# **Laporan Project Mata Kuliah Mobile Computing**



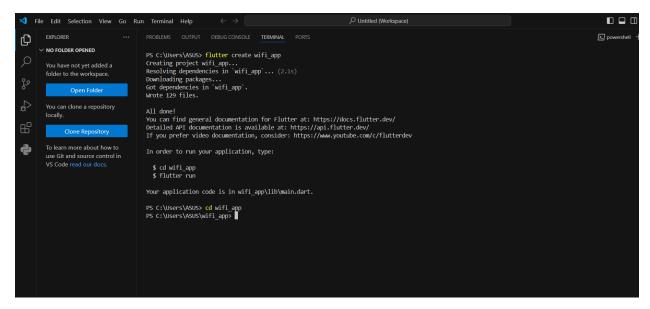
Disusun Oleh:

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TI-4A
TEKNIK INFORMATIKA
TEKNIK INFORMATIKA DAN KOMPUTER
POLITEKNIK NEGERI JAKARTA
2024

#### Flutter WIFI

## 1. Bagian wifi:



Setelah berhasil buka file - new file - ke folder C - users - user dan cari wifi\_app dan klik open folder.

Setelah terbuka pilih file pubspec.yaml dan masukkan "wifi\_info\_flutter: ^2.0.2 dan ctrl + s untuk menyimpan.

```
PS C:\Users\ASUS\wifi app> flutter pub get
Resolving dependencies...
Downloading packages...
  collection 1.18.0 (1.19.0 available)
  flutter_lints 3.0.2 (4.0.0 available)
  leak tracker 10.0.4 (10.0.5 available)
  leak_tracker_flutter_testing 3.0.3 (3.0.5 available)
  lints 3.0.0 (4.0.0 available)
  material color utilities 0.8.0 (0.12.0 available)
  meta 1.12.0 (1.15.0 available)
  string_scanner 1.2.0 (1.3.0 available)
  test api 0.7.0 (0.7.3 available)
  vm service 14.2.1 (14.2.4 available)
  wifi_info_flutter 2.0.2 (discontinued)
Got dependencies!
1 package is discontinued.
10 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
PS C:\Users\ASUS\wifi app>
```

### Lalu kembali ke terminal dan seperti gambar "flutter pub get"

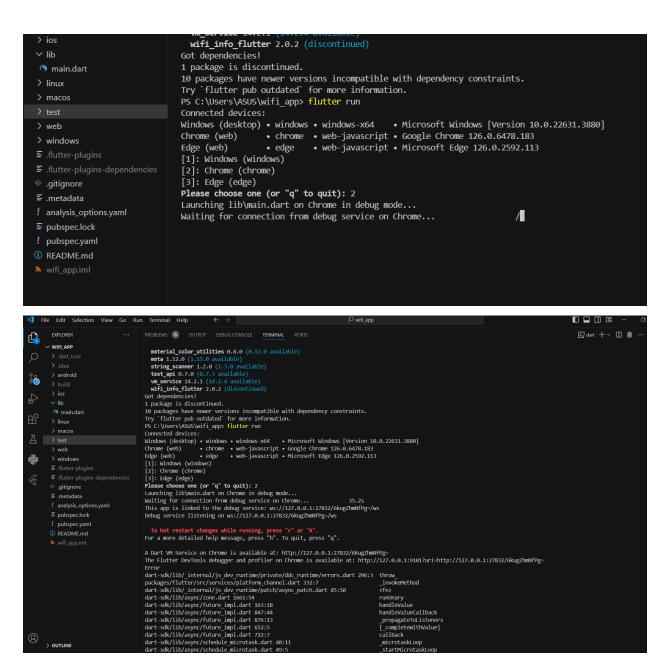
```
File Edit Selection View Go Run Terminal Help
        EXPLORER
                                                                nain.dart X
C

✓ WIFI APP

                                             import 'package:flutter/material.dart';
import 'package:wifi_info_flutter/wifi_info_flutter.dart';
                                                  Run | Debug | Profile
void main() {
       > ios
                                                   runApp(MyApp());
        > linux
                                            9 @override
10 Widget build(BuildContext context) {
                                                       title: 'Wi-Fi App', home: Scaffold(
        > windows
                                                        appBar: AppBar(
                                                            title: Text('Wi-Fi Info'),
), // AppBar
       .gitignore
                                                          ), // AppBar
body: Center(
        ! analysis_options.yaml
                                                           child: ElevatedButton(

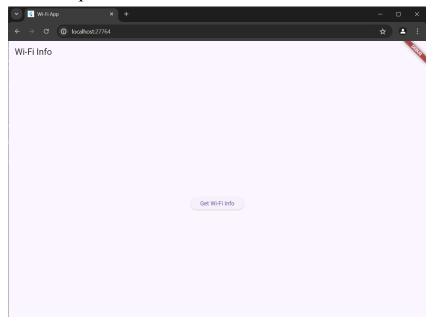
■ pubspec.lock

                                                                  // Menggunakan WifiInfo untuk mendapatkan informasi Wi-Fi
String wifiName = await WifiInfo().getWifiName() ?? 'N/A';
        ! pubspec.yaml
        ① README.md
                                                                    String wifiIP = await WifiInfo().getWifiIP() ?? 'N/A';
                                                                    String wifiBSSID = await WifiInfo().getWifiBSSID() ?? 'N/A';
```



Lalu setelah itu ketik lagi "terminal run" dan enter lagi.

