click on New .



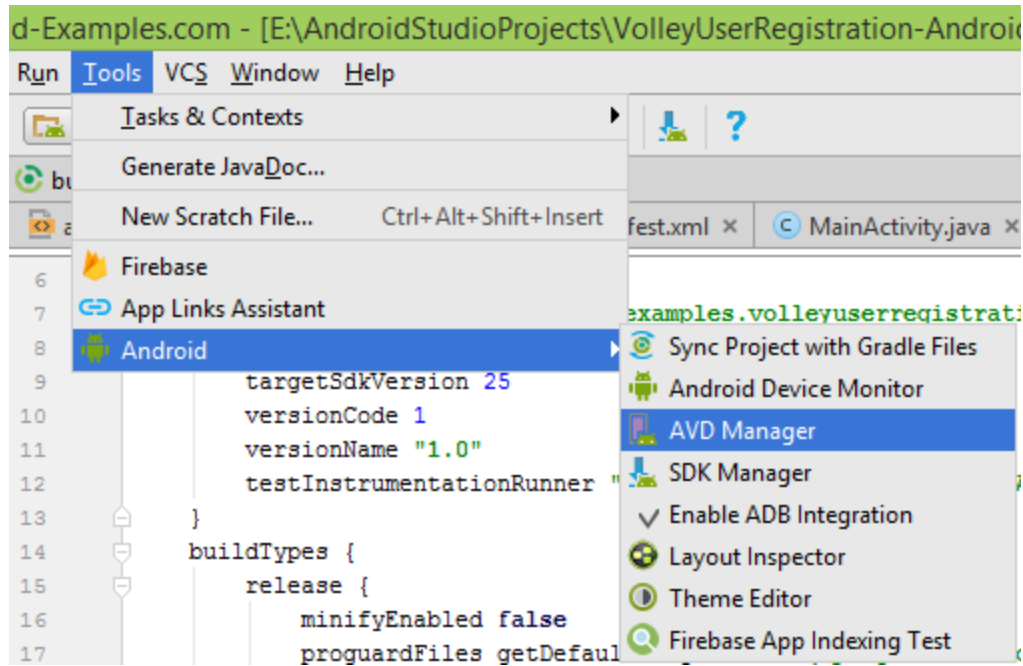
6. Set variable name as **ANDROID_HOME** and variable value as your **SDK Manager's Path**.



