

**LAPORAN HASIL PRAKTIKUM  
PEMPROGRAMAN WEB & MOBILE**



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**MODUL : V ( React Native )**

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## **BAB I**

### **TUJUAN DAN LANDASAN TEORI**

#### **A. TUJUAN**

- Mahasiswa mampu melakukan instalasi React Native pada perangkat laptop atau PC-nya masing-masing.
- Mahasiswa mampu membuat program sederhana menggunakan React Native.

#### **B. PEMBAHASAN**

React Native adalah framework yang digunakan untuk membuat mobile app di dua sistem operasi sekaligus, yaitu Android dan iOS. Untuk itulah, React Native disebut juga dengan cross-platform network karena Anda bisa membuat satu aplikasi yang bisa digunakan di berbagai platform, yaitu Android dan iOS.

Dalam membuat sebuah aplikasi, Anda perlu belajar bahasa pemrograman yang spesifik atau khusus (disebut juga dengan ‘Native’) untuk platform tersebut. Hal ini dikarenakan setiap sistem operasi memiliki bahasa pemrograman yang berbeda-beda. Untuk membuat aplikasi di Android, Anda butuh belajar bahasa pemrograman Java. Sedangkan untuk membuat aplikasi di iOS, Anda perlu belajar menggunakan bahasa pemrograman Objective C atau Swift. Namun dengan menggunakan React Native sebagai framework, Anda tidak perlu lagi melakukan hal spesifik tersebut.

Alih-alih menggunakan Java atau Objective C maupun Swift, Anda hanya butuh belajar bahasa pemrograman Javascript untuk bisa membuat aplikasi dengan menggunakan platform ini. Javascript sendiri biasa digunakan oleh para developer dalam membuat website. Jadi, dengan menggunakan platform ini, Anda hanya perlu membuat satu aplikasi. Anda tidak perlu lagi membuat banyak versi aplikasi yang compatible dengan sistem operasi yang ada.

##### **1. Kelebihan React Native**

Setelah mengetahui apa itu React Native, sekarang saatnya Anda mengetahui apa saja kelebihan yang ditawarkan React Native. Cross-platform framework ini memiliki banyak kelebihan, diantaranya yaitu :

a. Digunakan oleh Perusahaan-Perusahaan Besar

Meskipun tergolong framework baru, React Native tercatat telah digunakan oleh sejumlah perusahaan besar dalam membuat aplikasi. Sebut saja aplikasi Facebook, Instagram, Airbnb, dan Baidu. Nyatanya, React Native memang dikembangkan oleh tim Facebook untuk membuat aplikasi mobile.

b. Kode yang digunakan lebih simple

React Native lebih mudah dipelajari daripada 'Native'. Hal ini dikarenakan kode yang digunakan lebih simpel. Untuk Anda yang terbiasa dengan Javascript, menggunakan HTML, dan sejenisnya tentu akan merasa sangat familiar ketika dihadapkan dengan React Native. Selain kode yang digunakan lebih simpel, Anda tidak perlu lagi menguasai bahasa pemrograman lainnya demi bisa membuat aplikasi yang bisa berjalan di dua sistem operasi sekaligus.

c. Cocok untuk startup

Untuk perusahaan yang baru merintis, atau biasa disebut dengan start up, dan ingin mengembangkan aplikasi mobile, React Native bisa menjadi pilihan framework yang tepat. Karena perusahaan hanya perlu merekrut satu orang developer yang menguasai React Native dan bisa menghasilkan aplikasi yang bisa berjalan di dua sistem operasi sekaligus. Sayangnya, masih jarang developer yang menguasai framework ini.

d. Lebih hemat

Karena bisa merekrut satu orang untuk dua tugas sekaligus, perusahaan akan hemat dalam menggaji karyawan. Anggaran yang seharusnya digunakan untuk menggaji dua developer bisa dialihkan untuk kebutuhan lainnya yang tak kalah penting. Misalnya seperti untuk konten, marketing, atau produk activation yang tentu bakal membutuhkan banyak sumber daya.

## 2. Kelemahan React Native

### a. JavaScript yang Berkembang Sangat Cepat

JavaScript menjadi kelemahan dari React Native karena javascript berkembang begitu cepat sehingga efeknya menimbulkan beberapa hal tidak bisa dilakukan sesuai harapan.

### b. Framework

Sama seperti JavaScript, framework React Native juga menjadi kelemahan tersendiri karena perubahan yang begitu cepat terjadi.

### c. Platform

Sebagaimana kita ketahui, untuk bisa mengembangkan aplikasi mobile berbasis Ios maka developer juga harus menggunakan perangkat MAC OS karena sistem operasi ini eksklusif hanya tersedia di Mac, maka setidaknya Anda harus menyediakan Macbook.

### d. Performance

Manusia memang tidak akan pernah puas soal performa, sehingga saat ini masih ada perdebatan terkait kinerja React Native secara umum di kalangan developer. Nah, bagi Anda yang memiliki pendapat kurang tentu hal ini menjadi poin negatif soal kekurangan React Native.

## 3. Cara install react native di windows 10

### a. Install Chocolaty

Klik search, ketikkan “cmd” jika sudah muncul “Comamnd Prompt” klik kanan lalu “Run As Administrator” Jalankan perintah di bawah ini:

```
@ "%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex((NewObject System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))"&&SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"
```

Tunggu sampai proses selesai.

b. Install JDK, Node.JS, dan Phyton

Ketikkan perintah dibawah di CMD tadi

```
choco install -y nodejs.install python2 jdk8
```

Tunggu sampai selesai.

c. Install Android Studio

Jika sebelumnya sudah install android studio, bisa langsung ke step selanjutnya. Jika belum, silahkan download dan install softwarena pada link di bawah ini.

```
https://developer.android.com/studio/
```

d. Install Android SDK

Caranya, jalankan android studio, saat di halaman “Welcome to Android Studio” klik Menu Configure lalu pilih “SDK Manager”. Pilih Tab “SDK Platforms” pada SDK Manager, kemudian cek pada list Android 9.0 (Pie) dan Android 8.0 (Oreo). Kemudian cek “Show Package Details” yang ada di kanan bawah. Pastikan cek

- Android SDK Platform 28 & 26.
- Source for android 28 & 26.
- Intel x86 Atom\_64 System Image atau Google APIs Intel x86 Atom System Image

Kemudian pilih tab “SDK Tools” dan cek “Show Package Details” di kanan bawah. Cari “Android SDK Build-Tools”, pastikan bahwa 28.0.3 sudah di cek. Cek juga “Android Emulator, Android SDK Platform-Tools, Android SDK Tools”. Jika sudah, klik “Apply” lalu akan muncul popup info yang akan didownload ber GB, jika sudah yakin klik “OK”. Tunggu sampai proses download selesai ya.

e. Setup PATH environment variable

|  |       |   |
|--|-------|---|
| variable name : ANDROID_HOME                     |       |   |
| variable   | value | : |
| c:\Users\YOUR_USERNAME\AppData\Local\Android\Sdk |       |   |

c:\Users\YOUR\_USERNAME\AppData\Local\Android\Sdk\platform-tools

jika sudah muncul bisa lanjut ke tahap berikutnya, jika belum setting dulu HPnya yaa.

- i. Menjalankan react native app di HP

kembali ke CMD, ketik

```
cd ProjectSaya  
react-native run-android
```

Tunggu sampai selesai, lihat HP kalo ada aplikasi menanyakan izin instalasi, klik “Ijinkan”. Kalau error, cek errornya lalu dibenerin. Hehehe Kalau sukses, harusnya sudah muncul di HP.

- j. Edit Codingan App

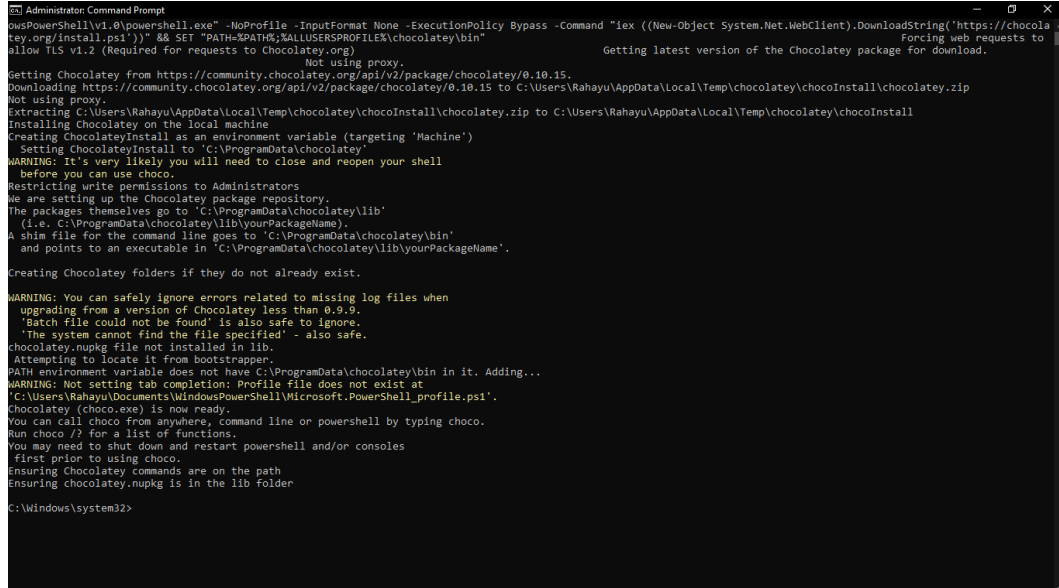
Setelah sukses menjalankan app, selanjutnya modifikasi isi programnya. Buka folder ProjectSaya dengan editor kesukaan (Sublime, Atom, Pspad, dll) Cari App.js, edit beberapa teks lalu save. Kembali ke HP, klik menu lalu “Reload”, lihat apa yang terjadi.

