

# **LAPORAN HASIL PRAKTIKUM PEMROGRAMAN WEB & MOBILE 1**



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**KELAS : A**

**MODUL : V (REACT NATIVE)**

**JURUSAN TEKNIK INFORMATIKA  
FAKULTAS TEKNIK  
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TAHUN 2021**

# **BAB I**

## **TUJUAN DAN LANDASAN TEORI**

### **1.1. Tujuan**

- 1.1.1 Mahasiswa mampu memahami penggunaan React Native.
- 1.1.2 Mahasiswa mampu membuat program dengan React Native.

### **1.2. Landasan Teori**

React Native adalah framework mobile app development yang memungkinkan pengembangan aplikasi secara multi-platform yaitu Android dan iOS. Sederhananya, React Native adalah framework yang memungkinkan developer membuat aplikasi untuk berbagai platform dengan menggunakan basis kode yang sama.

Lewat website resmi React Native, mereka mengklaim bahwa framework berbasis JavaScript tersebut adalah cara yang terbaik untuk membangun user interface mobile app.

React Native adalah framework yang ditulis dengan campuran bahasa JavaScript dan JSX, sebuah kode markup khusus yang menyerupai XML. Framework ini memiliki kemampuan untuk berkomunikasi dengan kedua ranah sekaligus, yaitu threads yang berbasis JavaScript dan threads dari native app (*React Native: Ketahui Pengertian Serta Kelebihan Dan Kekurangannya*, n.d.).

React Native menggunakan Node.js , sebuah JavaScript runtime, untuk membuat kode JavaScript Anda. Jika Anda belum menginstal Node.js, sekarang saatnya untuk mendapatkannya.

Pertama instal Homebrew menggunakan petunjuk di situs web Homebrew . Kemudian instal Node.js dengan menjalankan yang berikut ini di jendela Terminal “brew install node”.

Selanjutnya, gunakan homebrew untuk menginstal watchman , pengamat file dari Facebook “brew install watchman”. Ini digunakan oleh React Native untuk mencari tahu kapan kode Anda berubah dan membangunnya kembali.

Ini seperti meminta Xcode melakukan build setiap kali Anda menyimpan file Anda.

Selanjutnya gunakan npm untuk menginstal alat React Native Command Line Interface (CLI) “npm install -g react-native-cli”. Ini menggunakan Node Package Manager untuk mengambil alat CLI dan menginstalnya secara global; npm memiliki fungsi yang mirip dengan CocoaPods atau Carthage dan dikemas dengan Node.js.

Arahkan ke folder tempat Anda ingin mengembangkan aplikasi dan jalankan yang berikut ini di Terminal “react-native init PropertyFinder”. Ini menggunakan alat CLI untuk membuat proyek awal yang berisi semua yang Anda butuhkan untuk membangun dan menjalankan aplikasi React Native (*React Native Tutorial: Building IOS Apps with JavaScript / Raywenderlich.Com*, n.d.).

Di Terminal, jalankan “cd PropertyFinder”. Dalam folder dan file yang dibuat, Anda akan menemukan beberapa item catatan:

- **node\_modules** adalah folder yang berisi kerangka kerja React Native
- **index.js** adalah titik masuk yang dibuat oleh alat CLI
- **App.js** adalah aplikasi kerangka yang dibuat oleh alat CLI
- **ios** adalah folder yang berisi proyek Xcode dan kode yang diperlukan untuk mem-bootstrap aplikasi Anda
- **android** adalah folder yang berisi kode yang berhubungan dengan Android, Anda tidak akan menyentuhnya di tutorial ini.

## BAB II

### PEMBAHASAN

#### 2.1 Install Chocolatey

Lakukan penginstalan Chocolatey pada perangkat melalui cmd atau Command Prompt. Chocolatey adalah package manager di level operating system, bukan application level seperti Composer atau RubyGems. Seperti halnya package manager lainnya, fungsi dari Chocolatey adalah mengatur dan mengotomasi program dalam komputer, seperti install, upgrade, dan menghapus program (*Chocolatey, Package Manager Seperti Apt-Get Untuk Windows - Codepolitan*, n.d.).

```
C:\Windows\system32>%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"
Forcing web requests to 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\satri\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\satri\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\satri\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'.
```

Gambar 2.1.1 Install Chocolatey Awal

```
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\satri\OneDrive\Dokumen\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
```

Gambar 2.1.2 Install Chocolatey Akhir

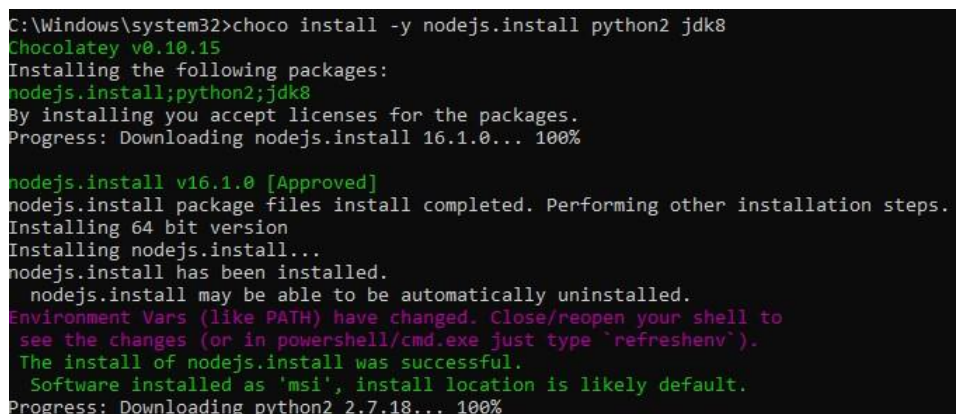
## 2.2 Install JDK, Node.JS, dan Phyton

Setelah selesai menginstall Chocolatey, lanjutkan dengan menginstall JDK, Node.JS dan Phyton dengan menggunakan perintah “choco install -y nodejs.install python2 jdk8”.

Node.js adalah platform buatan untuk menjalankan aplikasi web berbasis JavaScript yang dikenalkan pada tahun 2009. Dengan platform ini, Anda dapat menjalankan JavaScript dari sisi server (*Pengenalan Node.Js Lengkap Bagi Pemula - Niagahoster, n.d.*).

Fungsi pada python adalah kumpulan perintah, yang dikelompokkan menjadi satu kesatuan untuk keperluan tertentu. Dia bisa menerima parameter, bisa mengembalikan suatu nilai, dan bisa dipanggil berkali-kali secara independen. Dengan fungsi, kita bisa memecah program yang kita tulis menjadi bagian-bagian kecil dengan tugasnya masing-masing. Juga, fungsi akan membuat kode program kita menjadi “reusable” dan juga menghindari repetitif (*Python Dasar: Fungsi (Def) 🐍 / Jago Ngoding, n.d.*).

JDK (Java Development Kit) adalah perangkat lunak yang digunakan untuk melakukan proses kompilasi dari kode java ke bytecode yang dapat dimengerti dan dapat dijalankan oleh JRE (Java Runtime Envirotment) (*Apa Itu Java?, n.d.*).



```
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%
```

**Gambar 2.2.1** Install Node.JS

```
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://javadl.oracle.com/webapps/download/GetFile/1.8.0_211-b12/478a62b7d4e34b78b671c754eaaaf38ab/w
indows-i586/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\'
```

**Gambar 2.2.2** Install Phyton dan JDK

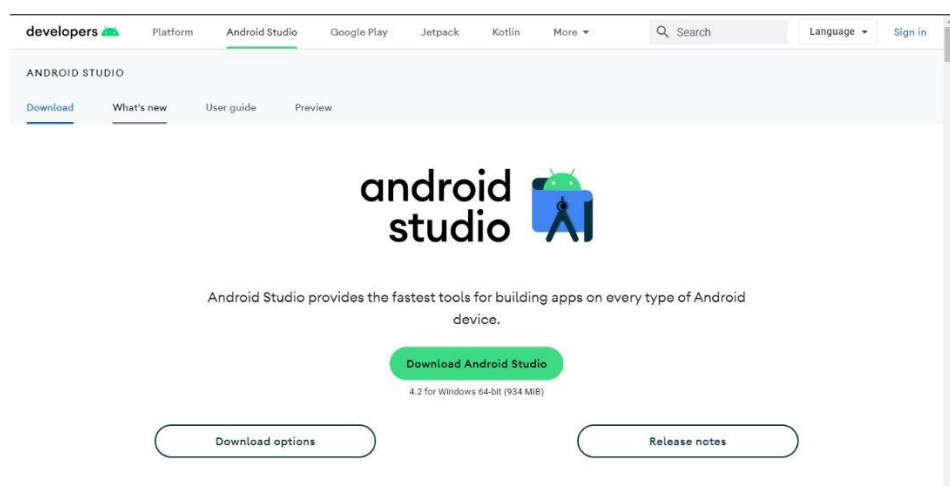
```
Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

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
```