7. Here you go now your ANDROID_HOME variable has been successfully set.

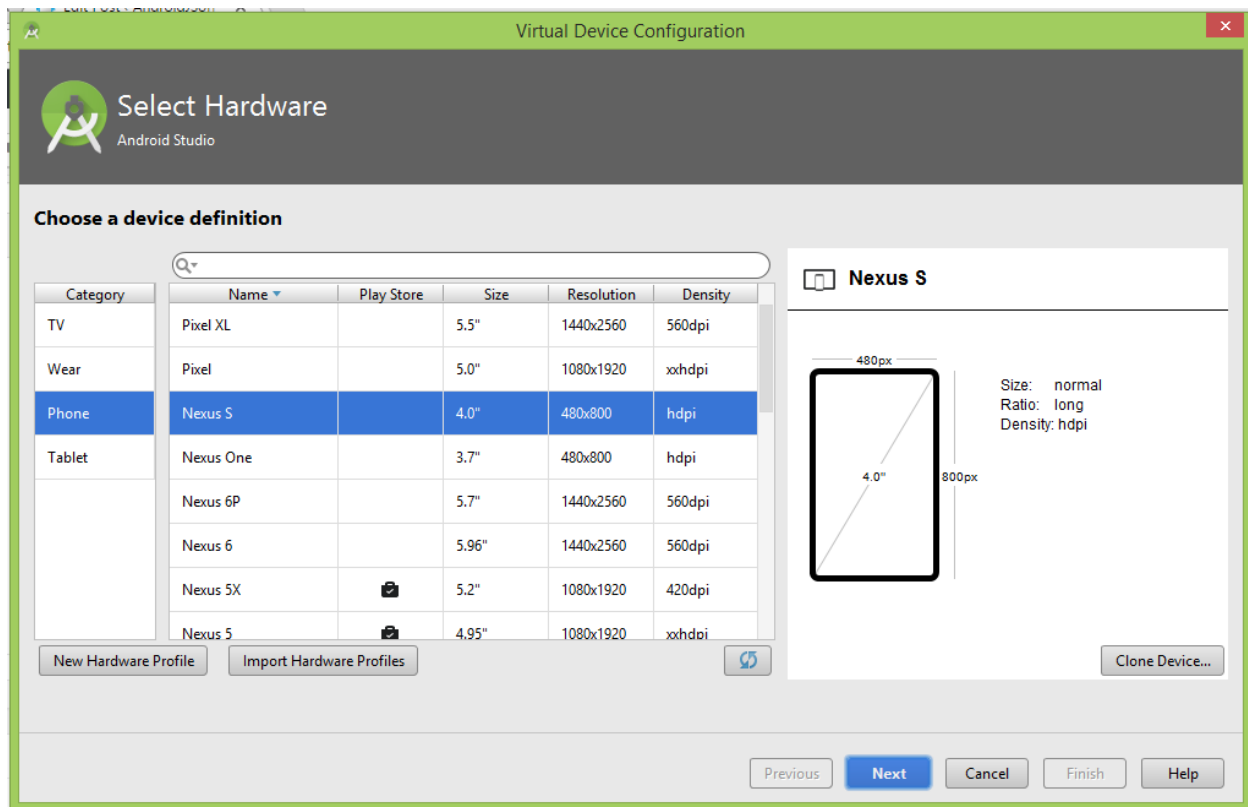
6. Start Android Virtual Device (AVD) :

1. Android virtual device is used to see the test result of our coding inside a virtual android machine just like a real android mobile phone. To setup AVD Open Android Studio -> Tools -> Android -> AVD Manager.