### **C. TUGAS PRAKTIKUM**

1. Menginstall React Native di windows 10.
2. Menjalankan React Native app di HP
3. Mengedit Coding App

## BAB II

### PEMBAHASAN



```
Administrator Command Prompt
owsPowerShell v1.0 powershell.exe -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"
allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
Getting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15.
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall
Installing Chocolatey on the local machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
Before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.
Creating Chocolatey folders if they do not already exist.
WARNING: You can safely ignore errors related to missing log files when
upgrading from a version of chocolatey less than 0.9.9.
'Batch file could not be found' is also safe to ignore.
'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\Rahayu\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line or powershell by typing choco.
Run choco ? for a list of functions.
You may need to shut down and restart powershell and/or consoles
first prior to using choco.
Ensuring Chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder
C:\Windows\system32>
```

**Gambar 1.1.** *Menginstall Chocolatey*

Gambar diatas adalah proses pengistallan chocolatey sebelum itu hal pertama yang perlu dilakukan membuka *CMD* dalam mode *Run Administrator* setelah itu kita dapat memasukkan perintah sesuai pada instruksi yang sudah diberikan, berikut adalah perintahnya.

```
@ "%SystemRoot%\System32\WindowsPowerShell\v1.0\powershell.exe" -
NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "iex ((New-
Object
System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" &&
SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"
```

Setelah itu tunggu proses penginstallan sampai selesai, penginstallan ini membutuhkan waktu yang lumayan lama, jika sudah selesai terinstal kita dapat melanjutkan langkah berikut nya yaitu pengistallan JDK, Node.JS, dan Phytion.



```
Administrator: Command Prompt
C:\Windows\system32>choco install -y nodejs.install python2 jdk8
Chocolatey v0.10.15
Installing the following packages:
nodejs.install;python2;jdk8
By installing you accept licenses for the packages.
Progress: Downloading nodejs.install 16.1.0... 100%

nodejs.install v16.1.0 [Approved]
nodejs.install package files install completed. Performing other installation steps.
Installing 64 bit version
Installing nodejs.install...
nodejs.install has been installed.
nodejs.install may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of nodejs.install was successful.
Software installed as 'msi', install location is likely default.
Progress: Downloading python2 2.7.18... 100%

python2 v2.7.18 [Approved]
python2 package files install completed. Performing other installation steps.
Installing 64-bit python2...
python2 has been installed.
Installed to 'C:\Python27'
Adding C:\Python27 to PATH if needed
python2 may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of python2 was successful.
Software installed as 'msi', install location is likely default.
Progress: Downloading jdk8 8.0.211... 100%

jdk8 v8.0.211 [Approved]
jdk8 package files install completed. Performing other installation steps.
Downloading JDK from https://java11.oracle.com/webapps/download/GetFile/1.8.0_211-b12/478a62b7d4e34b78b671c754eaf38ab/windows-1586/jdk-8u211-windows-x64.exe
Installing jdk8...
jdk8 has been installed.
PATH environment variable does not have C:\Program Files\Java\jdk1.8.0_211\bin in it. Adding...
jdk8 may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of jdk8 was successful.
Software installed to 'C:\Program Files\Java\jdk1.8.0_211\'
Chocolatey installed 3/3 packages.
```

**Gambar 1.2.** *Mengisntall JDK, Node.JS, dan Phytion.*

```
Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

Did you know the proceeds of Pro (and some proceeds from other
licensed editions) go into bettering the community infrastructure?
Your support ensures an active community, keeps Chocolatey tip top,
plus it nets you some awesome features!
https://chocolatey.org/compare

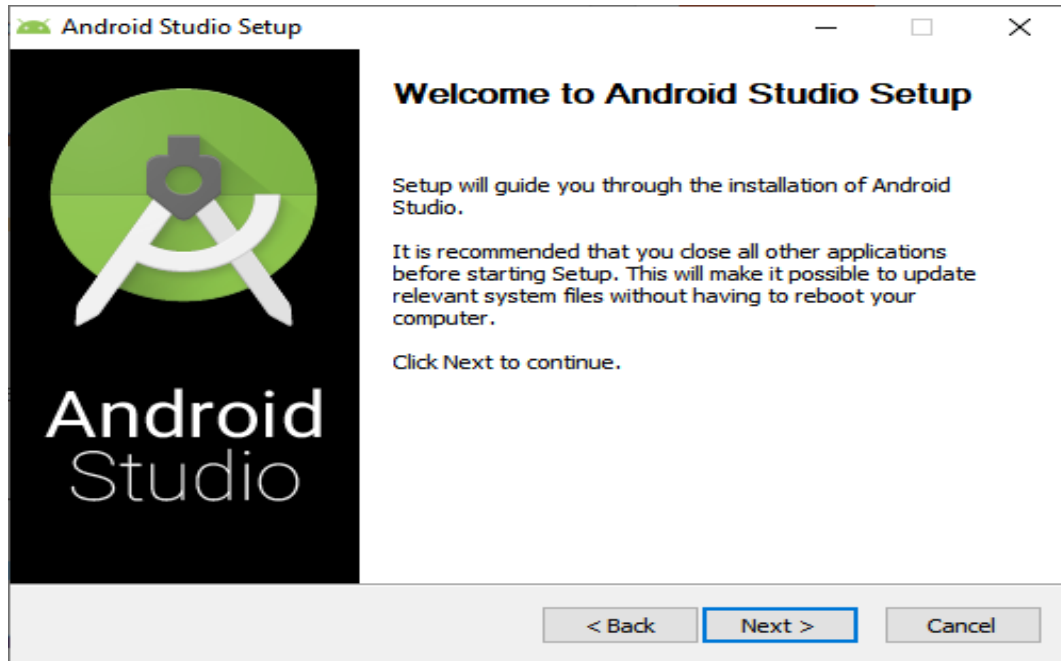
C:\Windows\system32>
```

**Gambar 1.3.** *Mengisntall JDK, Node.JS, dan Phytion(1).*

Gambar diatas merupakan proses pengistallan JDK, Node.JS dan Phytion. Cara pengistallan nya juga sama menggunakan CMD dan kita dapat mengetikkan perintah seperti berikut.

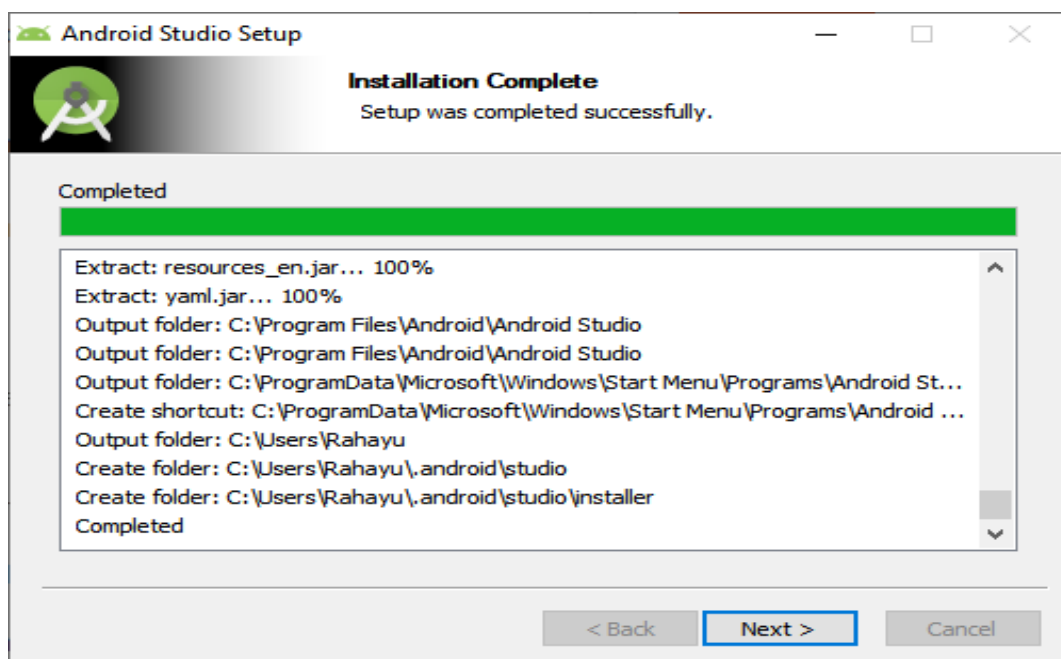
```
choco install -y nodejs.install python2 jdk8
```

Setelah itu tunggu proses penginstallan sampai selesai, pengistallan ini juga membutuhkan waktu yang lumayan lama, jika sudah selesai terinstal kita dapat melanjutkan langkah berikut nya yaitu penginstallan Android Studio.



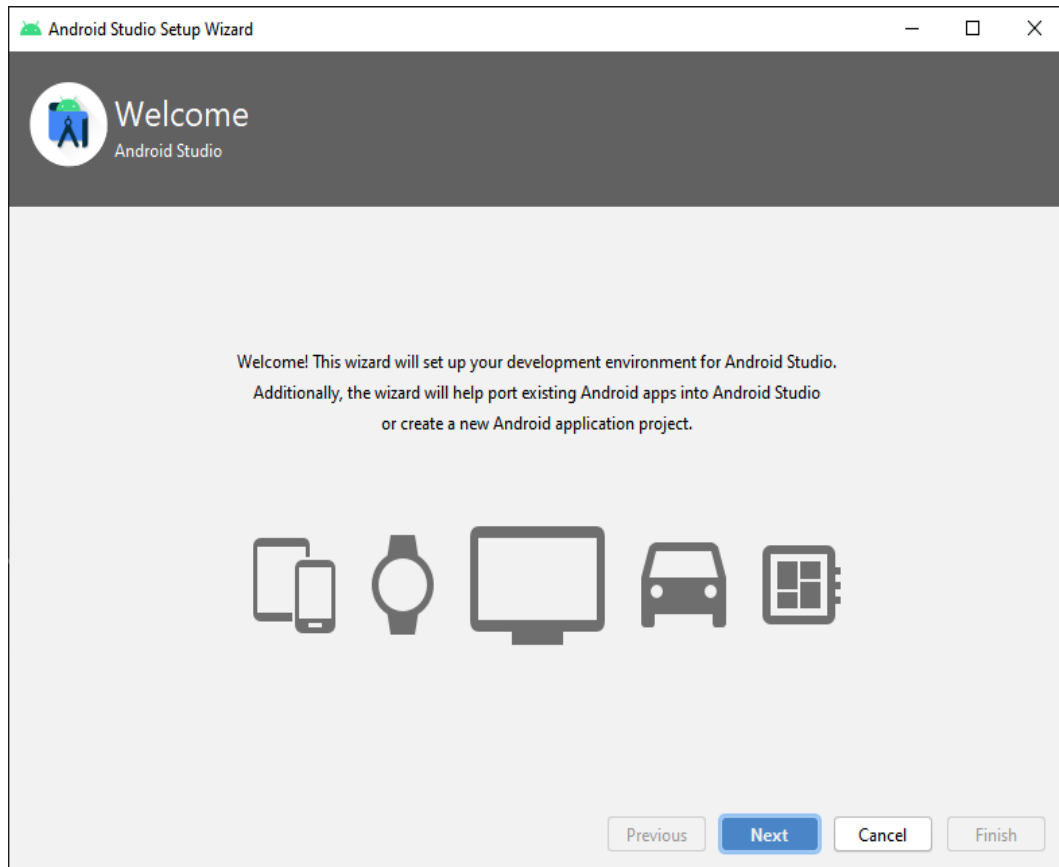
**Gambar 1.4.** *Proses Penginstallan Adroid Studio.*

Gambar diatas adalah penginstallan Android Studio yang mana berbeda seperti langkah langkah sebelumnya. Penginstall an Android Studio ini harus memiliki jaringan internet agar dapat mendownload nya pada browser. Berbeda dengan langkah sebelumnya hanya menggunakan CMD saja.