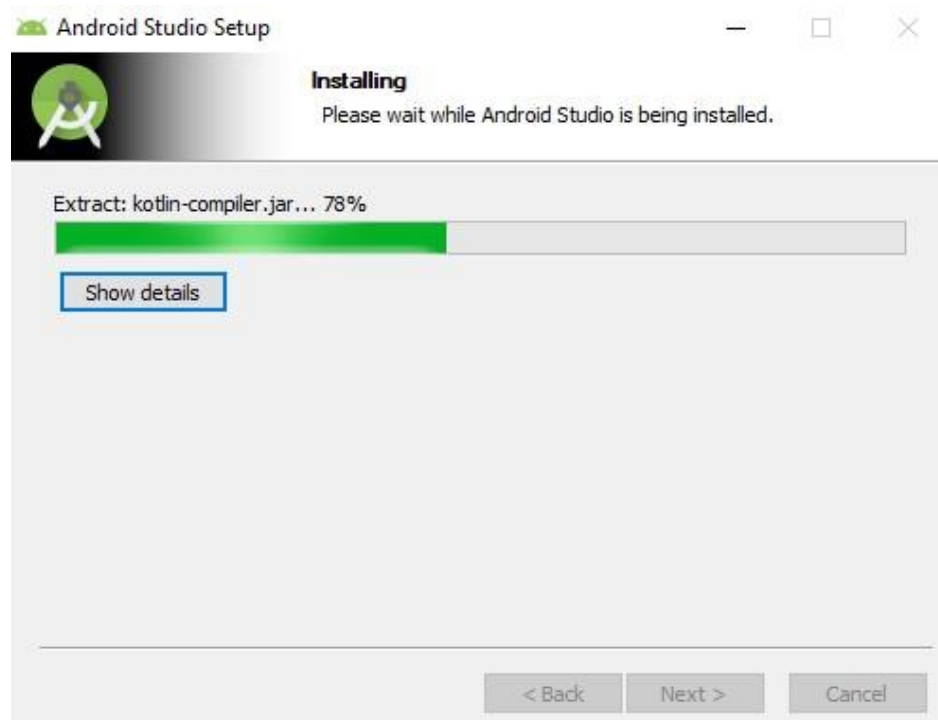
**Gambar 2.2.3** Finishing Installing

## 2.3 Install Android Studio

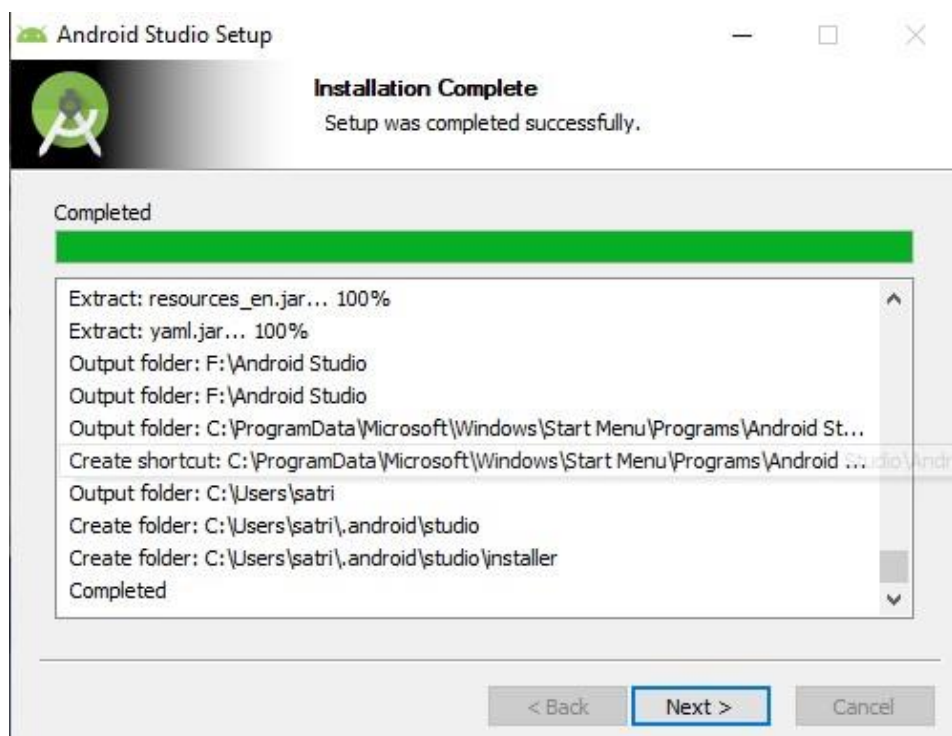
Download dan Install Android Studi jika belum memilikinya pada <https://developer.android.com/studio/>.



**Gambar 2.3.1** Website Android Studio



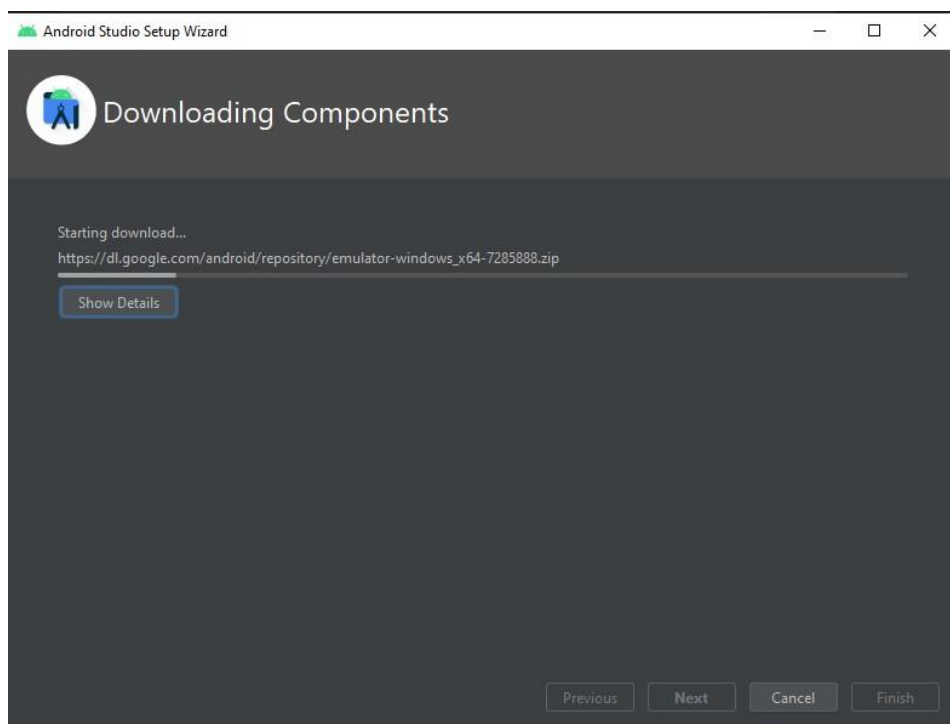
**Gambar 2.3.2** Proses Penginstallan



**Gambar 2.3.3** Penginstallan Selesai



**Gambar 2.3.4** Tampilan Awal Android Studio

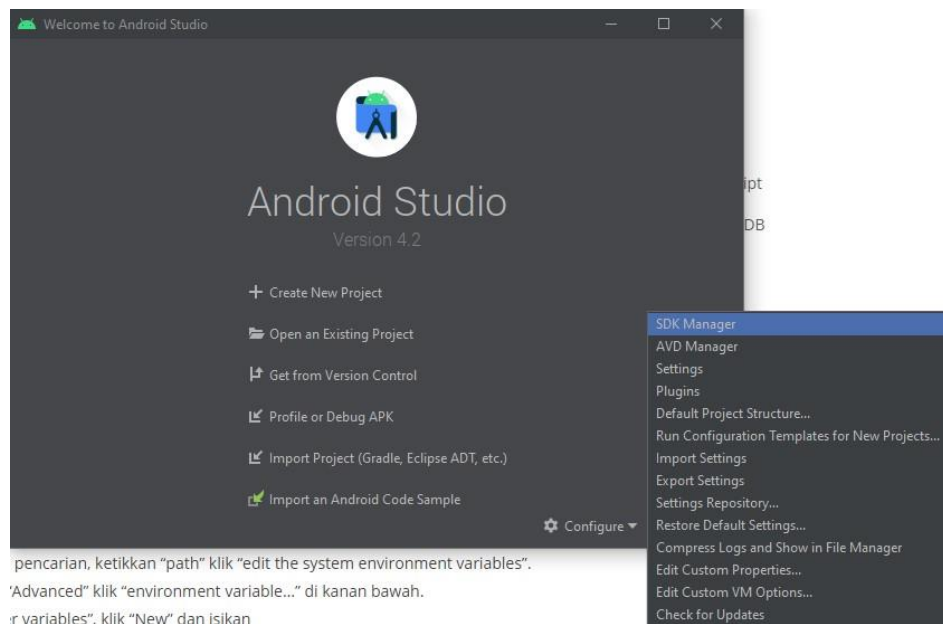


**Gambar 2.3.5** Mengunduh komponen tambahan



## 2.4 Install Android SDK

Setelah selesai diinstall, install lagi Android SDK pada Android Studio dengan cara jalankan Android Studio. saat di halaman “Welcome to Android Studio” klik Menu Configure lalu pilih “SDK Manager”.



