

LAPORAN HASIL PRAKTIKUM
PEMROGRAMAN WEBSITE DAN MOBILE I



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2021

BAB I

TUJUAN DAN LANDASAN TEORI

1. Tujuan Praktikum

1.1. Mahasiswa mampu melakukan instalasi react native.

2. Landasan Teori

2.1. React Native

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 Developer bisa membuat satu aplikasi yang bisa digunakan di berbagai platform, yaitu Android dan iOS.

Dalam membuat sebuah aplikasi, Developer 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, Developer butuh belajar bahasa pemrograman Java. Sedangkan untuk membuat aplikasi di iOS, Developer perlu belajar menggunakan bahasa pemrograman Objective C atau Swift. Namun dengan menggunakan React Native sebagai framework, Developer tidak perlu lagi melakukan hal spesifik tersebut.

Alih-alih menggunakan Java atau Objective C maupun Swift, Developer hanya butuh belajar bahasa pemrograman Javascript untuk bisa membuat aplikasi dengan menggunakan platform ini. Javascript sendiri biasa digunakan oleh para developer dalam membuat website.

Dengan menggunakan platform ini, Developer hanya perlu membuat satu aplikasi. Developer tidak perlu lagi membuat banyak versi aplikasi yang compatible dengan sistem operasi yang ada.

2.2. Kelebihan 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 simpel

React Native lebih mudah dipelajari daripada 'Native'. Hal ini dikarenakan kode yang digunakan lebih simpel. Untuk developer yang terbiasa dengan Javascript, menggunakan HTML, dan sejenisnya tentu akan merasa sangat familiar ketika dihadapkan dengan React Native.

Selain kode yang digunakan lebih simpel, developer 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.

Perusahaan hanya perlu merekrut satu orang developer yang menguasai React Native dan bisa menghasilkan aplikasi yang bisa berjalan di dua sistem operasi sekaligus.

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 tentunya akan membutuhkan banyak sumber daya.

2.3. Kelemahan React Native

React native memiliki beberapa kelemahan sebagai berikut :

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

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 developer harus menyediakan Macbook.

d. Performance

Saat ini masih ada perdebatan terkait kinerja React Native secara umum di kalangan developer.

BAB II

PEMBAHASAN

Tugas Praktikum

1. Instalasi react native.

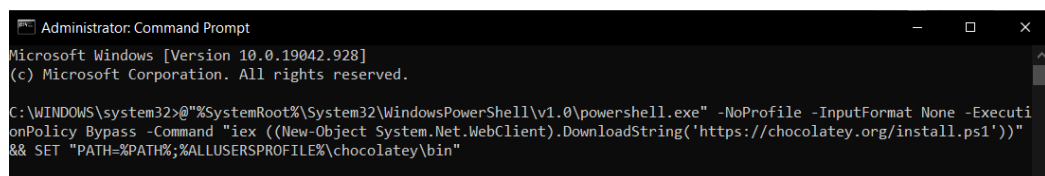
Pembahasan

Berikut adalah langkah-langkah instalasi react native untuk sistem operasi windows 10.

Chocolatey adalah package manager di level operating system, seperti halnya package manager lainnya, fungsi dari Chocolatey adalah mengatur dan mengotomasi program dalam komputer, seperti install, upgrade, dan menghapus program.

Tujuan penggunaan Chocolatey adalah auto consume, yaitu memungkinkan untuk mengatur program dengan relatif mudah. Install dan upgrade program lebih sederhana hanya dengan beberapa perintah.

Instalasi Chocolatey dilakukan untuk selanjutnya melakukan instalasi package selanjutnya yaitu node.js, python dan jdk.



```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

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"
```

Gambar 2.1 Install chocolatey.

Berikut adalah tampilan Chocolatey yang sudah selesai di instal melalui command prompt.

```

Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

C:\WINDOWS\system32>choco install -y nodejs.install python2 jdk8

le -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)
Not using proxy.
Getting latest version of the Chocolatey package for download.
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\muham\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\muham\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\muham\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\muham\OneDrive\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 2.2 Chocolatey done installed.

Setelah selesai melakukan instalasi chocolatey, selanjutnya adalah melakukan instalasi node.js, python2 dan jdk8.

```
C:\WINDOWS\system32>choco install -y nodejs.install python2 jdk8
```

Gambar 2.3 Install node.js, python2 dan jdk8.

Berikut adalah tampilan setelah instalasi node.js, python2 dan jdk8 selesai dilakukan.