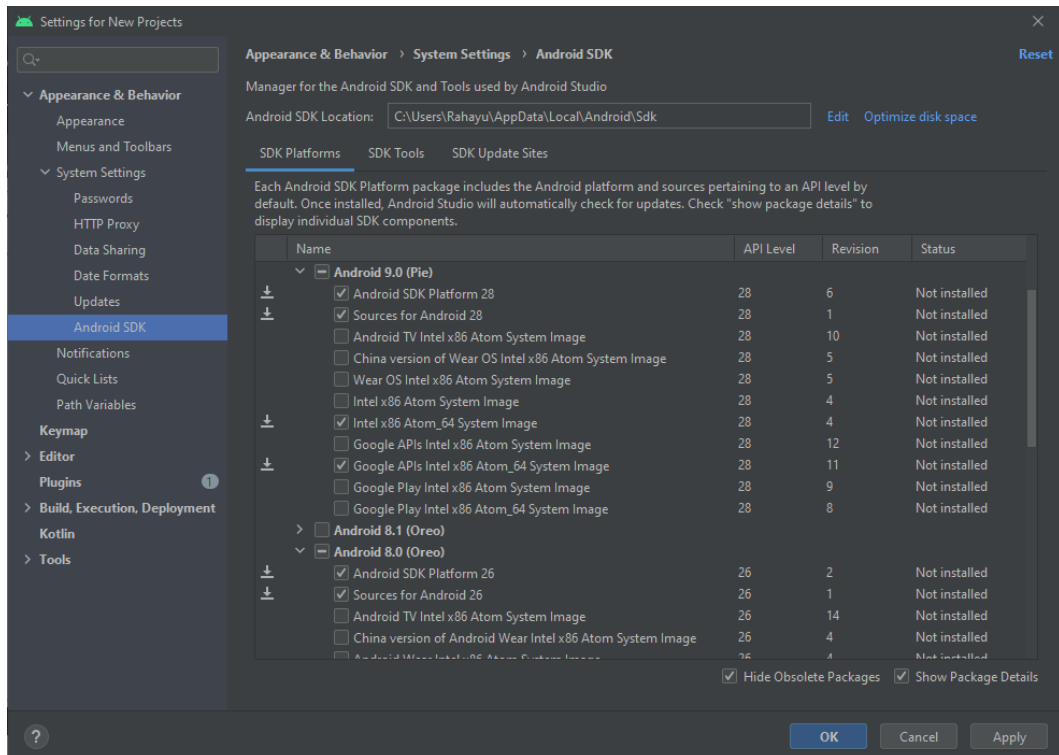
**Gambar 1.5.** *Penginstallan Sudah Selesai.*

Gambar diatas merupakan proses penginstallan Aplikasi Android Studio sudah berhasil di install di laptop atau PC. Jika sudah selesai maka aplikasi sudah dapat digunakan seperti gambar betikut.

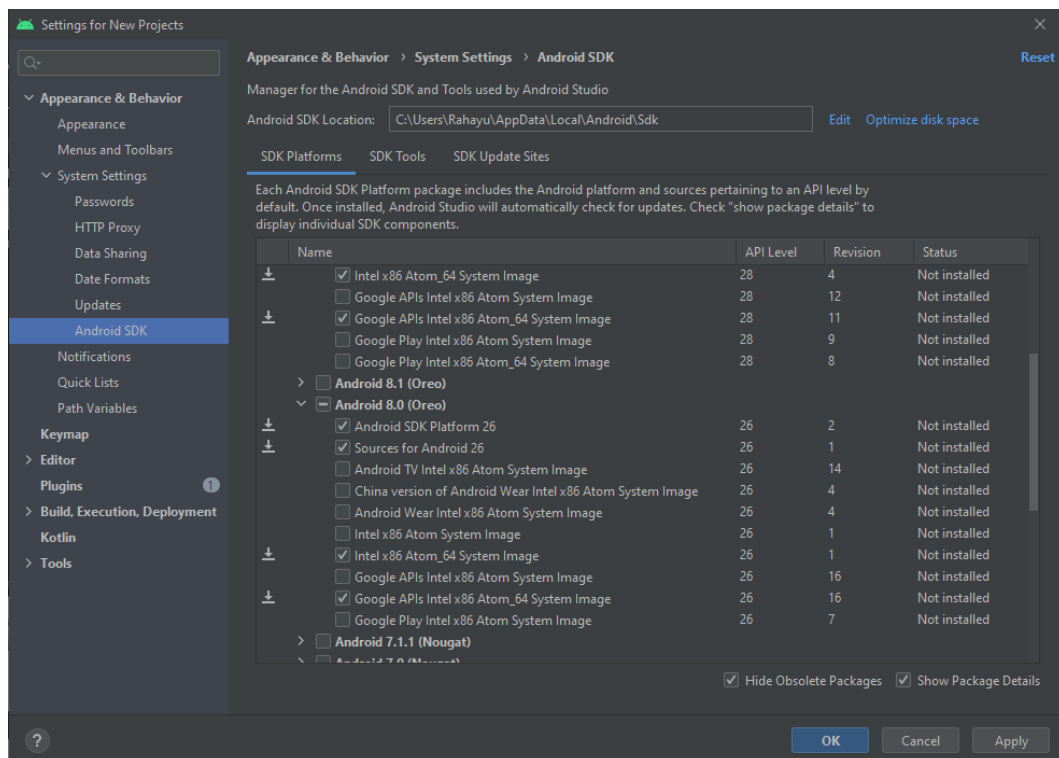


**Gambar 1.6.** *Tampilan Android Studio Berhasil diinstall.*

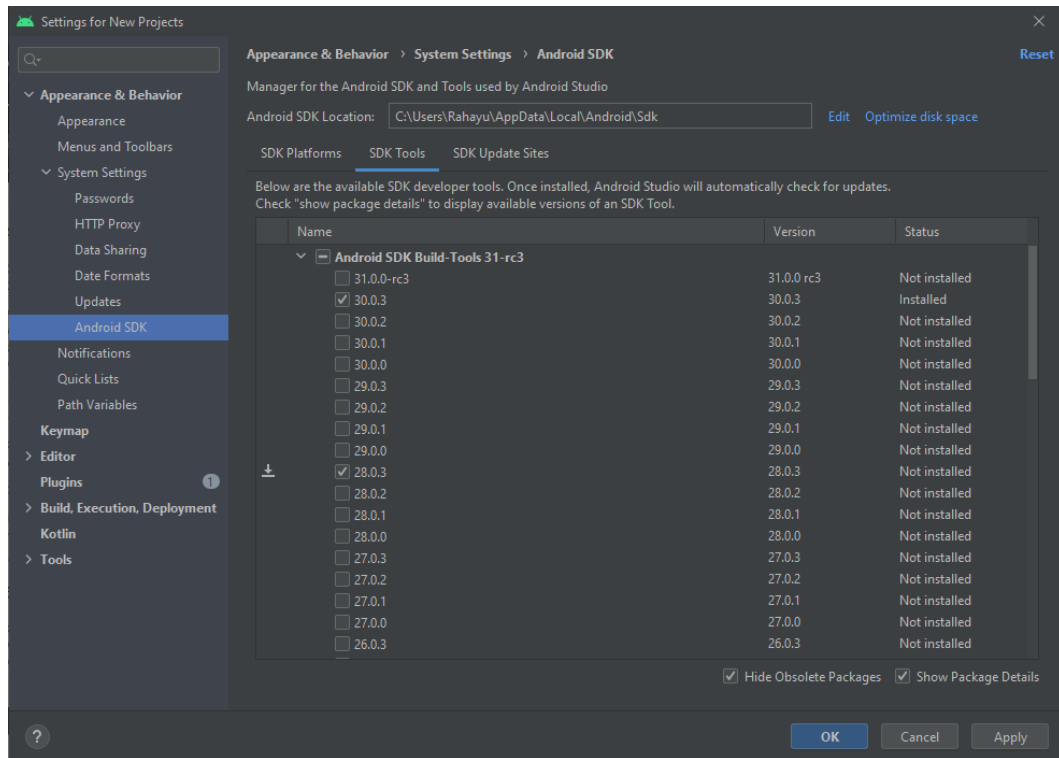
Gambar diatas adalah tampilan sudah berhasilnya penginstallan aplikasi Android Studio di laptop atau PC. Dan aplikasi siap digunakan.