**Gambar 2.4.1** Menu Configure

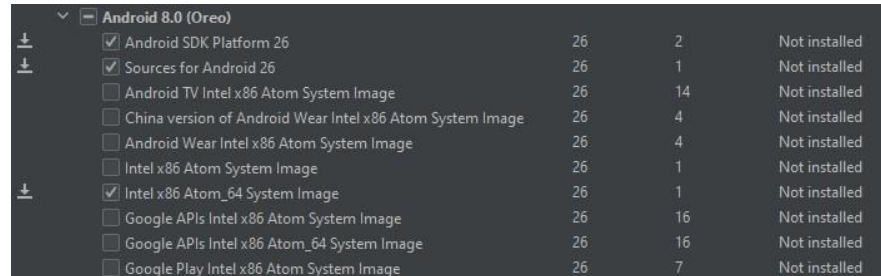
Setelah itu, Pilih Tab “SDK Platforms” pada SDK Manager, kemudian cek pada list Android 9.0 (Pie) dan Android 8.0 (Oreo). Kemudian cek “Show Package Details” yang ada di kanan bawah.

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

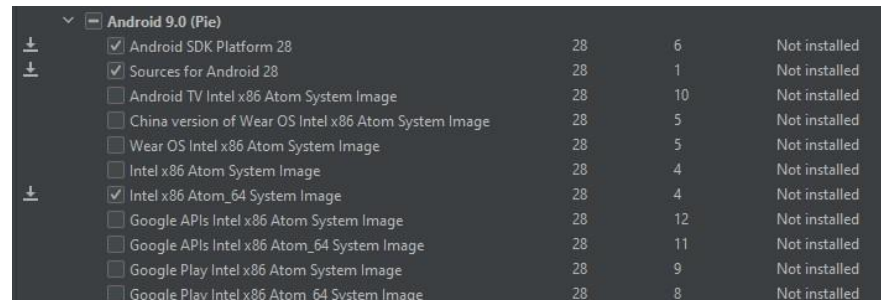
Kemudian pilih tab “SDK Tools” dan cek “Show Package Details” di kanan bawah. Cari “Android SDK Build-Tools”, pastikan bahwa 28.0.3

sudah di cek. Cek juga “Android Emulator, Android SDK Platform-Tools, Android SDK Tools”.



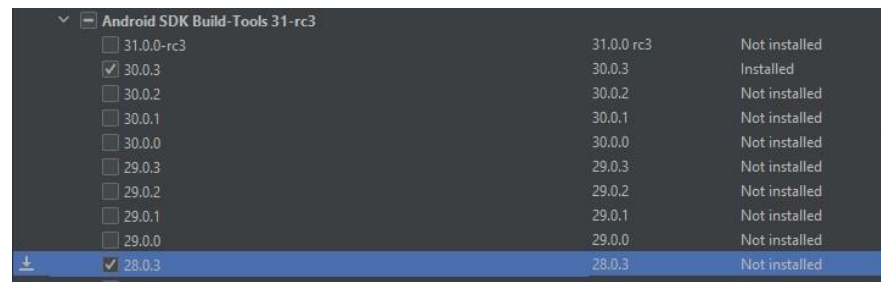
Platform	API Level	System Image	Status
Android SDK Platform 26	26	2	Not installed
Sources for Android 26	26	1	Not installed
Android TV Intel x86 Atom System Image	26	14	Not installed
China version of Android Wear Intel x86 Atom System Image	26	4	Not installed
Android Wear Intel x86 Atom System Image	26	4	Not installed
Intel x86 Atom System Image	26	1	Not installed
Intel x86 Atom_64 System Image	26	1	Not installed
Google APIs Intel x86 Atom System Image	26	16	Not installed
Google APIs Intel x86 Atom_64 System Image	26	16	Not installed
Google Play Intel x86 Atom System Image	26	7	Not installed

**Gambar 2.4.2** Platform Android 8.0



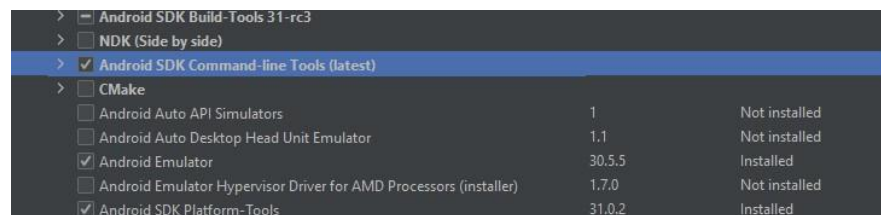
Platform	API Level	System Image	Status
Android SDK Platform 28	28	6	Not installed
Sources for Android 28	28	1	Not installed
Android TV Intel x86 Atom System Image	28	10	Not installed
China version of Wear OS Intel x86 Atom System Image	28	5	Not installed
Wear OS Intel x86 Atom System Image	28	5	Not installed
Intel x86 Atom System Image	28	4	Not installed
Intel x86 Atom_64 System Image	28	4	Not installed
Google APIs Intel x86 Atom System Image	28	12	Not installed
Google APIs Intel x86 Atom_64 System Image	28	11	Not installed
Google Play Intel x86 Atom System Image	28	9	Not installed
Google Play Intel x86 Atom_64 System Image	28	8	Not installed

**Gambar 2.4.3** Platform Android 9.0



Build-Tools Version	Status
31.0.0-rc3	Not installed
30.0.3	Installed
30.0.2	Not installed
30.0.1	Not installed
30.0.0	Not installed
29.0.3	Not installed
29.0.2	Not installed
29.0.1	Not installed
29.0.0	Not installed
28.0.3	Not installed
28.0.2	Not installed

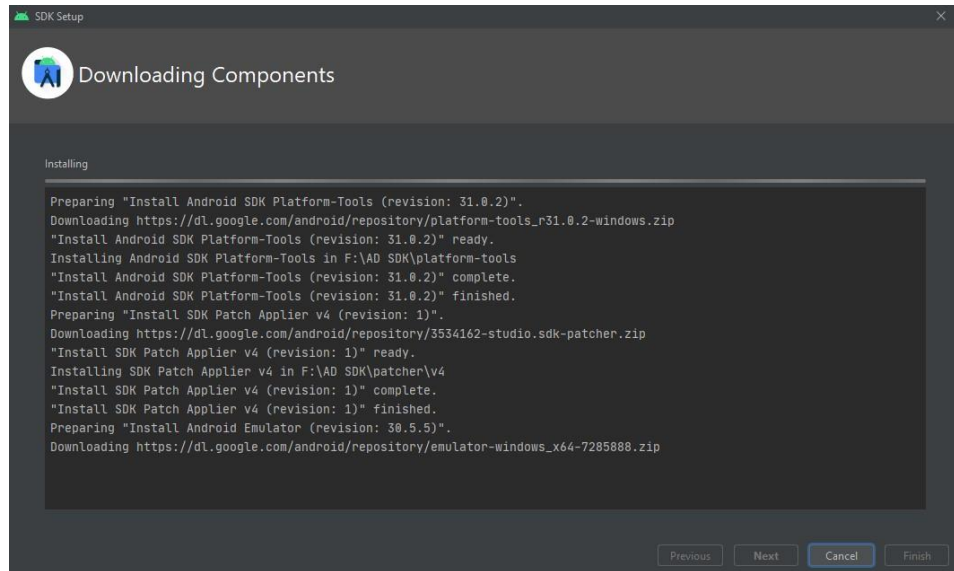
**Gambar 2.4.4** Android SDK Build-Tools