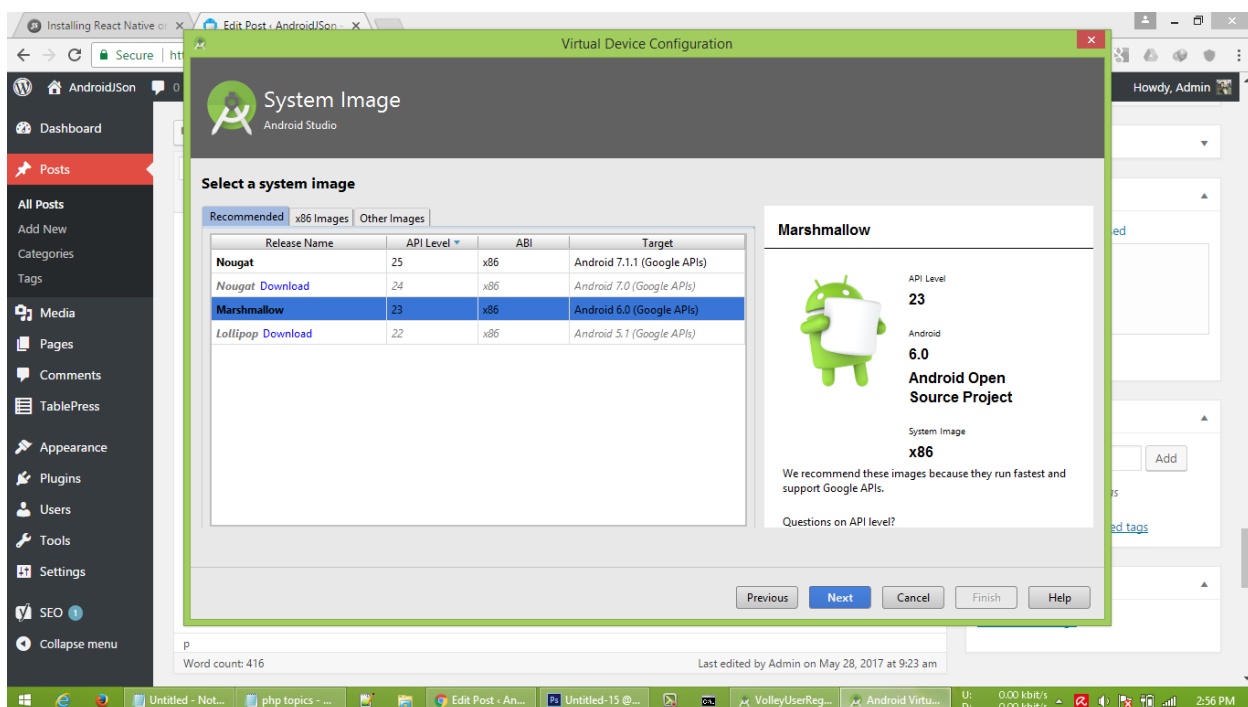


2. Click on **Create New Virtual Device**.

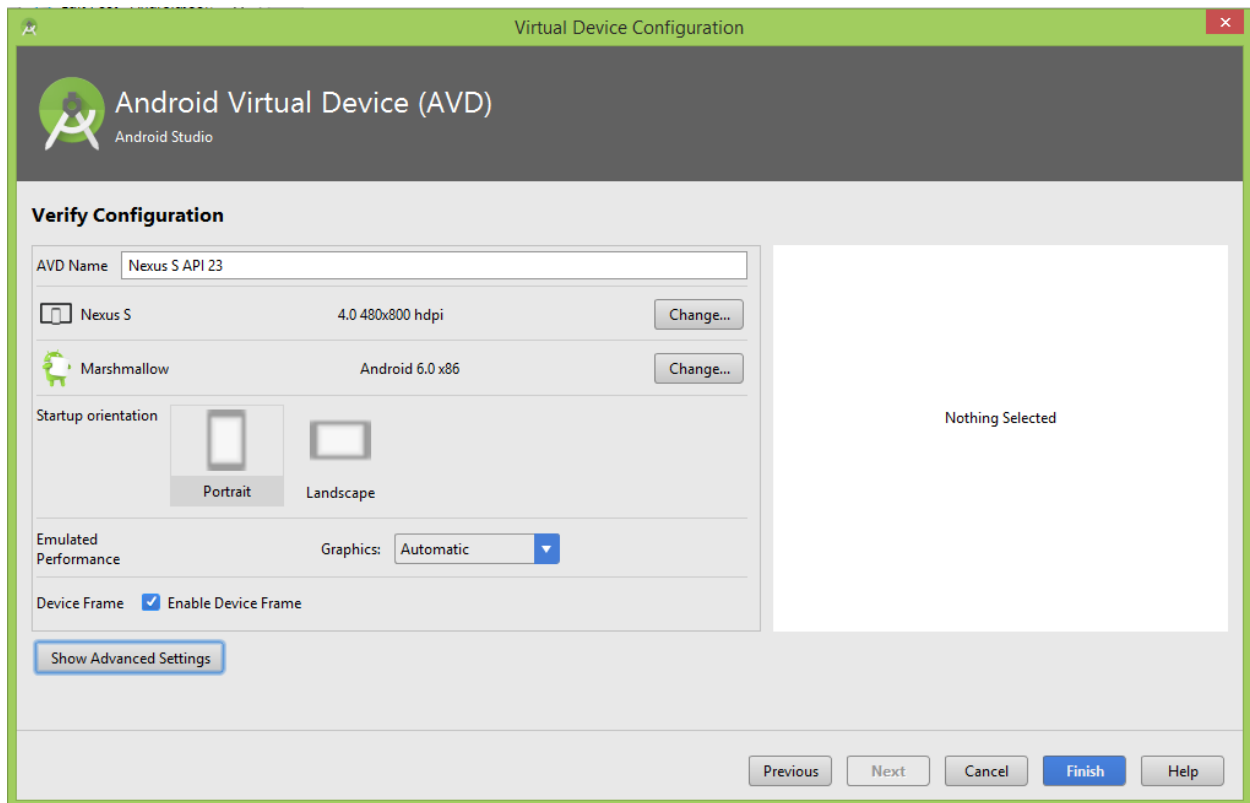
3. Select your device.