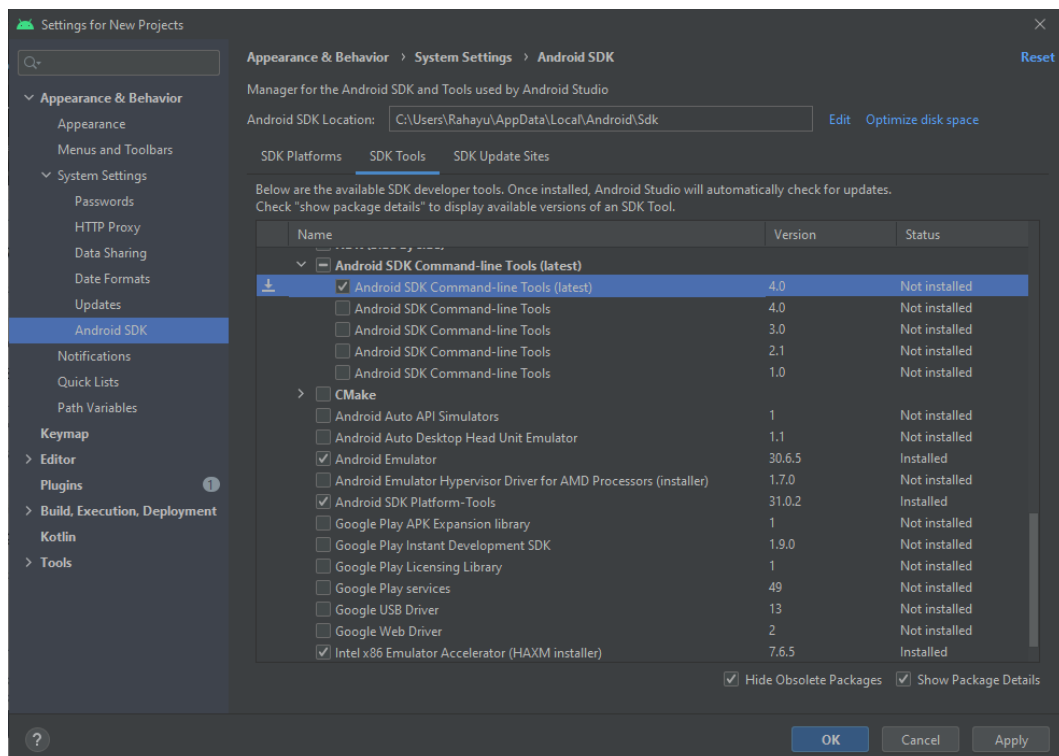
**Gambar 1.7.** *Install Android SDK.*



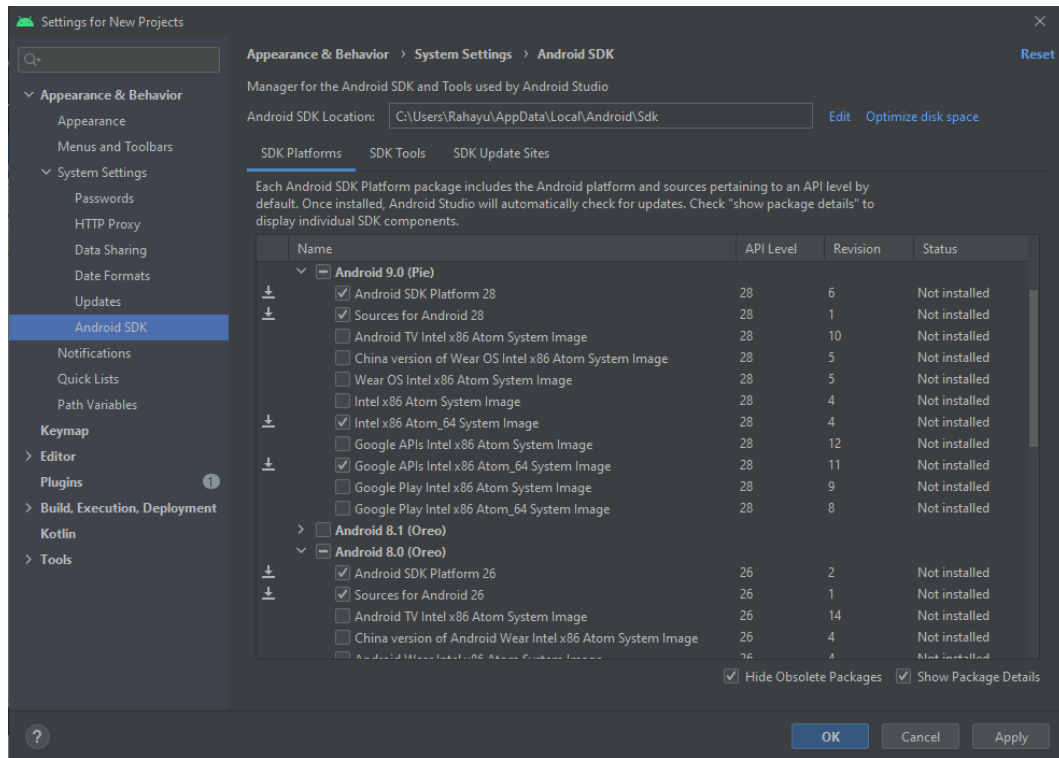
**Gambar 1.8.** *Install Android SDK(1).*



**Gambar 1.9.** *Install Android SDK(2).*

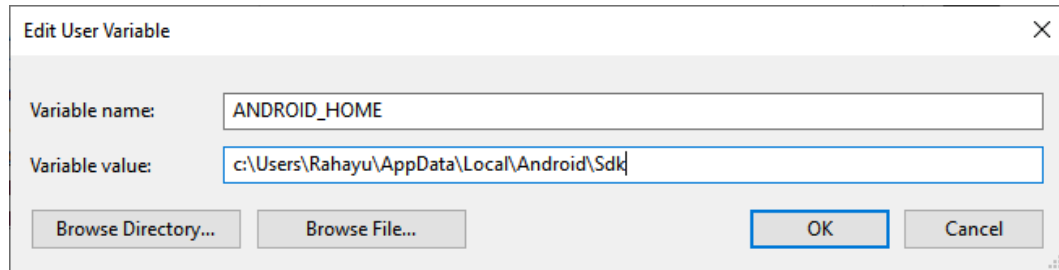


**Gambar 1.10.** *Install Android SDK(3).*

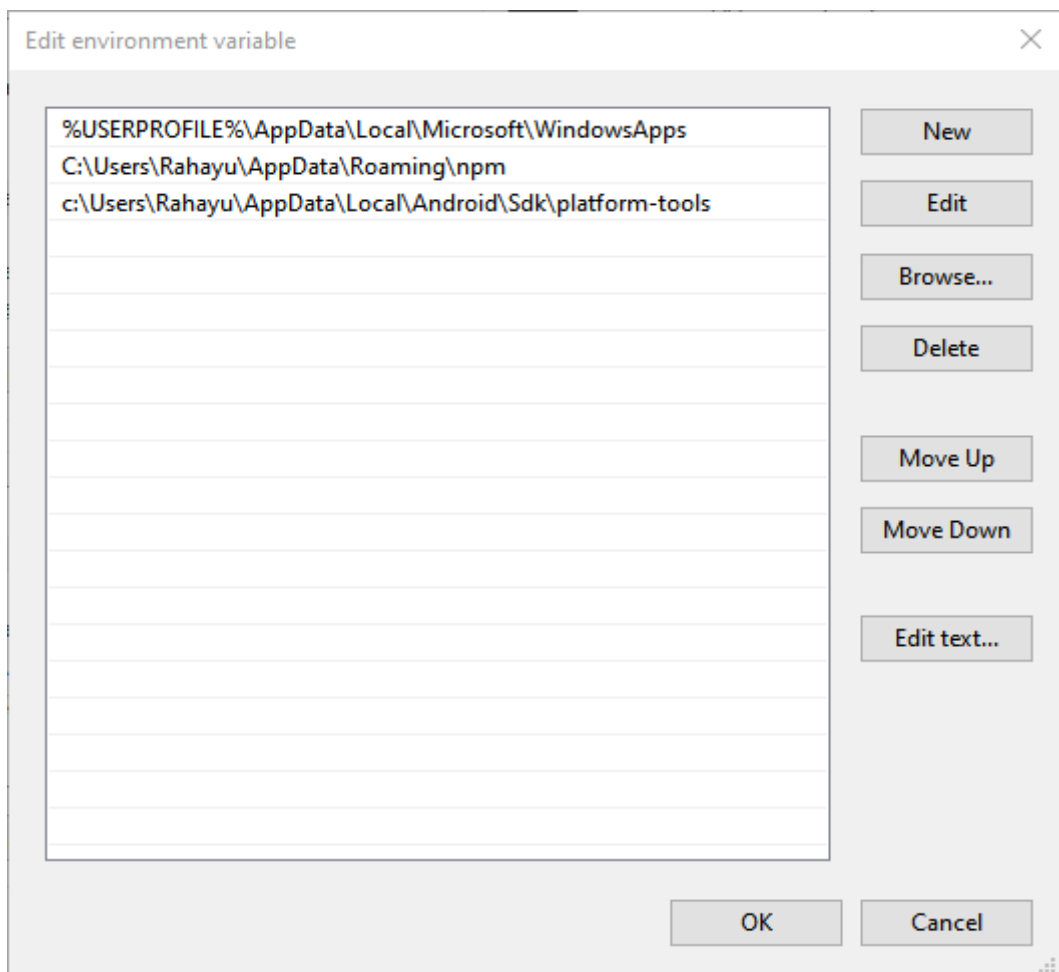


**Gambar 1.11. Install Android SDK(4).**

Gambar diatas adalah langkah ke empat yaitu menginstall Android SDK, pertama-tama buka aplikasi android studio yang sudah terinstall pada laptop atau pc. Lalu buka pada bagian android sdk, pilih SDK Platforms pada SDK Manager, kemudian cek pada list Android 9.0(Pie) dan Android 8.0(Oreo). Kemudian centang Show Package Detail pada bagian kanan bawah, untuk memastikan bahwa Android SDK Platform 28 & 26 cek juga Source For Android 28 & 26 kemudian Intel x86 Atom\_64 System Image atau Google APIs Intel x86 Atom System Image dan pilih tab “SDK Tools” dan cek “Show Package Details” di kanan bawah. Cari “Android SDK Build-Tools”, pastikan bahwa 28.0.3 sudah di cek jika sudah. Cek juga “Android Emulator, Android SDK Platform-Tools, Android SDK Tools”. Jika sudah, klik “Apply” lalu akan muncul popup info yang akan didownload ber GB, jika sudah yakin klik “OK”. Tunggu sampai proses pendownloadan akan memakan waktu begitu lama.



**Gambar 1.12.** *Setup PATH.*



**Gambar 1.13.** *Setup PATH(1).*

Gambar diatas merupakan langkah lanjutan dimana kita membuka pada pencarian ketikan “path” lalu klik “edit the system environment variables”. Lalu pada tab Pada tab “Advanced” klik “environment variable...” di kanan bawah. Pada “User variables”, klik “New” dan isikan seperti berikut.

variable name : ANDROID\_HOME

variable value : c:\Users\YOUR\_USERNAME\AppData\Local\Android\Sdk

Lalu ganti “YOUR\_USERNAME” sesuai yang ada di PC. Lanjut, klik variabel “path”, kemudian klik edit. Klik New lalu masukkan path platform-tools.

c:\Users\YOUR\_USERNAME\AppData\Local\Android\Sdk\platform-tools

Setelah selesai, klik “OK” “OK”.

```
Command Prompt
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Rahayu>npm install -g react-native-cli

changed 81 packages, and audited 82 packages in 1m

36 packages are looking for funding
  run 'npm fund' for details

Found 0 vulnerabilities

C:\Users\Rahayu>
```

**Gambar 1.14.** *Install React Native CLI.*

Gambar diatas adalah proses penginstalan react native cli, pertama-tama tutup cmd sebelumnya, lalu buka lagi cmd baru dengan mengetikan sebagai berikut.

npm install -g react-native-cli

Setelah itu tunggu proses penginstallan, jika sudah maka tampilan akan seperti pada gambar diatas.

```
C:\Windows\system32\cmd.exe

C:\Users\Rahayu>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Users\Rahayu\ProjectSaya
'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
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated uglify-es@3.3.9: support for ECMAScript is superseded by 'uglify-js' as of v3.13.0
added 718 packages, and audited 719 packages in 2m
19 packages are looking for funding
  run 'npm fund' for details
Found 0 vulnerabilities
info Setting up new React Native app in C:\Users\Rahayu\ProjectSaya
(node:13484) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
info Adding required dependencies
npm WARN deprecated request-promise-native@1.0.9: request-promise-native has been deprecated because it extends the now deprecated request package, see https://github.c
om/request/request/issues/3142
npm WARN deprecated har-validator@5.1.3: this library is no longer supported
npm WARN deprecated babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive updates.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
added 458 packages, and audited 1177 packages in 1m
71 packages are looking for funding
  run 'npm fund' for details
Found 0 vulnerabilities
info Adding required dev dependencies
up to date, audited 1177 packages in 11s
71 packages are looking for funding
  run 'npm fund' for details
Found 0 vulnerabilities

Run instructions for Android:
  • Have an Android emulator running (quickest way to get started), or a device connected.
  • cd "C:\Users\Rahayu\ProjectSaya" && npx react-native run-android

Run instructions for Windows:
  • See https://aka.ms/ReactNativeGuideWindows for the latest up-to-date instructions.
```

**Gambar 1.15.** *Membuat ProjectSaya.*



Gambar diatas merupakan langkah selanjutnya dimana kita mengetikan sebagai berikut.

```
react-native init ProjectSaya
```

Jika sudah maka akan seperti gambar diatas, proses ini memakan waktu cukup lama.