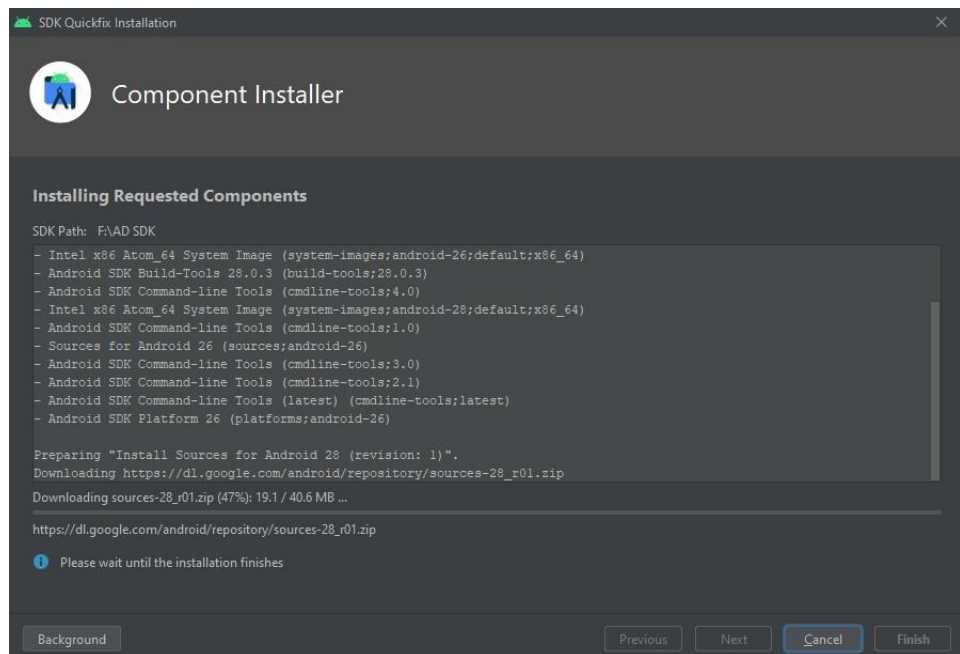
Tool	Version	Status
Android SDK Build-Tools 31-rc3		
NDK (Side by side)		
Android SDK Command-line Tools (latest)		
CMake		
Android Auto API Simulators	1	Not installed
Android Auto Desktop Head Unit Emulator	1.1	Not installed
Android Emulator	30.5.5	Installed
Android Emulator Hypervisor Driver for AMD Processors (installer)	1.7.0	Not installed
Android SDK Platform-Tools	31.0.2	Installed

**Gambar 2.4.5** SDK Tools

Setelah selesai memilih apa yang ingin diinstall, lalu tekan apply untuk melakukan pengunduhan komponen.



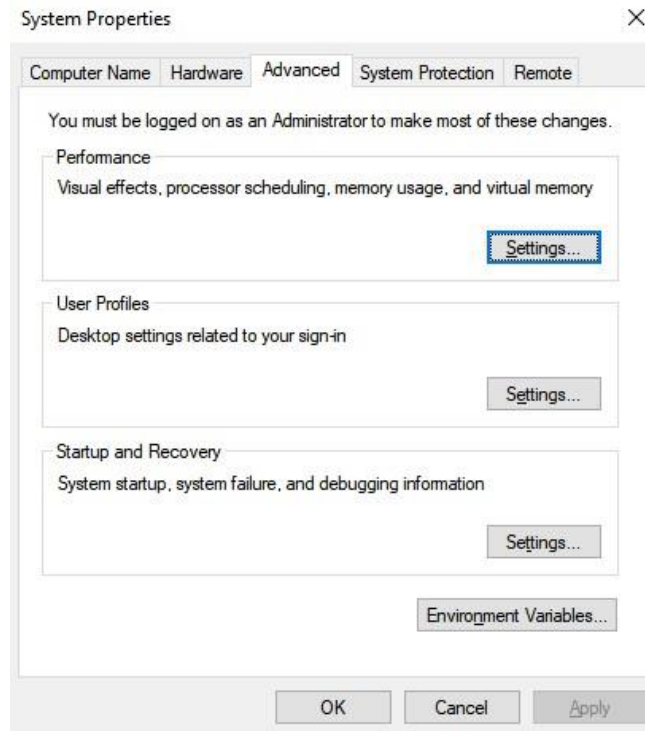
**Gambar 2.4.6** Proses Download



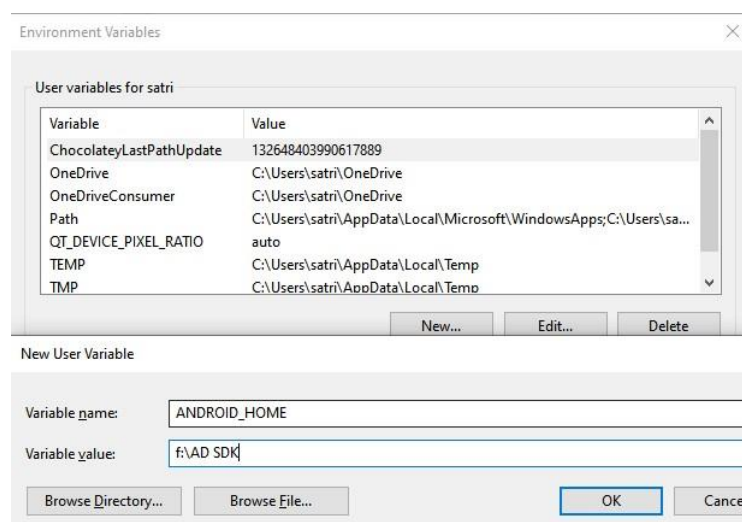
**Gambar 2.4.7**

## 2.5 Setup PATH environment variable

Klik menu pencarian, ketikkan “path” klik “edit the system environment variables”. Pada tab “Advanced” klik “environment variable...” di kanan bawah.

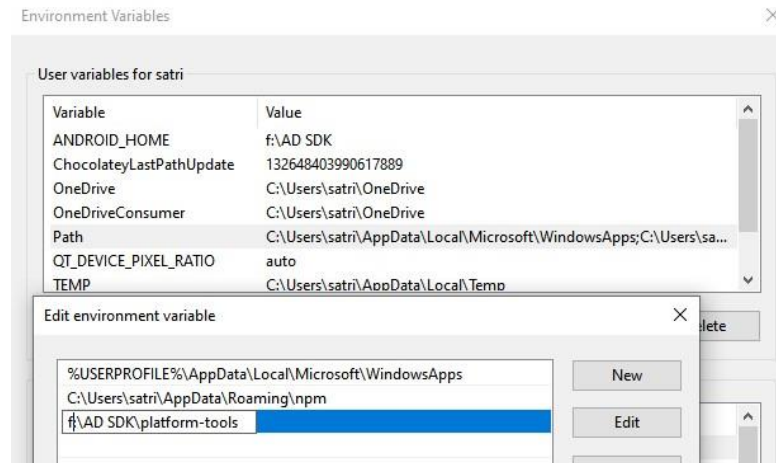


**Gambar 2.5.1** System Properties Tab Advanced



**Gambar 2.5.2** Pembuatan User Variabel Baru

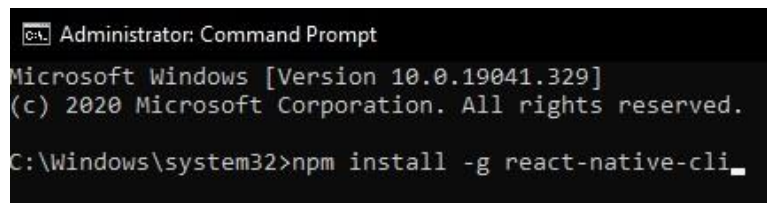
Pada “User variables”, klik “New” dan isikan sesuai pada gambar 2.5.2. Lanjut, klik variabel “path”, kemudian klik edit. Klik New lalu masukkan path platform-tools seperti pada gambar 2.5.3.



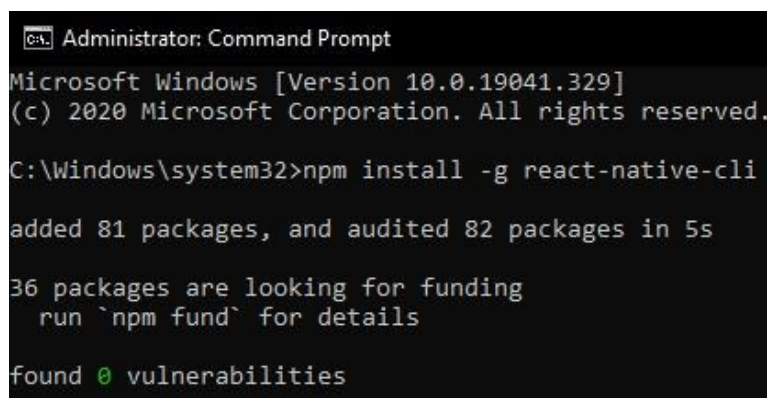
**Gambar 2.5.3** Penambahan Variabel Environment

## 2.6 Install REACT NATIVE CLI

Lakukan penginstalan pada React Native CLI.