#### Hasil output:



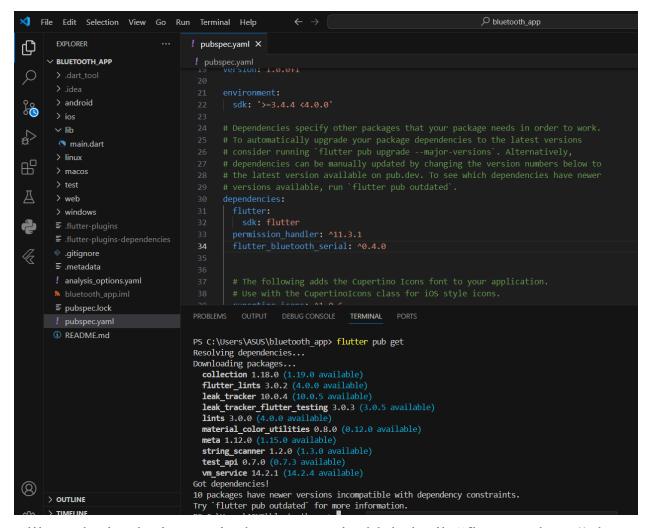
### 2. Bagian Bluetooth:

```
PS C:\Users\ASUS> flutter create bluetooth_app
Creating project bluetooth_app...
Resolving dependencies in `bluetooth_app`... (1.9s)
Downloading packages...
Got dependencies in `bluetooth_app`.
Wrote 129 files.
All done!
You can find general documentation for Flutter at: https://docs.flutter.dev/
Detailed API documentation is available at: https://api.flutter.dev/
If you prefer video documentation, consider: https://www.youtube.com/c/flutterdev
In order to run your application, type:
 $ cd bluetooth app
 $ flutter run
Your application code is in bluetooth_app\lib\main.dart.
PS C:\Users\ASUS> cd bluetooth app
PS C:\Users\ASUS\bluetooth_app>
```

Untuk bagian bluetooth langkah menginstalnya juga sama seperti wifi. File - new windows - terminal - new terminal - lalu ketik "flutter create bluetooth app" dan enter.

Selanjutnya ketik "cd bluetooth\_app" dan enter. Jika sudah buka file C-USERS-USER- dan cari bluetooth\_app"

Pada file pubspec.yaml tambahkan code yang ada di line 33-34 dan sejajarkan dengan dependencies.



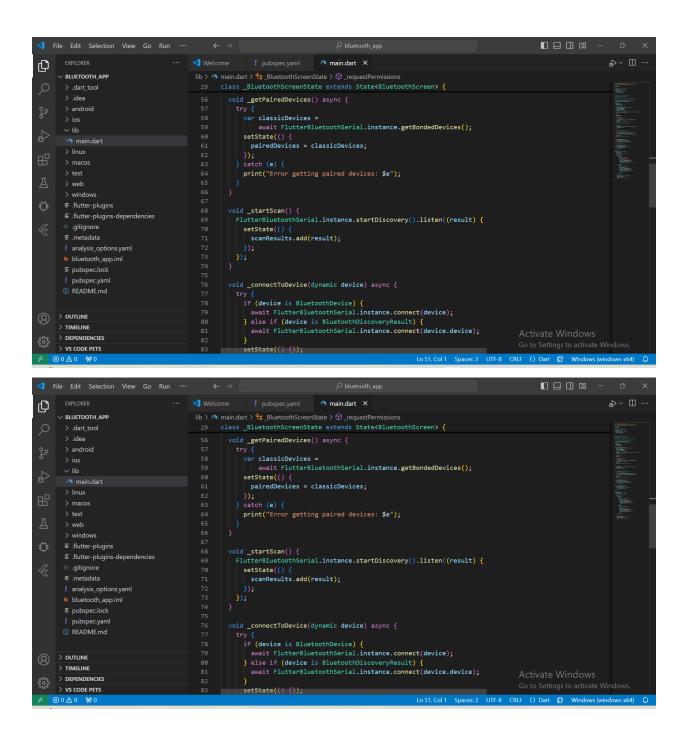
Klik tanda tiga lagi - terminal - new terminal lalu ketik "flutter pub get" dan enter.