```

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://javadl.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'

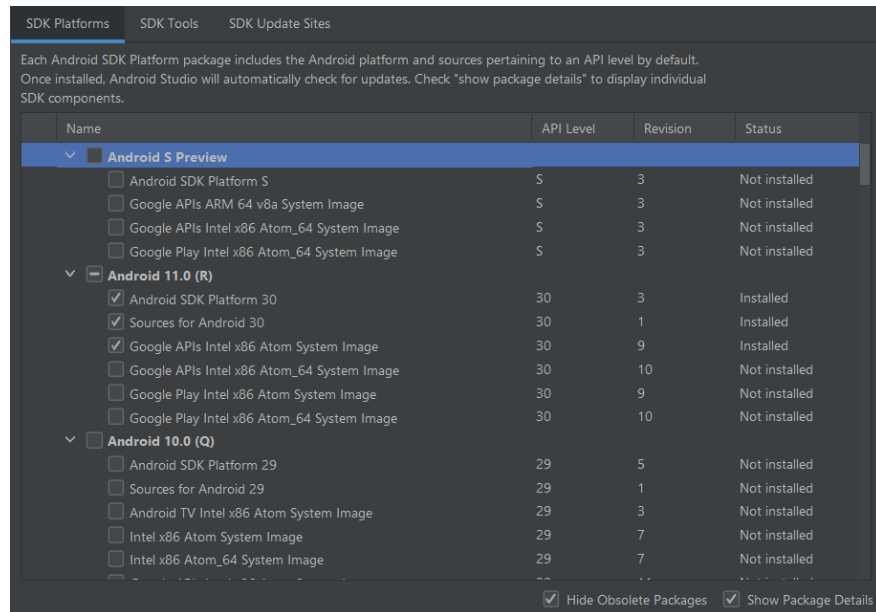
Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).