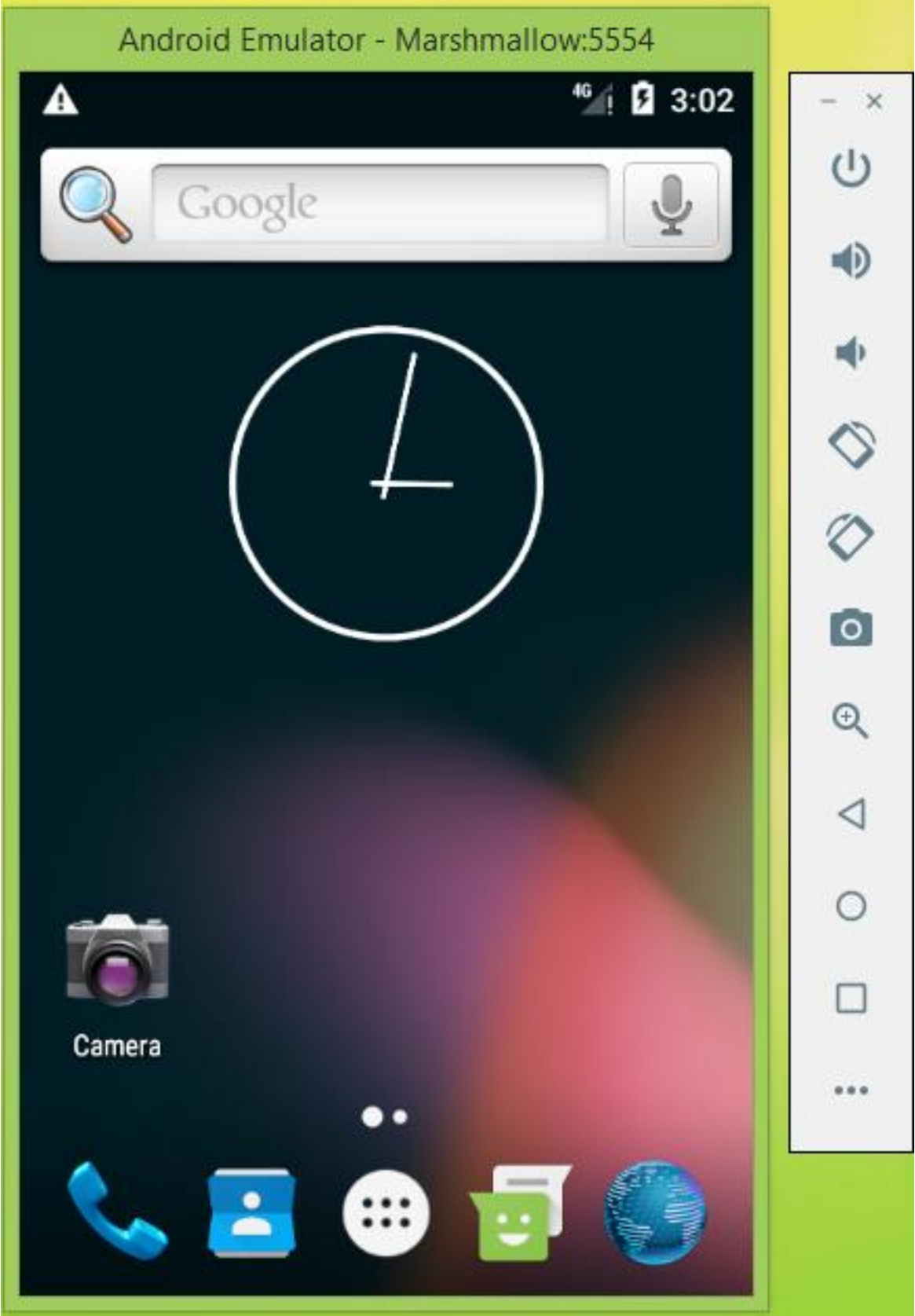
4. Select Android OS version System Image.