**Gambar 2.6.1** Install React Native Cli



**Gambar 2.6.2** Selesai menginstall

## 2.7 Buat aplikasi pertamamu

Untuk membuat aplikasi ketikkan perintah “react-native init namaaplikasi”. Disini saya akan membuat aplikasi bernama ProjectSaya. Maka dari itu menggunakan “react-native init ProjectSaya”.

```
C:\Windows\system32>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Windows\system32\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 1m
18 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
info Setting up new React Native app in C:\Windows\system32\ProjectSaya
(node:2688) 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 har-validator@5.1.5: this library is no longer supported
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 babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive u
pdates.
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 32s
```

Gambar 2.7.1 Proses Pembuatan Aplikasi

```
70 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 4s
70 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:\Windows\system32\ProjectSaya" && npx react-native run-android

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

Gambar 2.7.2 Pengecekan Aplikasi

## 2.8 Setting device/emulator kamu

Untuk bagian ini, kita bisa menggunakan perangkat seperti hp atau emulator. Saya akan menggunakan hp. Maka kita harus menancapkan 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 seperti pada gambar 2.8.1.

```
C:\Users\satri>adb devices
adb server version (36) doesn't match this client (41); killing...
* daemon started successfully
List of devices attached
CB512DL4KT    device
```

**Gambar 2.8.1** Pengecekan Perangkat

Terlihat bahwa telah ada perangkat yang terdeteksi pada program ini sebagai tujuan react native app.

## 2.9 Menjalankan react native app di HP

Pada CMD, ketikkan “cd ProjectSaya” untuk membuka folder aplikasi yang telah kita buat dan “react-native run-android” untuk menjalankannya. Maka akan terlihat seperti gambar 2.9.1 untuk prosesnya.

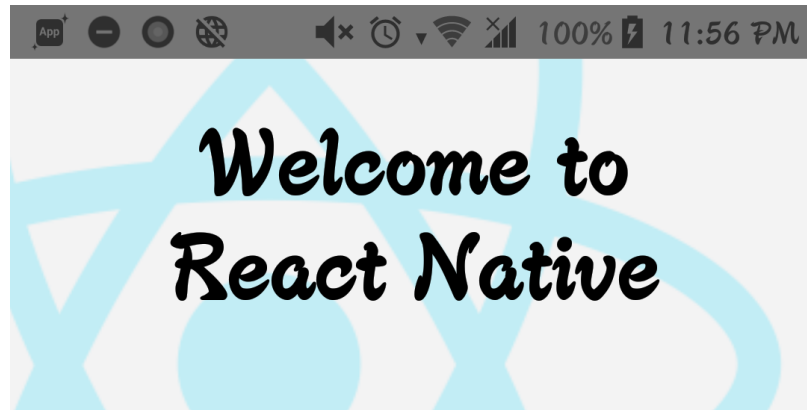
```
C:\Users\satri\ProjectSaya>npx react-native run-android
info Running jetifier to migrate libraries to AndroidX. You can disable it using "--no-jetifier" flag.
Jetifier found 903 file(s) to forward-jetify. Using 4 workers...
info JS server already running.
'f:\AD' is not recognized as an internal or external command,
operable program or batch file.
info Launching emulator...
error Failed to launch emulator. Reason: Emulator exited before boot..
warn Please launch an emulator manually or connect a device. Otherwise app may fail to launch.
info Installing the app...

> Task :app:installDebug
Installing APK 'app-debug.apk' on 'SO-04H - 8.0.0' for app:debug
Installing APK 'app-debug.apk' on 'SM-G9550 - 7.1.2' for app:debug
Installed on 2 devices.

BUILD SUCCESSFUL in 27s
29 actionable tasks: 2 executed, 27 up-to-date
info Connecting to the development server...
adb server version (36) doesn't match this client (41); killing...
* daemon started successfully
info Starting the app...
Starting: Intent { cmp=com.projectsaya/.MainActivity }
```

**Gambar 2.9.1** Proses Penjalanan React Native

Jika program berhasil dijalankan, maka pada hp yang telah tersambung akan meminta penginstalan. Apabila diizinkan akan muncul pada tampilan hp seperti gambar 2.9.2.



## 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.

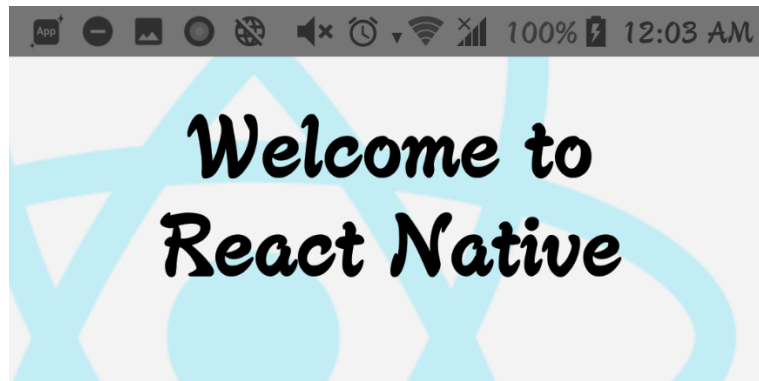


**Gambar 2.9.2** Tampilan HP Program React Native



## 2.10 Edit codingan App

Untuk mengedit codingannya, buka folder aplikasi yang dibuat dan buka file App.js dengan software pemrograman yang diinginkan. Setelah itu ubah codingnya dan save. Lalu pada hp, tampilannya akan berubah sesuai dengan perubahan yang dilakukan.



*Satria Septa Arianto*

*193020503026*

*Modul V (React Native)*

*Pemrograman Web dan Mobile*  
*1*



**Gambar 2.10.1** React Native Setelah Edit

### **BAB III**

### **KESIMPULAN**


React Native adalah framework javascript yang berjalan pada bidang mobile. Dimana Android dan iOS adalah pasarnya untuk saat ini. Selain itu, dapat juga dijalankan melalui emulator dengan setingan yang tepat. Dengan ini React Native akan menjadi framework yang populer karena hanya perlu satu kode untuk mengembangkan aplikasi Android dan iOS.

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## LAMPIRAN

```
C:\Windows\system32>%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"
Forcing web requests to 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\satri\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\satri\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\satri\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'.
```

**Gambar 2.1.1** Install Chocolatey Awal

```
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\satri\OneDrive\Dokumen\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
```

**Gambar 2.1.2** Install Chocolatey Akhir

```
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%
```

**Gambar 2.2.1** Install Node.JS