C:\WINDOWS\system32>

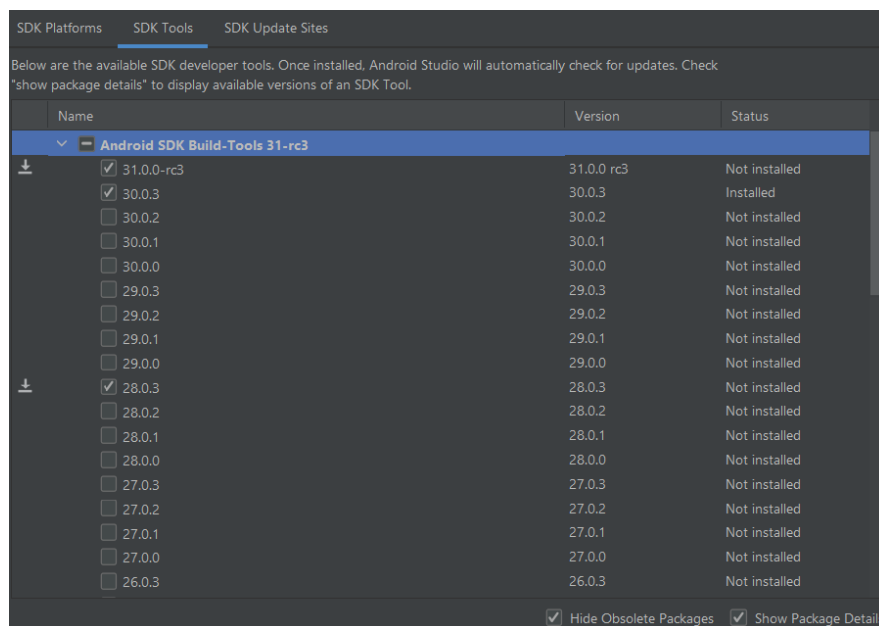
```

Gambar 2.4 Node.js, python2 dan jdk8 done installed.

Langkah selanjutnya adalah menginstal aplikasi android studio, berikut adalah konfigurasi SDK pada android studio.

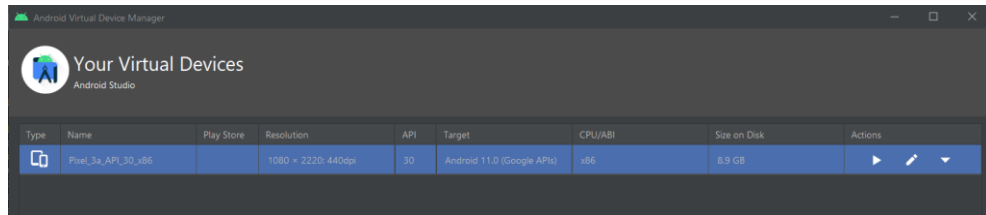


Gambar 2.5 Android studio SDK platforms configuration.



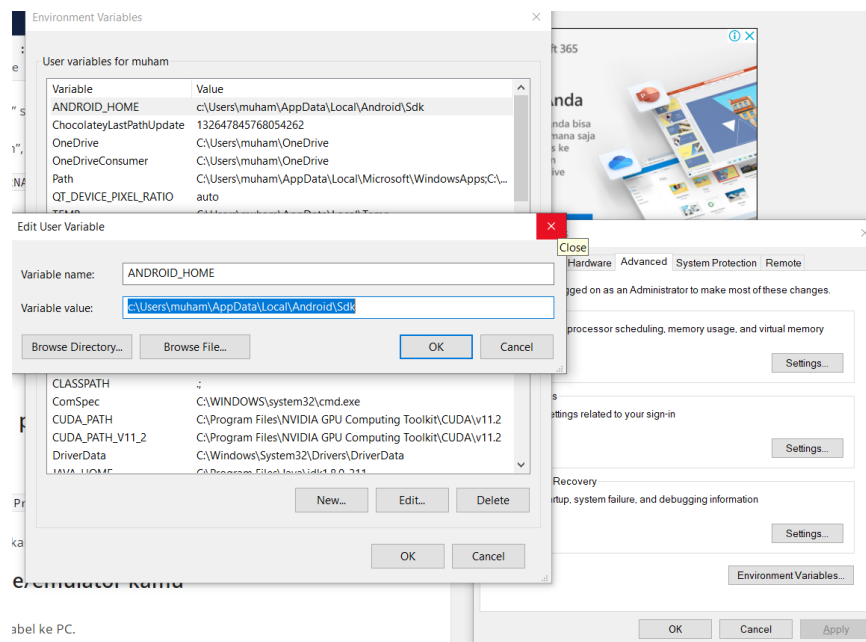
Gambar 2.6 Android studio SDK tools configuration.

Selanjutnya membuat virtual device dibuat untuk menggantikan ponsel atau emulator android. Virtual device dibuat menggunakan android studio dengan target SO Android 11.0.

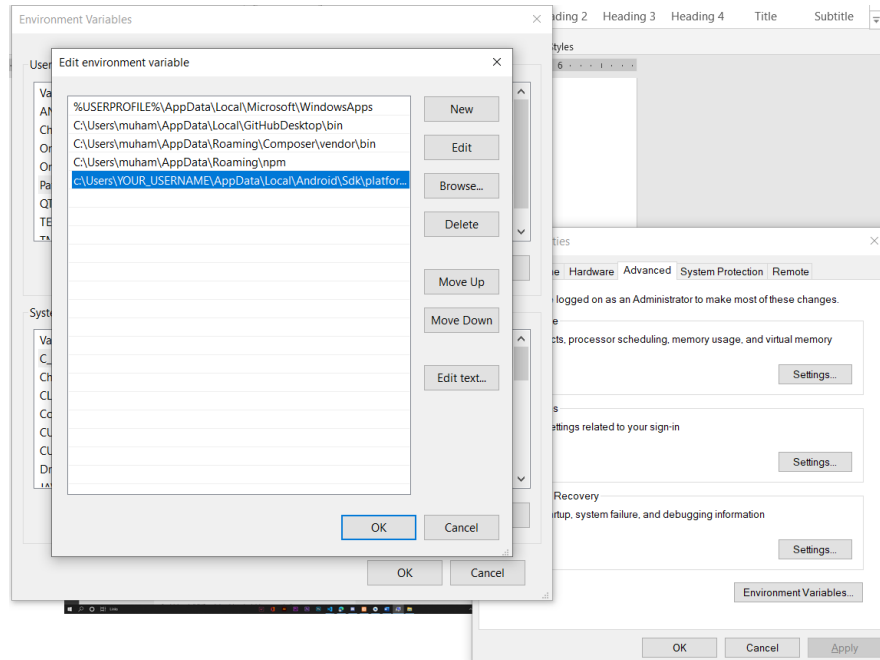


Gambar 2.7 Virtual device on android studio.

Langkah selanjutnya adalah melakukan konfigurasi path, berikut adalah konfigurasi path pada user dan system variables.



Gambar 2.8 PATH configuration.



Gambar 2.9 PATH configuration.

Berikut adalah proses instalasi react native.