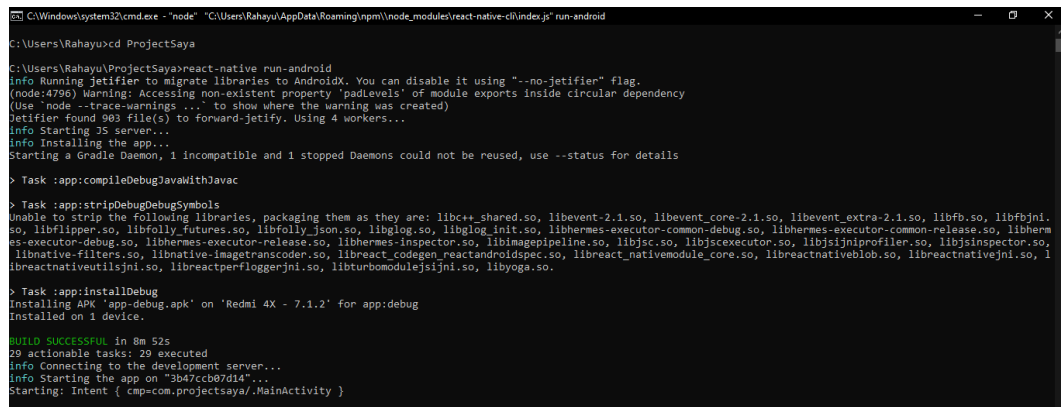


**Gambar 1.16.** *Setting adb devices.*

Gambar diatas merupakan langkah selanjutnya pertama-tama Tancapkan HP dengan kabel ke PC. Pastikan developer mode sudah aktif dan “USB Debugging” di aktifkan juga. Setelah itu cek di CMD apakah sudah terdeteksi dengan cara ketik sebagai berikut.

```
adb devices
```

Jika sudah muncul bisa lanjut ke tahap berikutnya, jika belum setting dulu HPnya



**Gambar 1.17.** *Menjalankan React Native app di HP.*

Gambar diatas adalah cd ProjectSaya dan react-native run-android. Tunggu sampai selesai, lihat HP kalo ada aplikasi menanyakan izin instalasi, klik “Ijinkan”. Kalau error, cek errornya lalu dibenerin. Kalau sukses, harusnya sudah muncul di HP. Seperti pada gambar dibawah.



## Step One

Edit **App.js** to change this screen and then come back to see your edits.

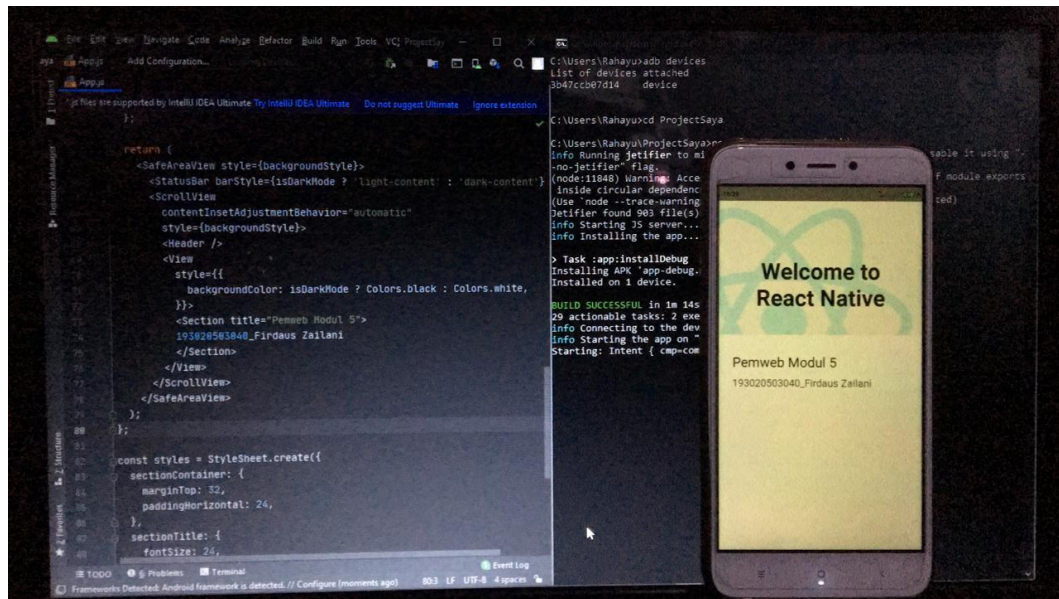
## See Your Changes

Double tap **R** on your keyboard to reload your app's code.

## Debug

Press **Cmd or Ctrl + M** or **Shake** your device to open the React Native debug menu.

**Gambar 1.18.** *React Native app di HP Berhasil Terhubung.*



**Gambar 1.19.** *Sesudah Edit Coding dan Tampilan Pada HP.*

Gambar diatas adalah langkah terakhir yaitu mengedit coding agar tampilan pada hp muncul seperti gambar diatas.

### **BAB III**

### **KESIMPULAN**

React Native adalah salah satu topik hangat di bidang mobile development selama beberapa tahun terakhir. Salah satu alasan mengapa React Native sangat populer karena menawarkan cara untuk mengembangkan mobile app atau aplikasi selular dengan mudah. Membuat sebuah aplikasi selular bukanlah hal mudah karena membutuhkan coding khusus yang pengembangannya memerlukan waktu lama. Namun, React Native berhasil membawa perubahan. Bahkan, framework itu dapat membantu pengembang untuk membuat aplikasi Android dan iOS dengan lebih cepat dan mudah.

## DAFTAR PUSTAKA

Andy. 2020. *Apa itu React Native dan Kenapa Cocok Digunakan untuk Perusahaan Anda?*. <https://qwords.com/blog/apa-itu-react-native/>. ( Diakses Pada Tanggal 12 Mei 2021 Pukul 2:31 WIB ).

Rasupe. 2019. *Cara install react native di windows 10*. <https://rasupe.com/cara-install-react-native-di-windows-10/>. ( Diakses Pada Tanggal 12 Mei 2021 Pukul 3:31 WIB ).

## LAMPIRAN

```
Administrator: Command Prompt
powershell [v1.0]powershell.exe" -NoProfile -InputFormat None -ExecutionPolicy Bypass -Command "Iex ((New-Object System.Net.WebClient).DownloadString('https://chocolatey.org/install.ps1'))" && SET "PATH=%PATH%;%ALLUSERSPROFILE%\chocolatey\bin"
allow TLS v1.2 (Required for requests to Chocolatey.org)
Getting latest version of the Chocolatey package for download.
Not using proxy.
Getting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15.
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\Rahayu\AppData\Local\Temp\chocolatey\chocoInstall
Installing Chocolatey on the local machine
Creating ChocolateyInstall as an environment variable (targeting 'Machine')
Setting ChocolateyInstall to 'C:\ProgramData\chocolatey'
WARNING: It's very likely you will need to close and reopen your shell
before you can use choco.
Restricting write permissions to Administrators
We are setting up the Chocolatey package repository.
The packages themselves go to 'C:\ProgramData\chocolatey\lib'
(i.e. C:\ProgramData\chocolatey\lib\yourPackageName).
A shim file for the command line goes to 'C:\ProgramData\chocolatey\bin'
and points to an executable in 'C:\ProgramData\chocolatey\lib\yourPackageName'.
Creating Chocolatey folders if they do not already exist.

WARNING: You can safely ignore errors related to missing log files when
upgrading from a version of Chocolatey less than 0.9.9.
'Batch file could not be found' is also safe to ignore.
'The system cannot find the file specified' - also safe.
chocolatey.nupkg file not installed in lib.
Attempting to locate it from bootstrapper.
PATH environment variable does not have C:\ProgramData\chocolatey\bin in it. Adding...
WARNING: Not setting tab completion: Profile file does not exist at
'C:\Users\Rahayu\Documents\WindowsPowerShell\Microsoft.PowerShell_profile.ps1'.
Chocolatey (choco.exe) is now ready.
You can call choco from anywhere, command line on powershell by typing choco.
Run choco /? for a list of functions.
You may need to shut down and restart powershell and/or consoles
first prior to using choco.
Ensuring Chocolatey commands are on the path
Ensuring chocolatey.nupkg is in the lib folder

C:\Windows\system32>
```