```
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%

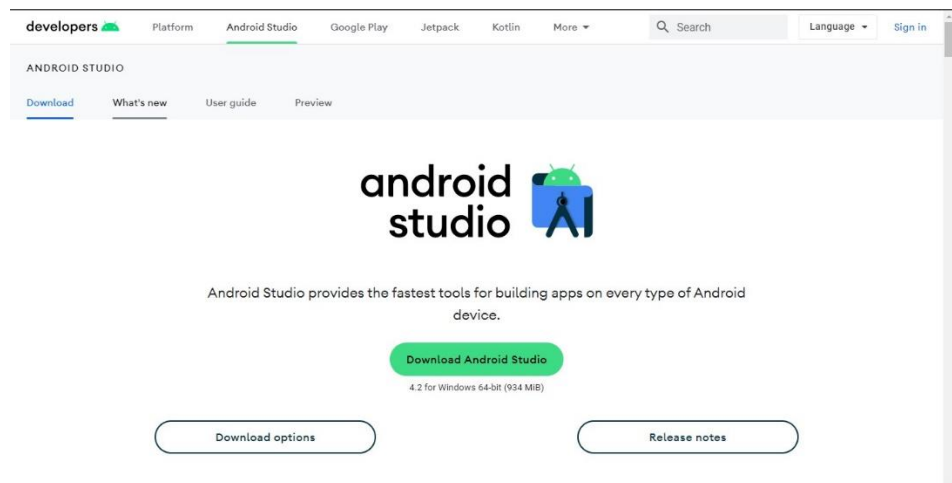
jdk8 v8.0.211 [Approved]
jdk8 package files install completed. Performing other installation steps.
Downloading JDK from https://javadl.oracle.com/webapps/download/GetFile/1.8.0_211-b12/478a62b7d4e34b78b671c754eaf38ab/w
indows-i586/jdk-8u211-windows-x64.exe
Installing jdk8...
jdk8 has been installed.
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\'
```

**Gambar 2.2.2** Install Phyton dan JDK

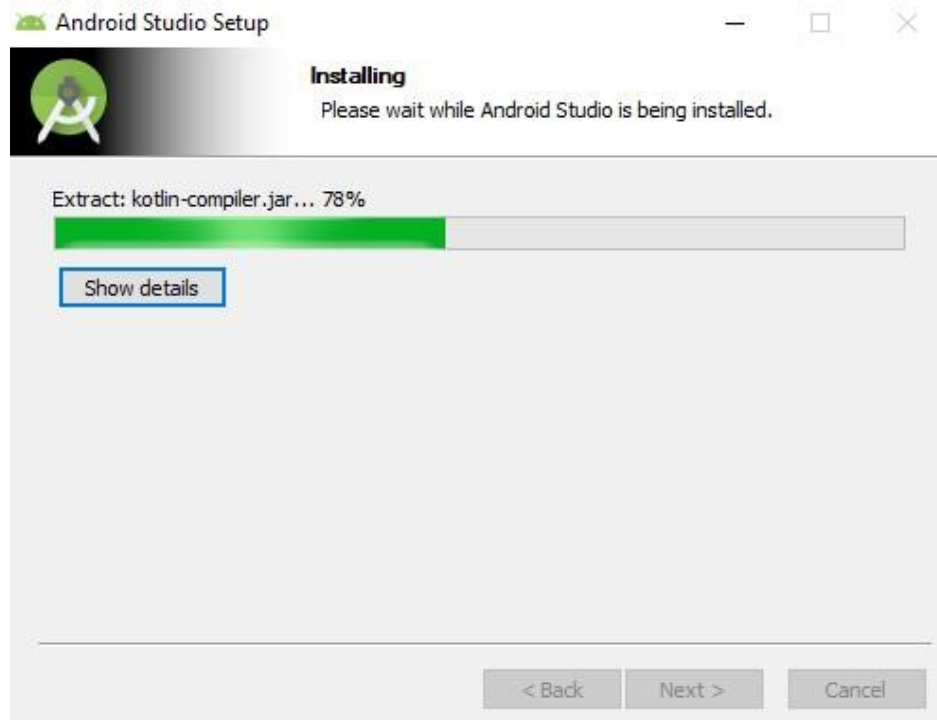
```
Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