5. Name the AVD and hit the **Finish** button.

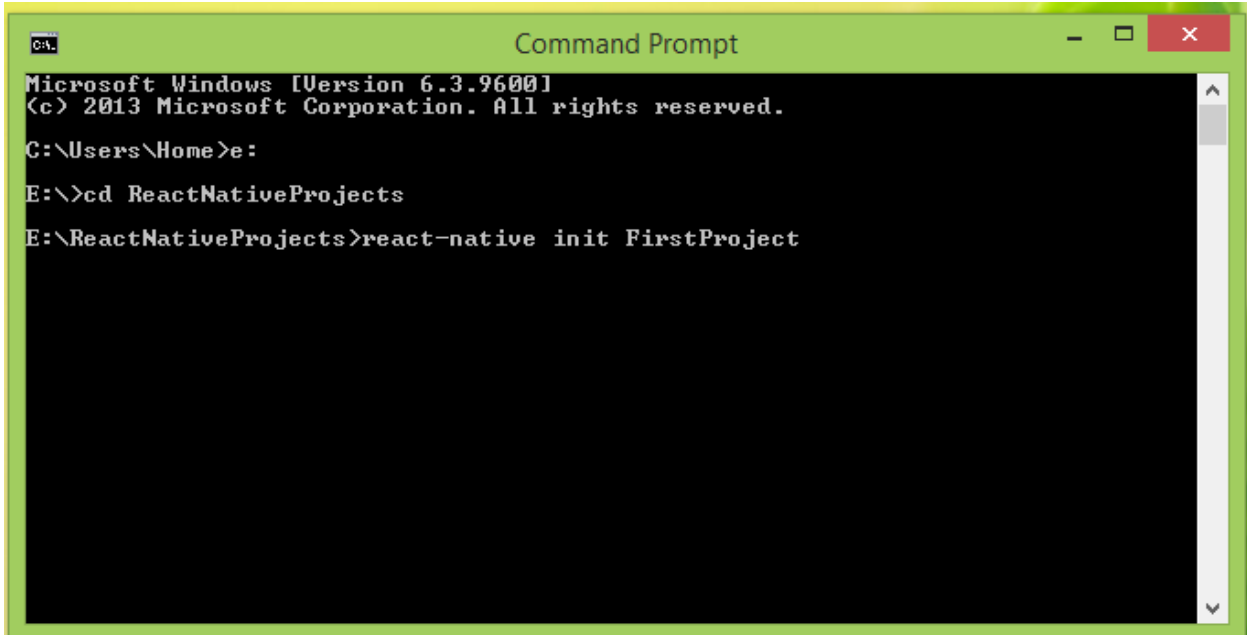


6. After done creating AVD just hit the Run button to start the AVD.



Step 7. Create your first React Native project :

1. Once you have finish all the installing than Create a folder in your drive in which you will store your all React Native projects. Than start command prompt and goto that folder inside command prompt. You can use **cd..** command to go back individually from folder to folder.
2. Now type **react-native init FirstProject** and press enter.