**Gambar 1.1.** *Menginstall Chocolaty*

```
Administrator: Command Prompt
C:\Windows\system32>choco install -y nodejs.install python2 jdk8
Chocolatey v0.10.15
Installing the following packages:
nodejs.install;python2;jdk8
By installing you accept licenses for the packages.
Progress: Downloading nodejs.install 16.1.0... 100%

nodejs.install v16.1.0 [Approved]
nodejs.install package files install completed. Performing other installation steps.
Installing 64 bit version
Installing nodejs.install...
nodejs.install has been installed.
nodejs.install may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of nodejs.install was successful.
Software installed as 'msi', install location is likely default.
Progress: Downloading python2 2.7.18... 100%

python2 v2.7.18 [Approved]
python2 package files install completed. Performing other installation steps.
Installing 64-bit python2...
python2 has been installed.
Installed to 'C:\Python27'
Adding C:\Python27 to PATH if needed
python2 may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of python2 was successful.
Software installed as 'msi', install location is likely default.
Progress: Downloading jdk8 8.0.211... 100%

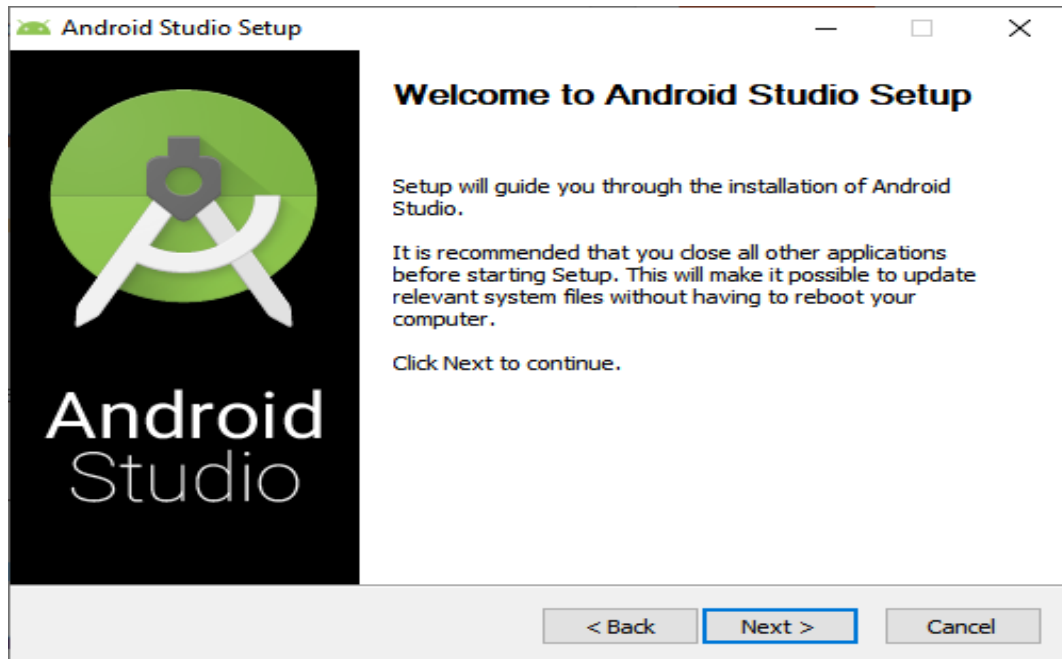
jdk8 v8.0.211 [Approved]
jdk8 package files install completed. Performing other installation steps.
Downloading JDK from https://java1.oracle.com/webapps/download/GetFile/1.8.0_211-b12/478a62b7d4e34b78b671c754eaa38ab/windows-1586/jdk-8u211-windows-x64.exe
Installing jdk8...
jdk8 has been installed.
PATH environment variable does not have C:\Program Files\Java\jdk1.8.0_211\bin in it. Adding...
jdk8 may be able to be automatically uninstalled.
Environment Vars (like PATH) have changed. Close/reopen your shell to
see the changes (or in powershell/cmd.exe just type 'refreshenv').
The install of jdk8 was successful.
Software installed to 'C:\Program Files\Java\jdk1.8.0_211\'

Chocolatey installed 3/3 packages.
```

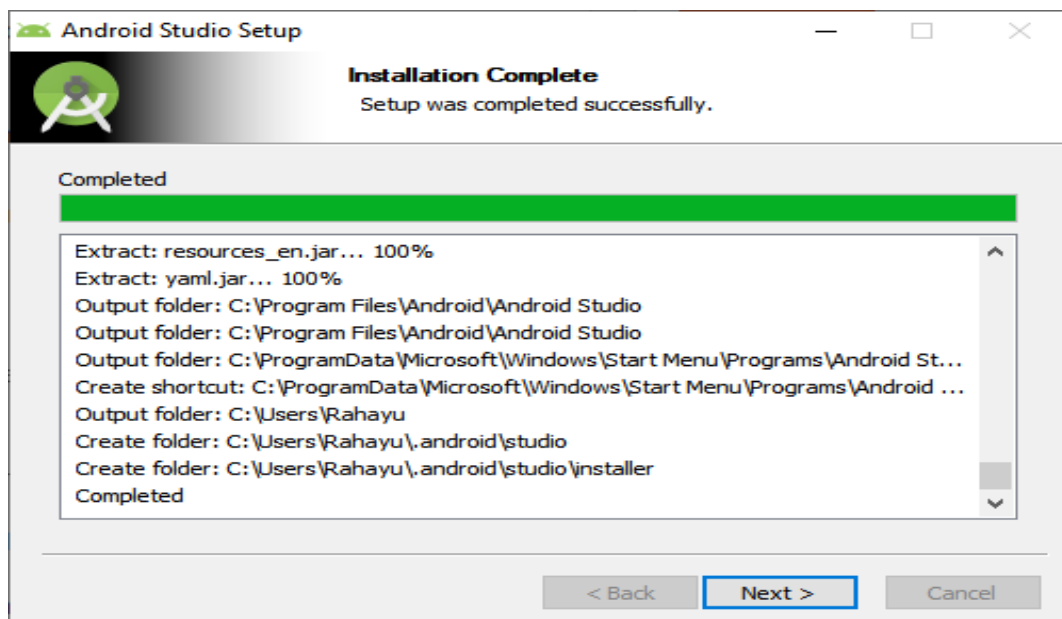
**Gambar 1.2.** *Mengisntall JDK, Node.JS, dan Phytion.*

```
Chocolatey installed 3/3 packages.  
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).  
  
Did you know the proceeds of Pro (and some proceeds from other  
licensed editions) go into bettering the community infrastructure?  
Your support ensures an active community, keeps Chocolatey tip top,  
plus it nets you some awesome features!  
https://chocolatey.org/compare  
  
C:\Windows\system32>
```

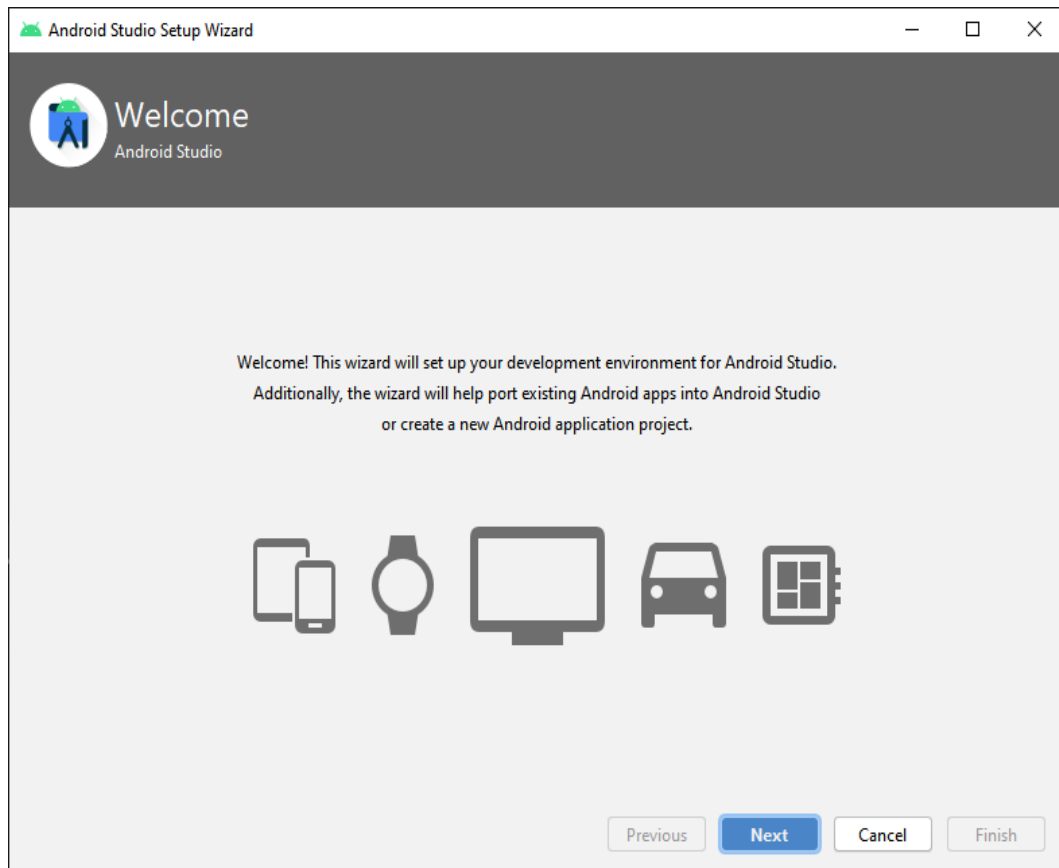
**Gambar 1.3.** *Mengisntall JDK, Node.JS, dan Phython(1).*



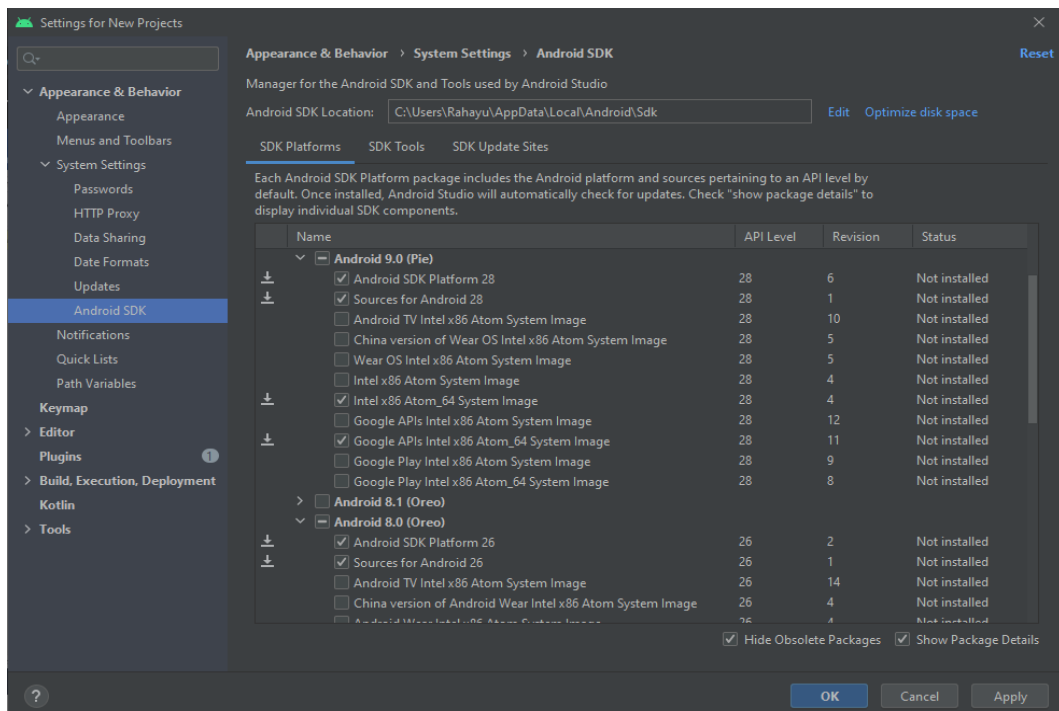
**Gambar 1.4.** *Proses Penginstallan Adroid Studio.*