```
C:\Users\muham>npm install -g react-native-cli
added 81 packages, and audited 82 packages in 9s
36 packages are looking for funding
  run `npm fund` for details
found 0 vulnerabilities
C:\Users\muham>
```

Gambar 2.10 Install react native.

Setelah selesai melakukan instalasi react native, langkah selanjutnya adalah create project. Library react native akan mulai di download dari internet.

```
C:\WINDOWS\system32\cmd.exe
C:\Users\muham>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Users\muham\ProjectSaya
'yarn' is not recognized as an internal or external command,
operable program or batch file.
Consider installing yarn to make this faster: https://yarnpkg.com
Installing react-native...
npm WARN deprecated urijs@0.1.0: Please see https://github.com/lydell/urijs#deprecated
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated uglify-es@3.3.5: support for ECMAScript is superseded by 'uglify-js' as of v3.13.0
added 718 packages, and audited 719 packages in 2m
18 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities

Info: Setting up new React Native app in C:\Users\muham\ProjectSaya
(node:18032) 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 request@2.88.2: request has been deprecated, 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 updates.
added 458 packages, and audited 1177 packages in 53s
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 5s
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:\Users\muham\ProjectSaya" && npx react-native run-android

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

Gambar 2.11 Create project.

Cek device apa saja yang terpasang melalui ADB (Android Debug Bridge).

```
C:\Users\muham>adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached
emulator-5554    device
```

Gambar 2.12 Cek device yang terpasang.

Untuk menjalankan aplikasi, terlebih dulu masuk ke dalam direktori tempat project dibuat, lalu pilih apakah aplikasi akan dijalankan di android atau iOS. Pada tugas kali ini, aplikasi akan dijalankan di android.

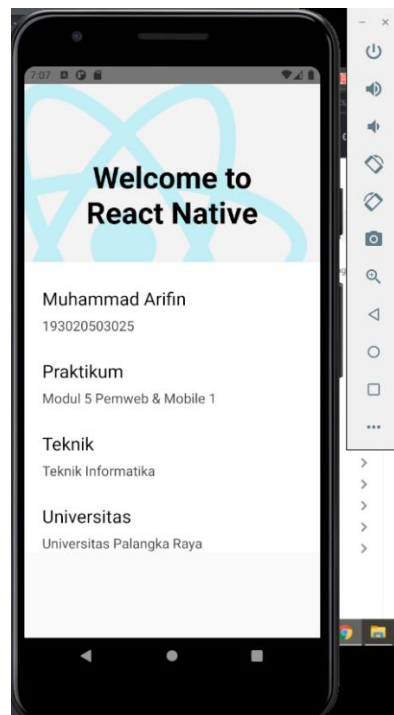

```

<View
  style={{
    backgroundColor: isDarkMode ? Colors.black : Colors.white,|
  }}>
  <Section title="Muhammad Arifin">
    193020503025
  </Section>
  <Section title="Praktikum">
    Modul 5 Pemweb & Mobile 1
  </Section>
  <Section title="Teknik">
    Teknik Informatika
  </Section>
  <Section title="Universitas">
    Universitas Palangka Raya
  </Section>
</View>

```

Gambar 2.15 App.js.

Berikut adalah tampilan project react native pada virtual device.



Gambar 2.16 Display virtual device.

BAB III

KESIMPULAN

React native merupakan sebuah framework cross-platform yang memiliki basis bahasa pemrograman JavaScript.

React native memungkinkan developer membuat mobile apps yang bisa dijalankan di dalam dua sistem operasi mobile yaitu android dan iOS.

DAFTAR PUSTAKA

Andy, 2020. Apa itu React Native dan Kenapa Cocok Digunakan untuk Perusahaan Anda?.

<https://qwords.com/blog/apa-itu-react-native/#:~:text=Apa%20Itu%20React%20Native%20React%20Native%20adalah%20framework,digunakan%20di%20berbagai%20platform%2C%20yaitu%20Android%20dan%20iOS.> (Di akses pada 09 Mei 2021 Pukul 11:57 WITA).