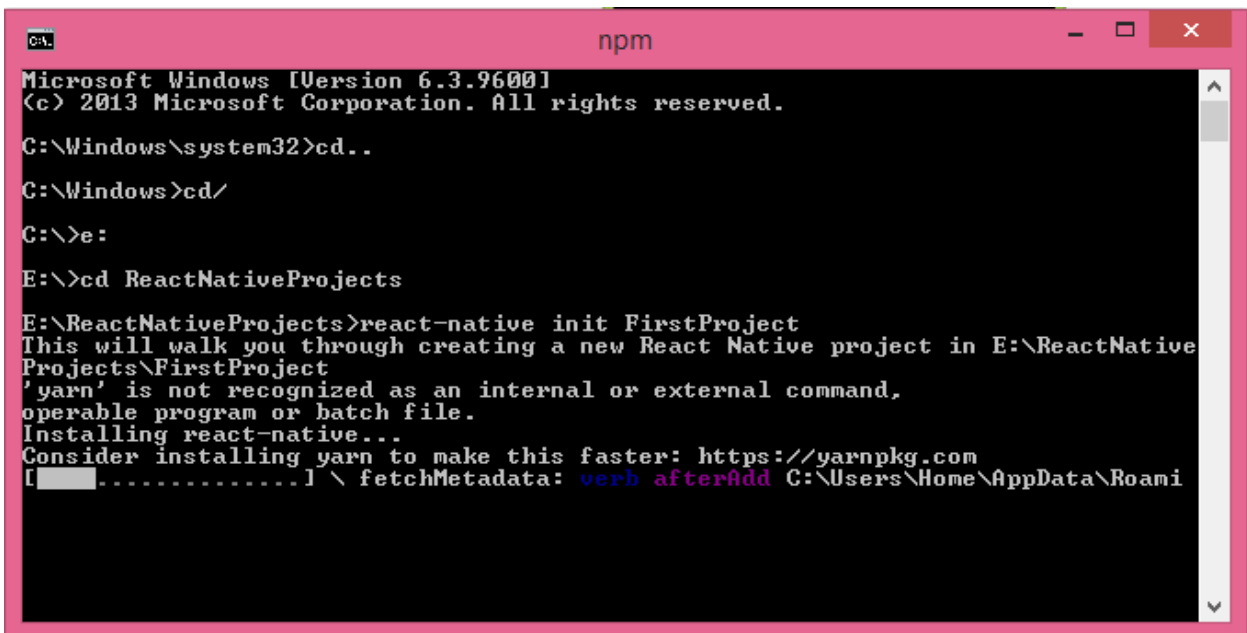
```
Command Prompt
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Users\Home>e:

E:\>cd ReactNativeProjects

E:\ReactNativeProjects>react-native init FirstProject
```