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
```

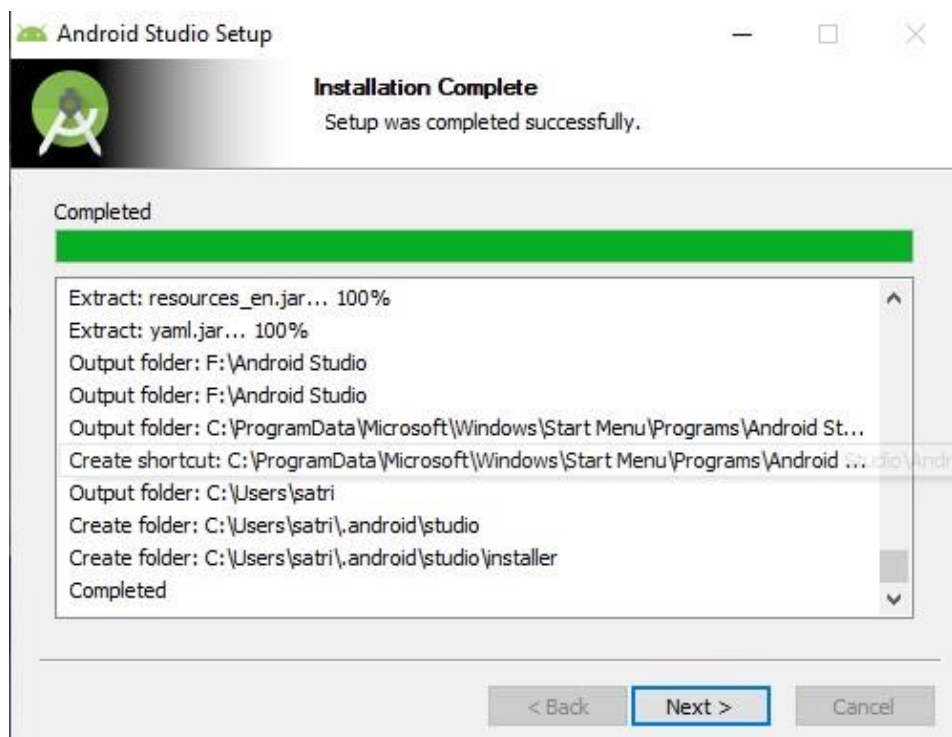
**Gambar 2.2.3** Finishing Installing



**Gambar 2.3.1** Website Android Studio



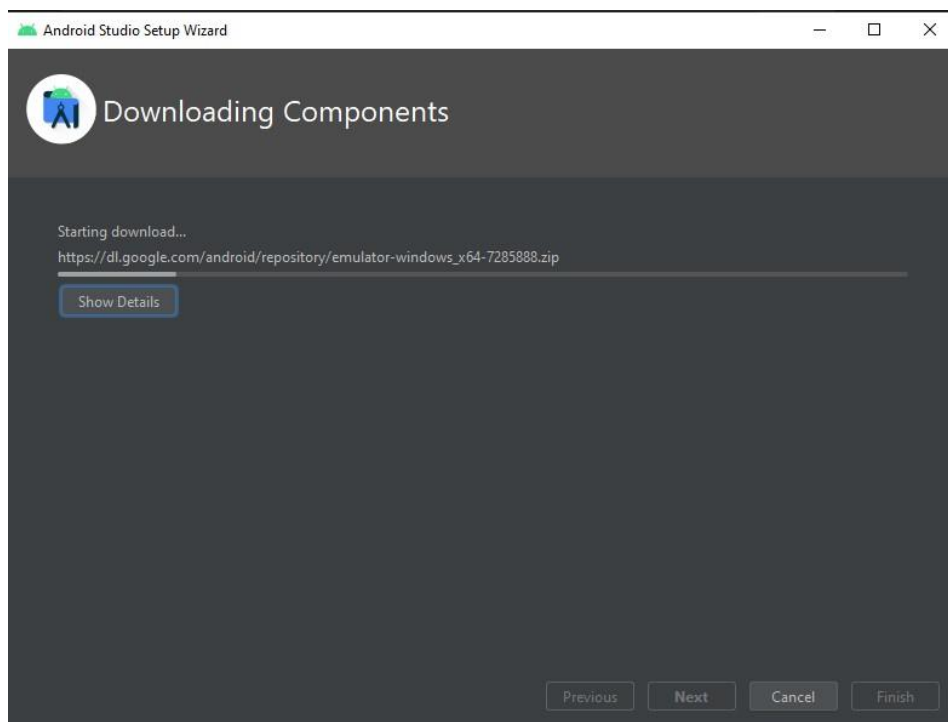
**Gambar 2.3.2** Proses Penginstallan



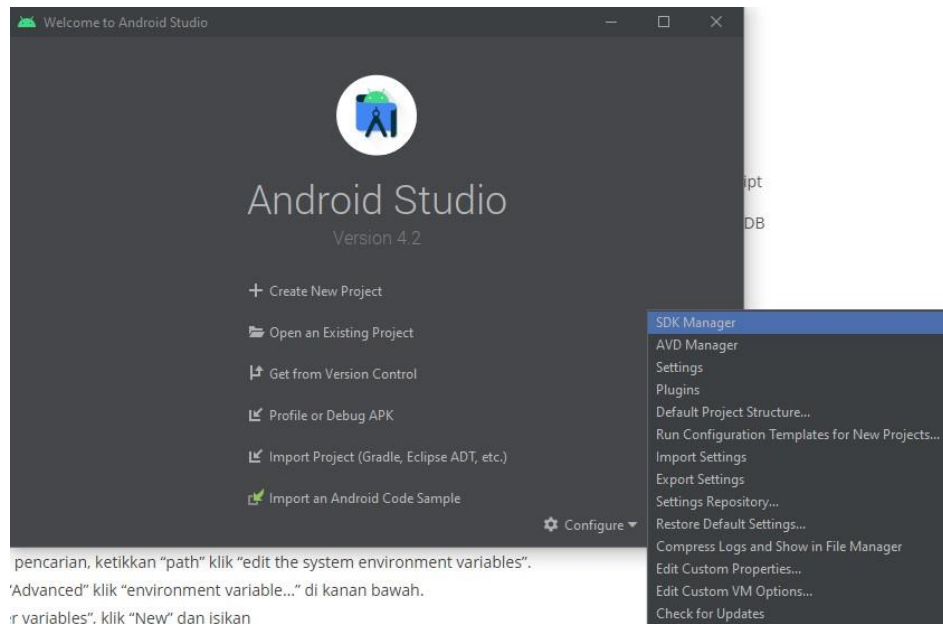
**Gambar 2.3.3** Penginstallan Selesai



**Gambar 2.3.4** Tampilan Awal Android Studio



**Gambar 2.3.5** Mengunduh komponen tambahan



pencarian, ketikkan "path" klik "edit the system environment variables".  
 'Advanced' klik "environment variable..." di kanan bawah.  
 r variables", klik "New" dan isikan

**Gambar 2.4.1** Menu Configure

Android 8.0 (Oreo)				
<input checked="" type="checkbox"/>	Android SDK Platform 26	26	2	Not installed
<input checked="" type="checkbox"/>	Sources for Android 26	26	1	Not installed
<input type="checkbox"/>	Android TV Intel x86 Atom System Image	26	14	Not installed
<input type="checkbox"/>	China version of Android Wear Intel x86 Atom System Image	26	4	Not installed
<input type="checkbox"/>	Android Wear Intel x86 Atom System Image	26	4	Not installed
<input type="checkbox"/>	Intel x86 Atom System Image	26	1	Not installed
<input checked="" type="checkbox"/>	Intel x86 Atom_64 System Image	26	1	Not installed
<input type="checkbox"/>	Google APIs Intel x86 Atom System Image	26	16	Not installed
<input type="checkbox"/>	Google APIs Intel x86 Atom_64 System Image	26	16	Not installed
<input type="checkbox"/>	Google Play Intel x86 Atom System Image	26	7	Not installed

**Gambar 2.4.2** Platform Android 8.0

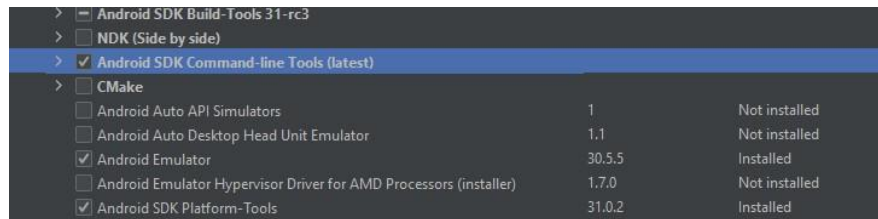
Android 9.0 (Pie)				
<input checked="" type="checkbox"/>	Android SDK Platform 28	28	6	Not installed
<input checked="" type="checkbox"/>	Sources for Android 28	28	1	Not installed
<input type="checkbox"/>	Android TV Intel x86 Atom System Image	28	10	Not installed
<input type="checkbox"/>	China version of Wear OS Intel x86 Atom System Image	28	5	Not installed
<input type="checkbox"/>	Wear OS Intel x86 Atom System Image	28	5	Not installed
<input type="checkbox"/>	Intel x86 Atom System Image	28	4	Not installed
<input checked="" type="checkbox"/>	Intel x86 Atom_64 System Image	28	4	Not installed
<input type="checkbox"/>	Google APIs Intel x86 Atom System Image	28	12	Not installed
<input type="checkbox"/>	Google APIs Intel x86 Atom_64 System Image	28	11	Not installed
<input type="checkbox"/>	Google Play Intel x86 Atom System Image	28	9	Not installed
<input type="checkbox"/>	Google Play Intel x86 Atom_64 System Image	28	8	Not installed

**Gambar 2.4.3** Platform Android 9.0

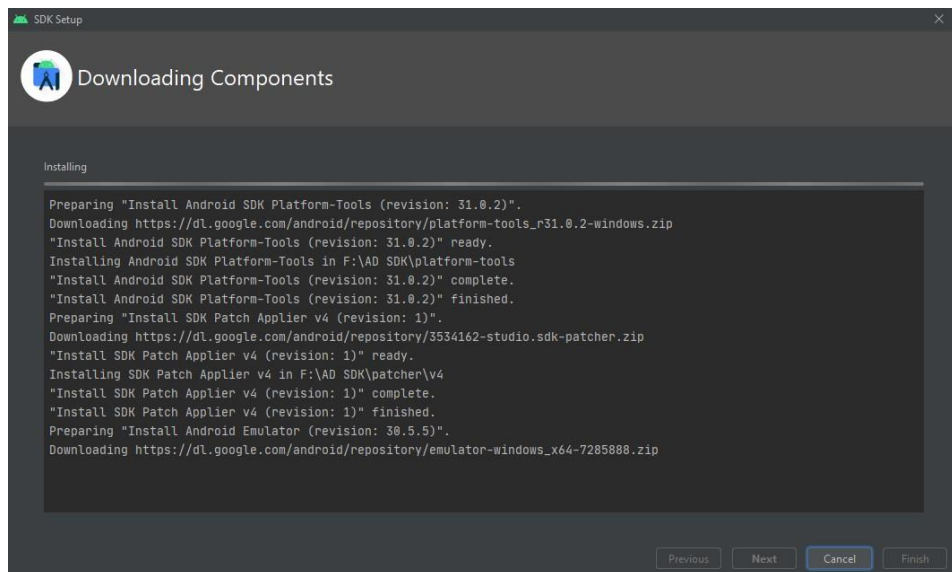




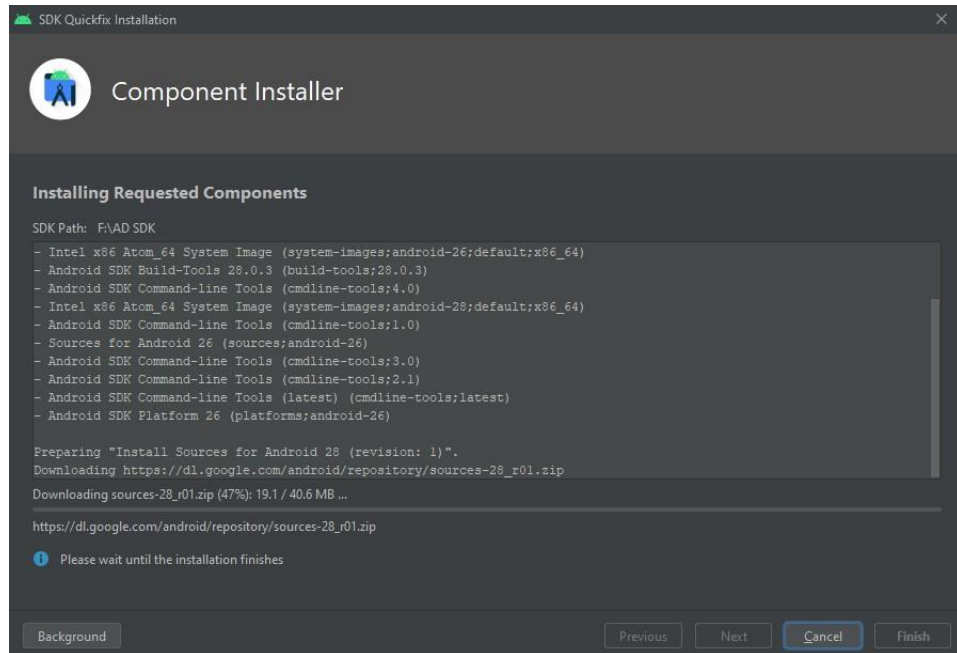
**Gambar 2.4.4** Android SDK Build-Tools



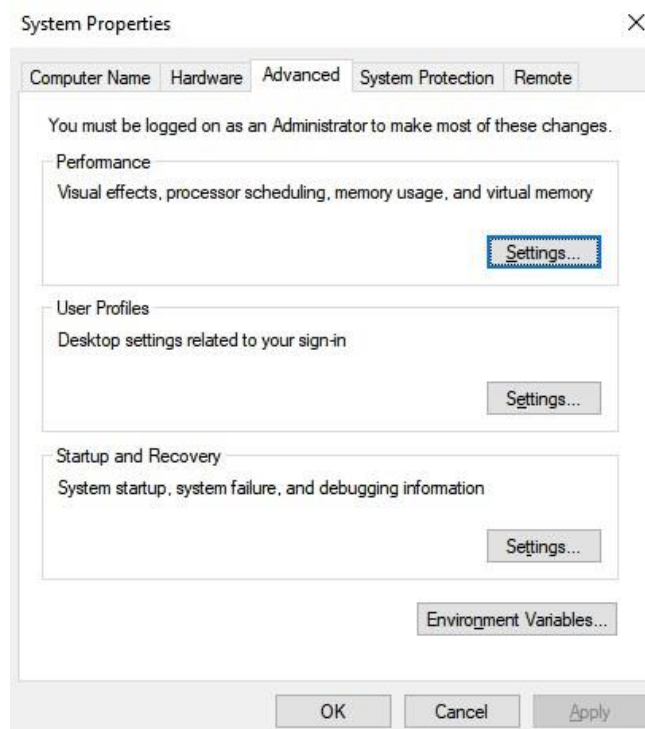
**Gambar 2.4.5** SDK Tools



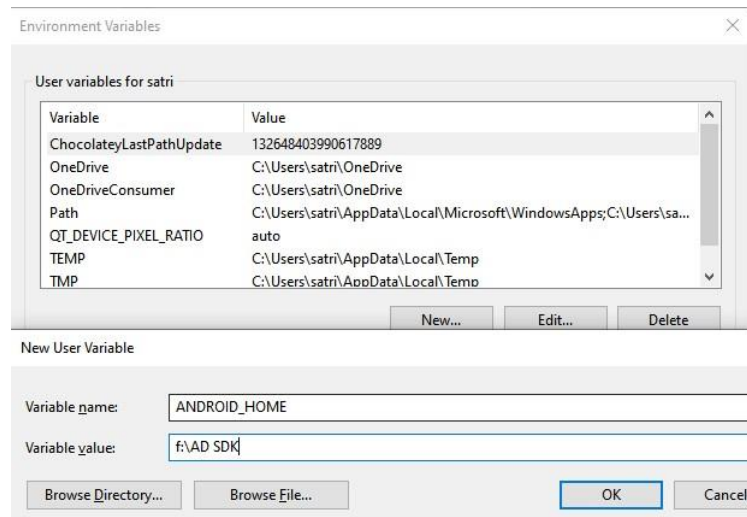
**Gambar 2.4.6** Proses Download



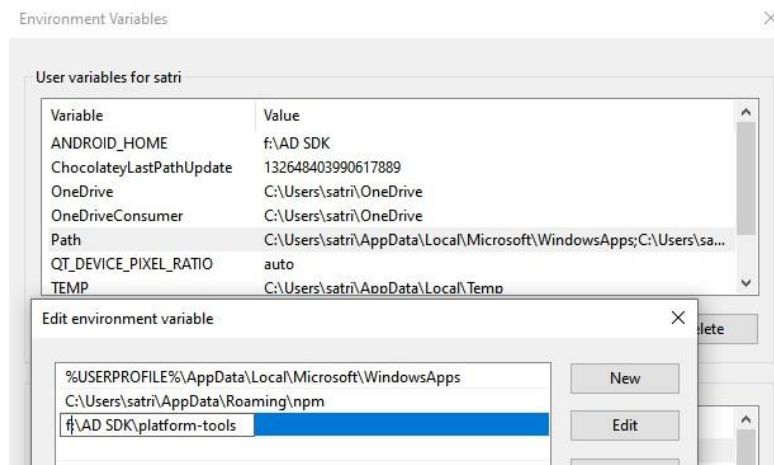
**Gambar 2.4.7**



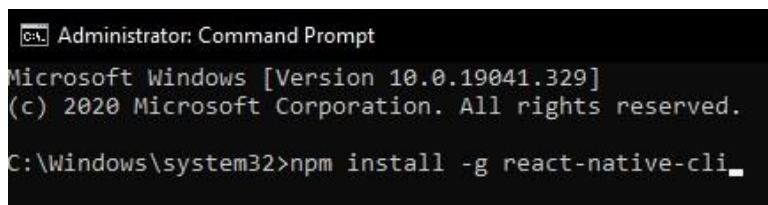
**Gambar 2.5.1** System Properties Tab Advanced



**Gambar 2.5.2** Pembuatan User Variabel Baru



### Gambar 2.5.3 Penambahan Variabel Environment



### Gambar 2.6.1 Install React Native Cli