Rasupe, 2019. Cara install react native di windows 10.

<https://rasupe.com/cara-install-react-native-di-windows-10/> (Di akses pada 09 Mei 2021 Pukul 11:57 WITA).

LAMPIRAN

```
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

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"
```

Gambar 2.1 Install chocolatey.

```
Microsoft Windows [Version 10.0.19042.928]
(c) Microsoft Corporation. All rights reserved.

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.
Setting Chocolatey from https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\muham\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Downloading https://community.chocolatey.org/api/v2/package/chocolatey/0.10.15 to C:\Users\muham\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip
Not using proxy.
Extracting C:\Users\muham\AppData\Local\Temp\chocolatey\chocoInstall\chocolatey.zip to C:\Users\muham\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 this 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 0.9.5.
"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\muham\OneDrive\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 2.2 Chocolatey done installed.

```
C:\WINDOWS\system32>choco install -y nodejs.install python2 jdk8
```

Gambar 2.3 Install node.js, python2 dan jdk8.

```

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%

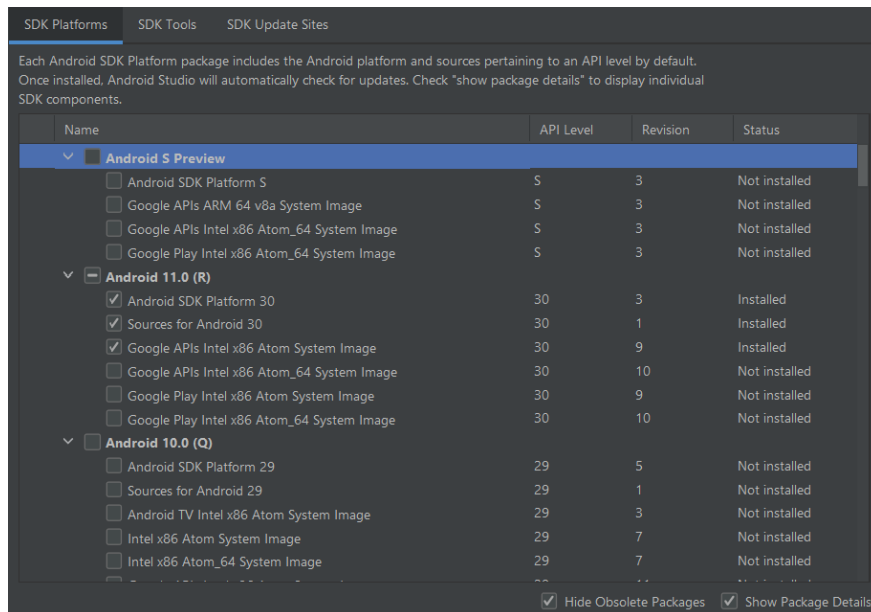
python2 v2.7.18 [Approved]
python2 package files install completed. Performing other installation steps.
Installing 64-bit python2...
python2 has been installed.
Installed to 'C:\Python27'
Adding C:\Python27 to PATH if needed
python2 may be able to be automatically uninstalled.
Environment Vars (like 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-b12/478a62b7d4e34b78b671c754eaf38ab/windows-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\'