**Gambar 1.5.** *Penginstallan Sudah Selesai.*

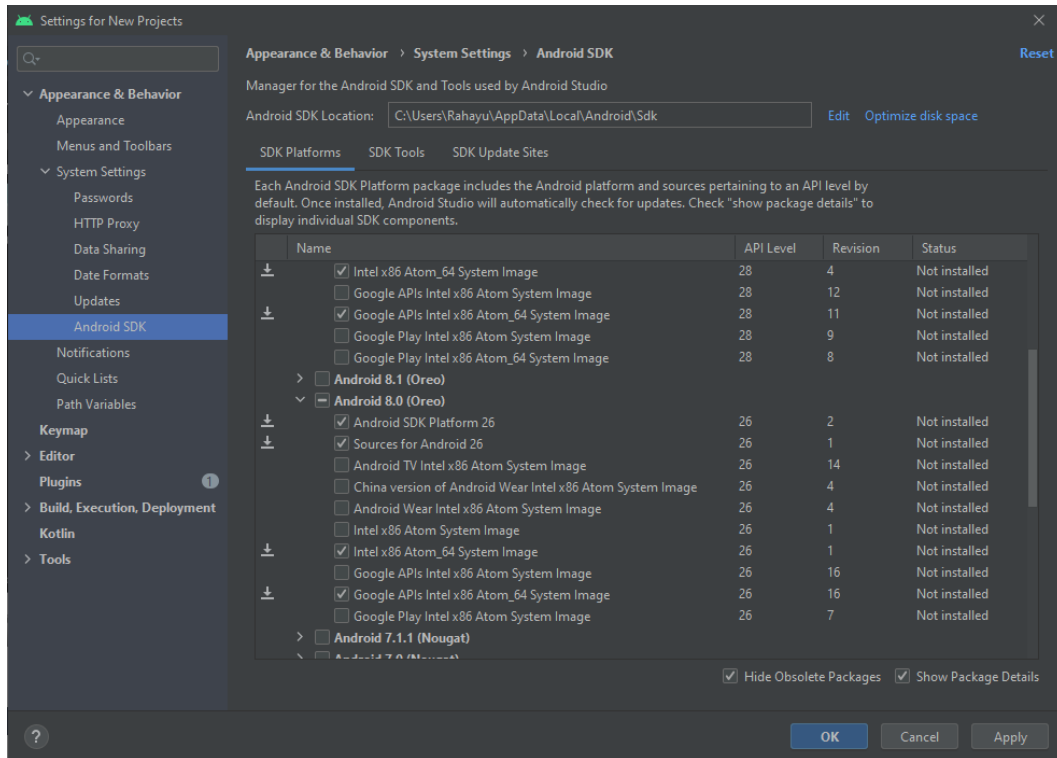


**Gambar 1.6.** Tampilan Android Studio Berhasil diinstall.

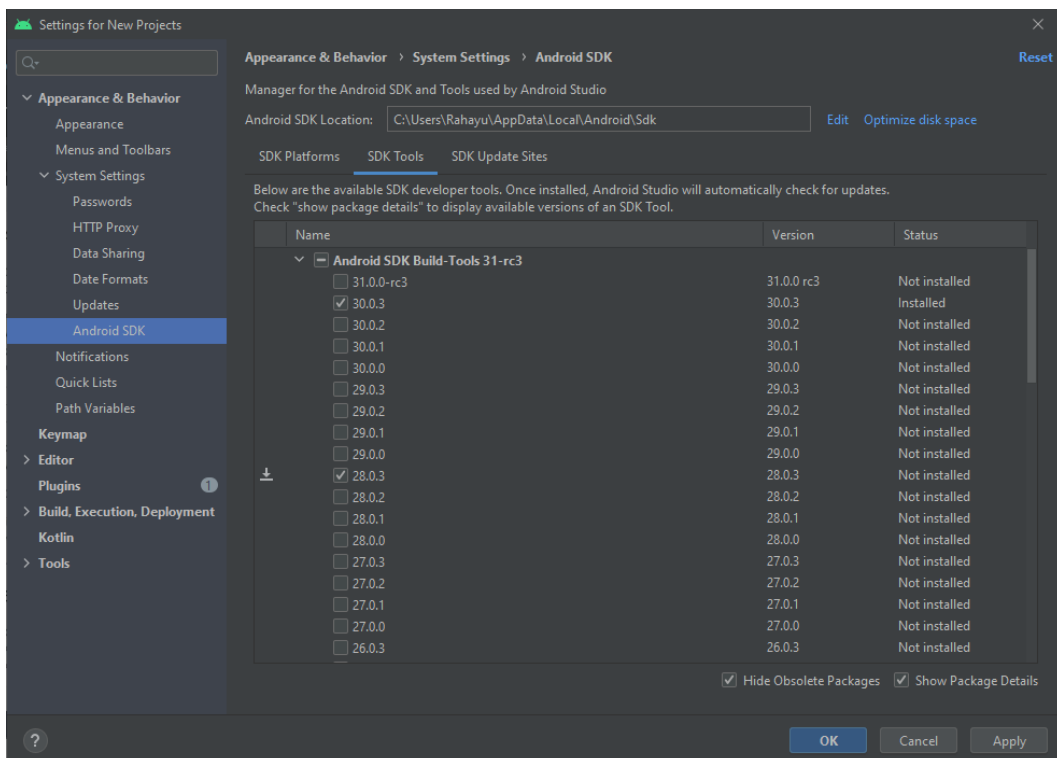


**Gambar 1.7.** Install Android SDK.

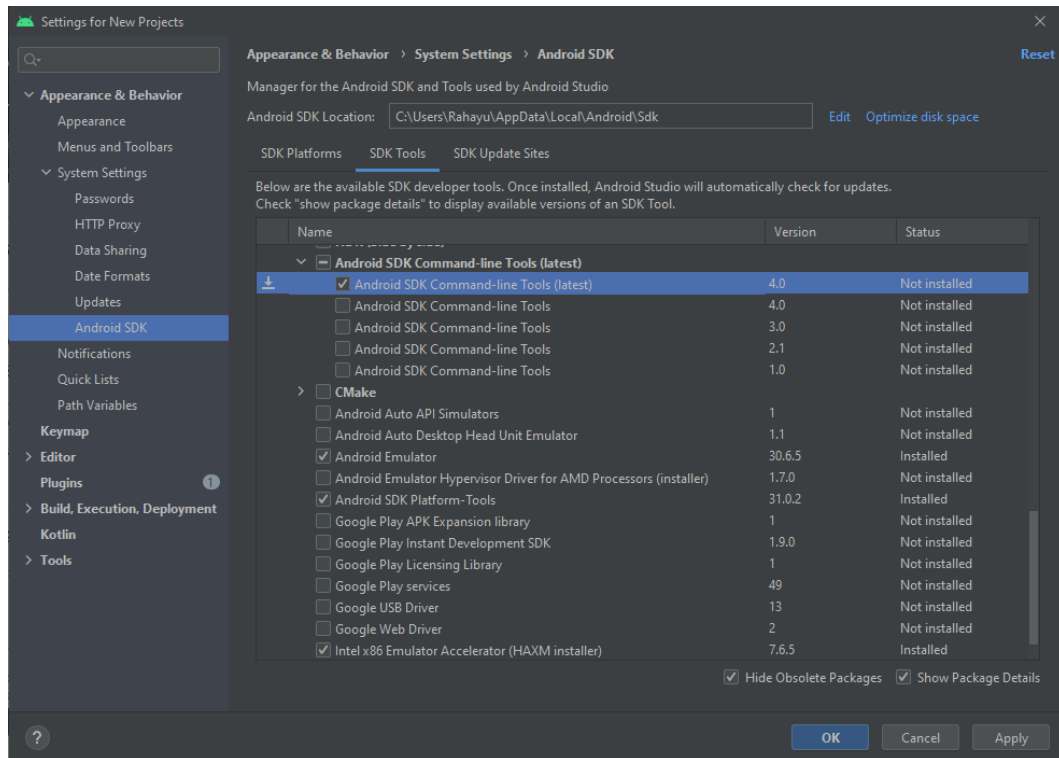




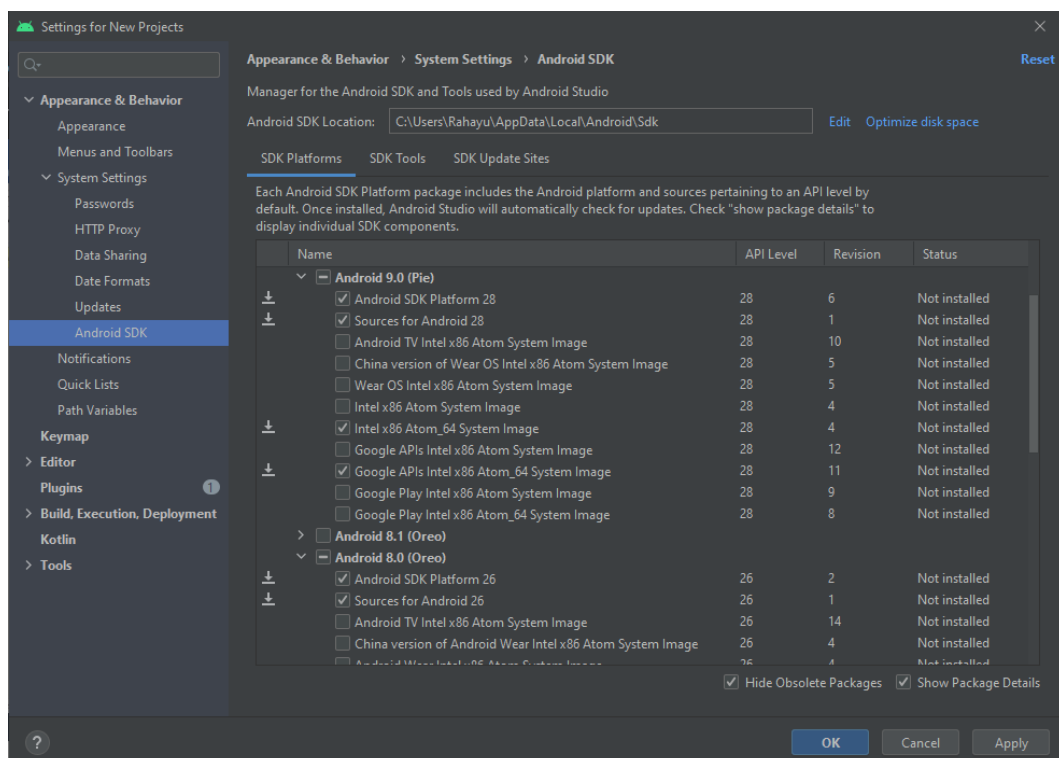
**Gambar 1.8. Install Android SDK(1).**



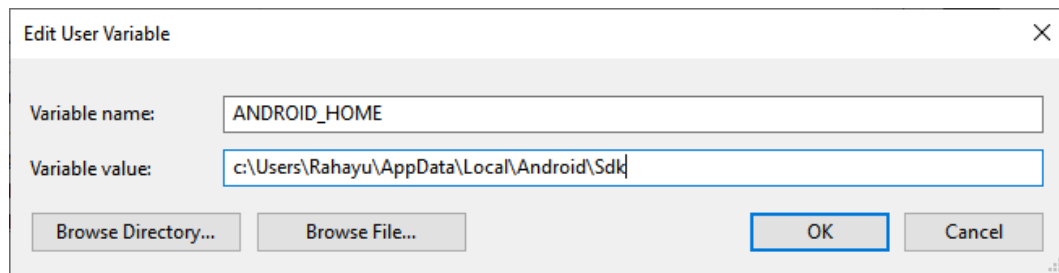
**Gambar 1.9. Install Android SDK(2).**



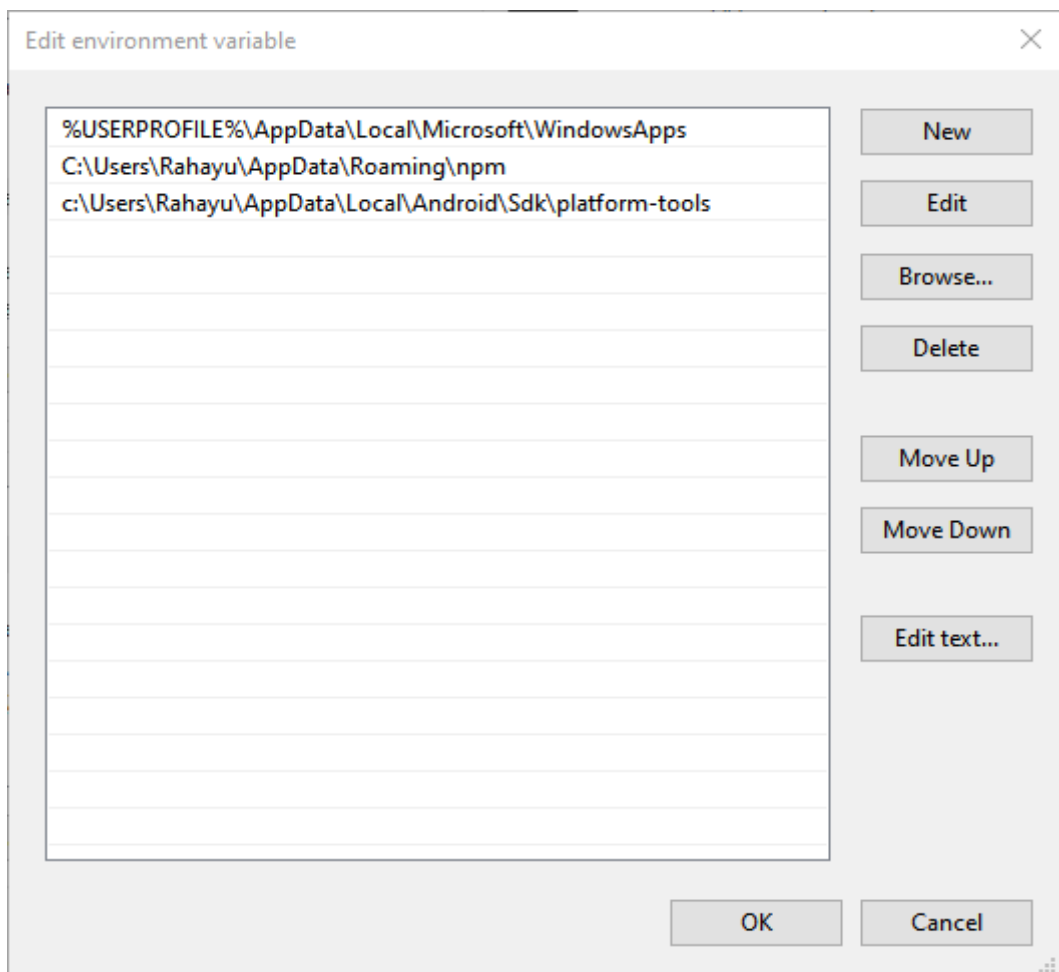
**Gambar 1.10. Install Android SDK(3).**



**Gambar 1.11. Install Android SDK(4).**



**Gambar 1.12.** *Setup PATH.*



**Gambar 1.13.** *Setup PATH(1).*



**Gambar 1.14.** *Install React Native CLI.*

```
C:\Windows\system32\cmd.exe
C:\Users\Rahayu>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Users\Rahayu\ProjectSaya
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
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated uglify-es@3.3.9: support for ECMAScript is superseded by 'uglify-js' as of v3.13.0
added 718 packages, and audited 719 packages in 2m
19 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
info Setting up new React Native app in C:\Users\Rahayu\ProjectSaya
(node:13484) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
info Adding required dependencies
npm WARN deprecated request-promise-native@1.0.9: request-promise-native has been deprecated because it extends the now deprecated request package, see https://github.com/request/request/issues/3142
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive updates.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142
added 458 packages, and audited 1177 packages in 1m
71 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities
info Adding required dev dependencies
up to date, audited 1177 packages in 11s
71 packages are looking for funding
  run 'npm fund' for details
found 0 vulnerabilities

Run instructions for Android:
  • Have an Android emulator running (quickest way to get started), or a device connected.
  • cd "C:\Users\Rahayu\ProjectSaya" && npx react-native run-android

Run instructions for Windows:
  • See https://aka.ms/ReactNativeGuideWindows for the latest up-to-date instructions.
```

**Gambar 1.15.** *Membuat ProjectSaya.*

```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.19041.867]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Users\Rahayu>adb devices
List of devices attached
3b47ccb07d14    device