3. Now it will start downloading the React Native app support libraries from internet.



```
npm
Microsoft Windows [Version 6.3.9600]
(c) 2013 Microsoft Corporation. All rights reserved.

C:\Windows\system32>cd..

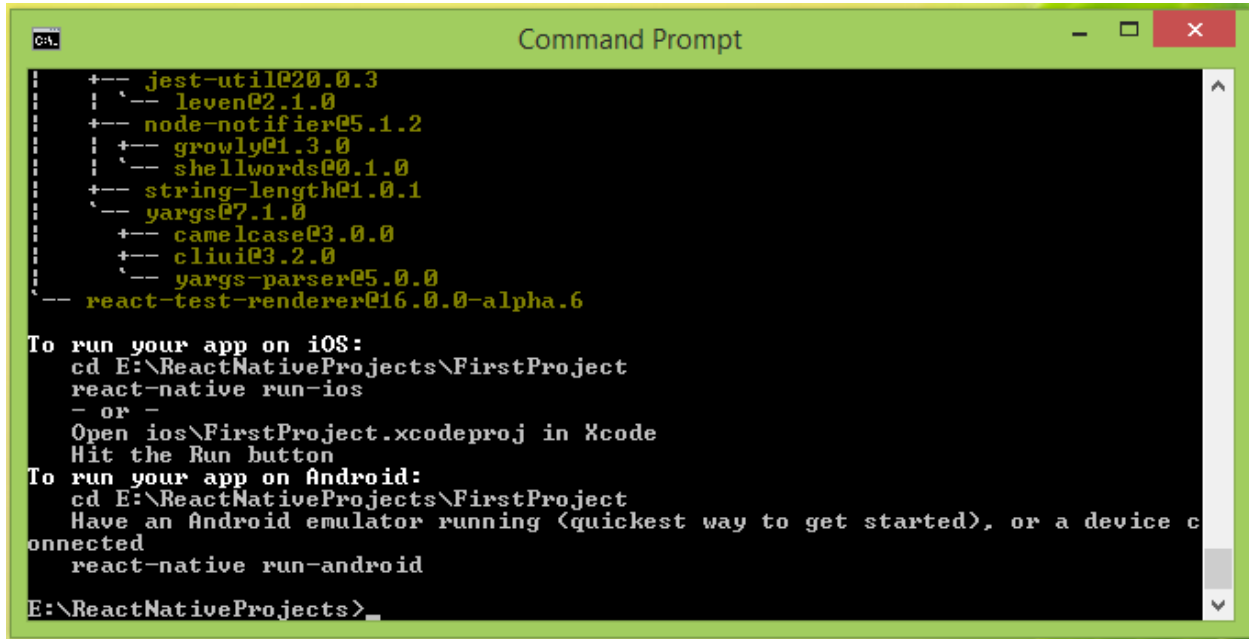
C:\Windows>cd/

C:\>e:

E:\>cd ReactNativeProjects

E:\ReactNativeProjects>react-native init FirstProject
This will walk you through creating a new React Native project in E:\ReactNative
Projects\FirstProject
'yarn' is not recognized as an internal or external command,
operable program or batch file.
Installing react-native...
Consider installing yarn to make this faster: https://yarnpkg.com
[.....] \ fetchMetadata: verb afterAdd C:\Users\Home\AppData\Roami
```

4. The final output will like below screenshot.



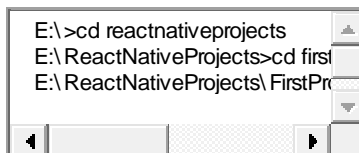
```

C:\>
+--- jest-util@20.0.3
+--- leven@2.1.0
+--- node-notifier@5.1.2
+--- growly@1.3.0
+--- shellwords@0.1.0
+--- string-length@1.0.1
+--- yargs@7.1.0
+--- camelcase@3.0.0
+--- cliui@3.2.0
+--- yargs-parser@5.0.0
+--- react-test-renderer@16.0.0-alpha.6

To run your app on iOS:
cd E:\ReactNativeProjects\FirstProject
react-native run-ios
- or -
Open ios\FirstProject.xcodeproj in Xcode
Hit the Run button
To run your app on Android:
cd E:\ReactNativeProjects\FirstProject
Have an Android emulator running (quickest way to get started), or a device c
onected
react-native run-android
E:\ReactNativeProjects>_

```

5. Now build the created app and run it into Android Emulator using below command.

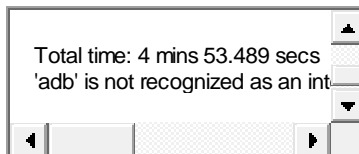


```

E:\>cd reactnativeprojects
E:\ReactNativeProjects>cd first
E:\ReactNativeProjects\FirstProject>

```

6. If your project build successfully then you can see a message on your command prompt screen **BUILD SUCCESSFUL** .



```

Total time: 4 mins 53.489 secs
'adb' is not recognized as an internal or external command,
operable program or batch file.

```

Here you go now you can see Your app is build successfully and run into Android emulator. Your emulator screenshot should look like this :



4G



5:05

Welcome to React Native!

To get started, edit `index.android.js`

Double tap R on your keyboard to reload,
Shake or press menu button for dev menu