```
C:\ Windows [Version 10.0.19041.329]
(c) 2020 Microsoft Corporation. All rights reserved.

C:\Windows\system32>npm install -g react-native-cli

added 81 packages, and audited 82 packages in 5s

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

found 0 vulnerabilities
```

**Gambar 2.6.2** Selesai menginstall

```
C:\Windows\system32>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Windows\system32\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 1m

18 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
info Setting up new React Native app in C:\Windows\system32\ProjectSaya
(node:2688) 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 har-validator@5.1.5: this library is no longer supported
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 babel-eslint@10.1.0: babel-eslint is now @babel/eslint-parser. This package will no longer receive u
pdates.
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 32s
```

**Gambar 2.7.1** Proses Pembuatan Aplikasi

```
70 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 4s

70 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:\Windows\system32\ProjectSaya" && npx react-native run-android

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

**Gambar 2.7.2** Pengecekan Aplikasi

```

C:\Users\satri>adb devices
adb server version (36) doesn't match this client (41); killing...
* daemon started successfully
List of devices attached
CB512DL4KT    device

```

**Gambar 2.8.1** Pengecekan Perangkat

```

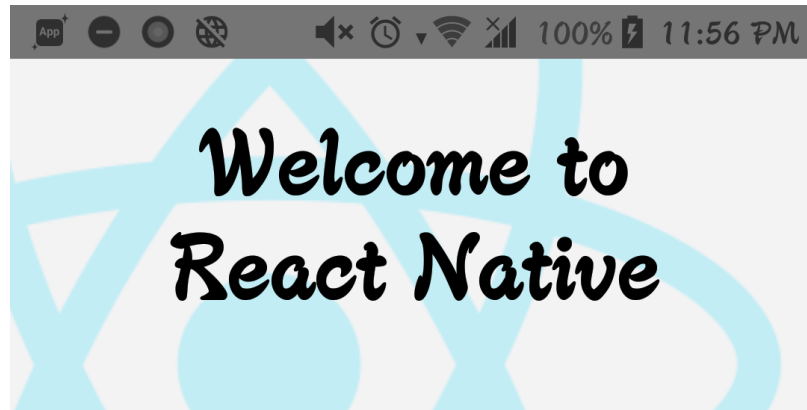
C:\Users\satri\ProjectSaya>npx react-native run-android
info Running jetifier to migrate libraries to AndroidX. You can disable it using "--no-jetifier" flag.
Jetifier found 903 file(s) to forward-jetify. Using 4 workers...
info JS server already running.
'f:\AD' is not recognized as an internal or external command,
operable program or batch file.
info Launching emulator...
error Failed to launch emulator. Reason: Emulator exited before boot..
warn Please launch an emulator manually or connect a device. Otherwise app may fail to launch.
info Installing the app...

> Task :app:installDebug
Installing APK 'app-debug.apk' on 'SO-04H - 8.0.0' for app:debug
Installing APK 'app-debug.apk' on 'SM-G9550 - 7.1.2' for app:debug
Installed on 2 devices.

BUILD SUCCESSFUL in 27s
29 actionable tasks: 2 executed, 27 up-to-date
info Connecting to the development server...
adb server version (36) doesn't match this client (41); killing...
* daemon started successfully
info Starting the app...
Starting: Intent { cmp=com.projectsaya/.MainActivity }

```

**Gambar 2.9.1** Proses Penjalanan React Native



## Step One

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

## See Your Changes

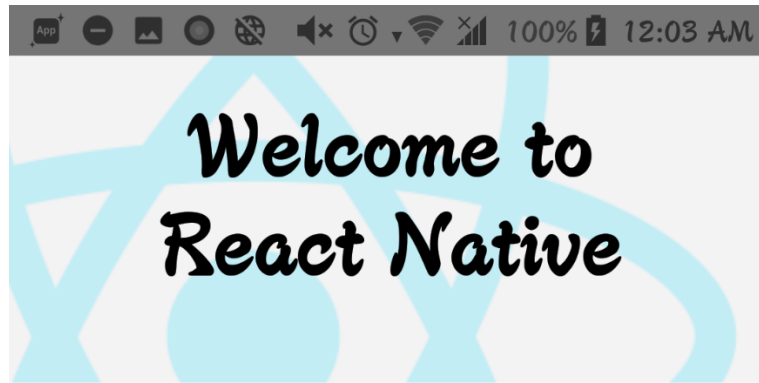
Double tap **R** on your keyboard to reload your app's code.

## Debug

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



**Gambar 2.9.2** Tampilan HP Program React Native



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*Pemrograman Web dan Mobile*  
*1*



**Gambar 2.10.1** React Native Setelah Edit