```

**Gambar 1.16.** *Setting adb devices.*

```
C:\Windows\system32\cmd.exe - "node" "C:\Users\Rahayu\AppData\Roaming\npm\node_modules\react-native-cli\index.js" run-android
C:\Users\Rahayu>cd ProjectSaya
C:\Users\Rahayu\ProjectSaya>react-native run-android
info Running jetifier to migrate libraries to AndroidX. You can disable it using "--no-jetifier" flag.
(node:4796) Warning: Accessing non-existent property 'padLevels' of module exports inside circular dependency
(Use 'node --trace-warnings ...' to show where the warning was created)
jetifier found 903 file(s) to forward-jetify. Using 4 workers...
info Starting JS server...
info Installing the app...
Starting a Gradle Daemon, 1 incompatible and 1 stopped Daemons could not be reused, use --status for details
> Task :app:compileDebugJavaWithJavac
> Task :app:stripDebugDebugSymbols
Unable to strip the following libraries, packaging them as they are: libc++_shared.so, libevent-2.1.so, libevent_core-2.1.so, libevent_extra-2.1.so, libfb.so, libfbjni.
so, libflipper.so, libfolly_futures.so, libfolly_json.so, libglog.so, libglog_init.so, libhermes-executor-common-debug.so, libhermes-executor-common-release.so, libherm
es-executor-debug.so, libhermes-executor-release.so, libhermes-inspector.so, libimagepipeline.so, libjsc.so, libjscexecutor.so, libjsiexecutor.so, libjsiinspector.so, lib
libnative-filters.so, libnative-image-transcoder.so, libreact_codegen_reactandroidspec.so, libreact_nativemodule_core.so, libreactnativeblob.so, libreactnativejni.so, lib
libreactnativeuilibjni.so, libreactperfloggerjni.so, libturboModulejsijni.so, libyoga.so.
> Task :app:installDebug
Installing APK 'app-debug.apk' on 'Redmi 4X - 7.1.2' for app:debug
Installed on 1 device.

BUILD SUCCESSFUL in 8m 52s
29 actionable tasks: 29 executed
info Connecting to the development server...
info Starting the app on "3b47ccb07d14"...
Starting: Intent { cmp=com.projectssaya/.MainActivity }
```

**Gambar 1.17.** *Menjalankan React Native app di HP.*



## Step One

Edit **App.js** to change this screen and then come back to see your edits.

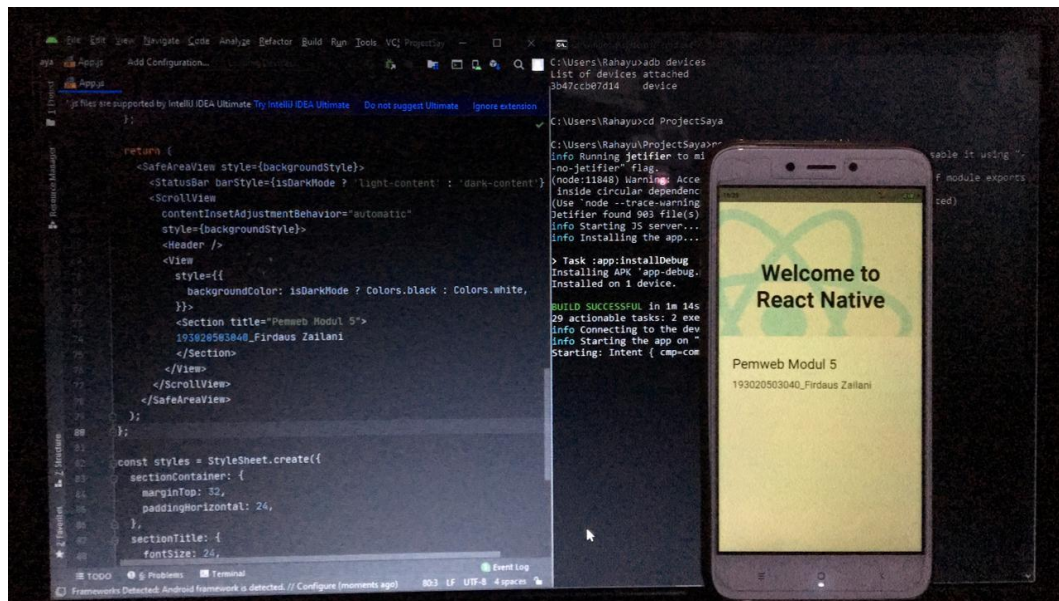
## See Your Changes

Double tap **R** on your keyboard to reload your app's code.

## Debug

Press **Cmd or Ctrl + M** or **Shake** your device to open the React Native debug menu.

**Gambar 1.18.** *React Native app di HP Berhasil Terhubung.*



**Gambar 1.19.** *Sesudah Edit Coding dan Tampilan Pada HP.*