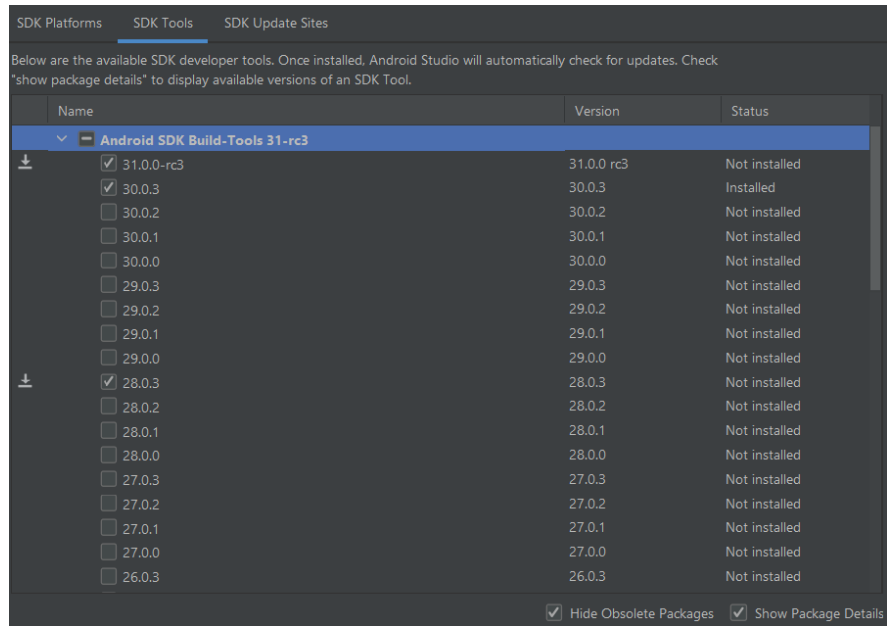
Chocolatey installed 3/3 packages.
See the log for details (C:\ProgramData\chocolatey\logs\chocolatey.log).
C:\WINDOWS\system32>

```

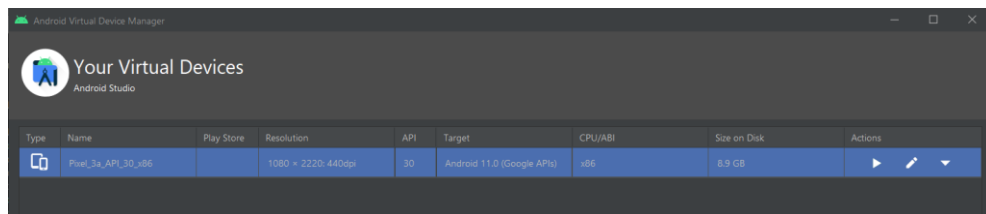
Gambar 2.4 Node.js, python2 dan jdk8 done installed.



Gambar 2.5 Android studio SDK platforms configuration.



Gambar 2.6 Android studio SDK tools configuration.



Gambar 2.7 Virtual device on android studio.


```

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

added 81 packages, and audited 82 packages in 9s

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

found 0 vulnerabilities

C:\Users\muham>

```

Gambar 2.10 Install react native.

```

C:\WINDOWS\system32\cmd.exe
C:\Users\muham>react-native init ProjectSaya
This will walk you through creating a new React Native project in C:\Users\muham\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@3.1.5: support for ECMAScript is superseded by 'uglify-js' as of v3.13.0
added 718 packages, and audited 719 packages in 2m

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

found 0 vulnerabilities
Info: Setting up new React Native app in C:\Users\muham\ProjectSaya
(node:18032) 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 request@2.88.2: request has been deprecated, 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 updates.
added 458 packages, and audited 1177 packages in 53s

78 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 5s

78 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\muham\ProjectSaya" && npx react-native run-android

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

```

Gambar 2.11 Create project.

```

C:\Users\muham>adb devices
* daemon not running; starting now at tcp:5037
* daemon started successfully
List of devices attached
emulator-5554    device

```

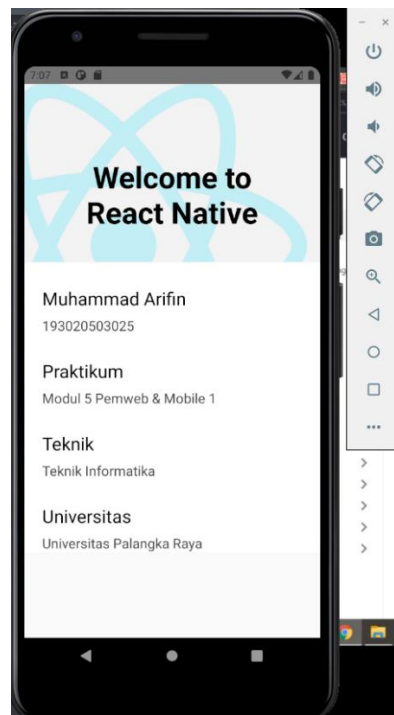
Gambar 2.12 Cek device yang terpasang.


```

<View
  style={{
    backgroundColor: isDarkMode ? Colors.black : Colors.white,|
  }}>
  <Section title="Muhammad Arifin">
    193020503025
  </Section>
  <Section title="Praktikum">
    Modul 5 Pemweb & Mobile 1
  </Section>
  <Section title="Teknik">
    Teknik Informatika
  </Section>
  <Section title="Universitas">
    Universitas Palangka Raya
  </Section>
</View>

```

Gambar 2.15 App.js.



Gambar 2.16 Display virtual device.