Pada folder lib - main.dart lalu masukkan code yang tertera digambar. Lalu ctrl + S

```
∨ BLUETOOTH APP
                                                  List<BluetoothDevice> pairedDevices = [];
List<BluetoothDiscoveryResult> scanResults = [];
                                                    @override
                                                    _requestPermissions();
}
                                                    void _requestPermissions() async [ | Map<Permission, PermissionStatus> statuses = await [
 > windows
                                                      Permission.bluetooth,
Permission.bluetoothScan,
Permission.bluetoothConnect,
Permission.locationWhenInUse,

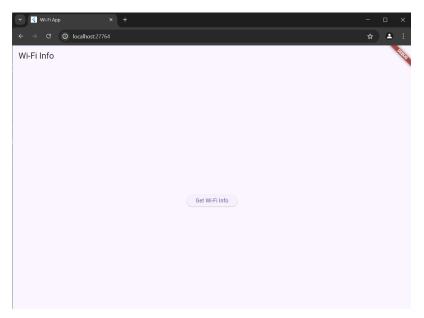
■ .flutter-plugins-dependencies

 gitignore
 ].request();
 ! analysis_options.yaml
 ■ bluetooth_app.iml
                                                      if (statuses[Permission.locationWhenInUse] != PermissionStatus.granted) {
 (i) README md
                                                       _getPairedDevices();
                                                       _startScan();
> DEPENDENCIES
                                                    void _getPairedDevices() async {
> VS CODE PETS
```



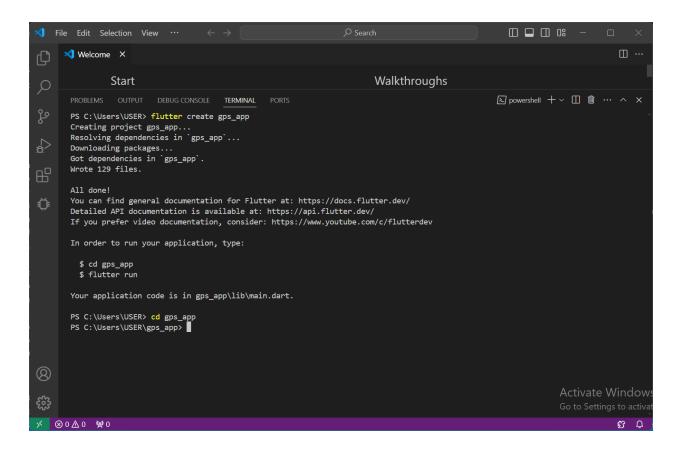
Jika sudah selesai lakukan langkah-langkah seperti wifi\_app. Klik tanda tiga diatas - terminal - new terminal - dan ketik "flutter run" lalu enter

## Hasil Output:

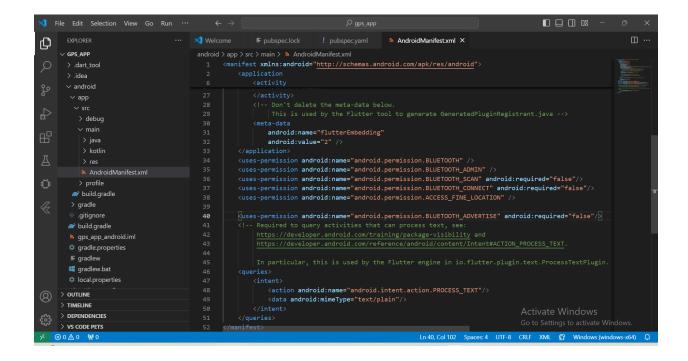


Note: ketika ingin melakukan "Run" harus menyalakan bluetooth yang ada pada laptop. Jika perangkat laptop pernah terhubung pada hp atau perangkat lain selain earphone akan ada tulisannya pada hasil output.

## 3. Bagian Gps

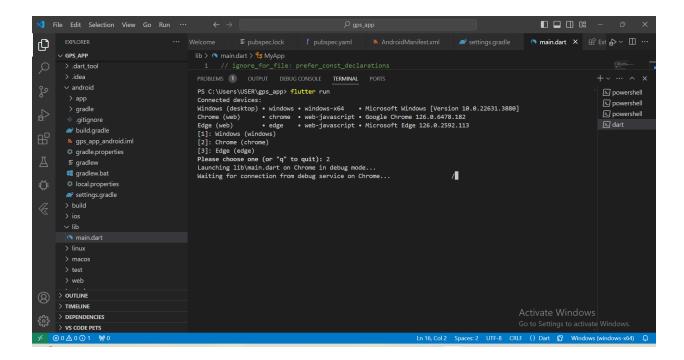


Pilih tanda titik tiga diatas - terminal - new terminal - ketik "flutter create gps\_app" lalu enter. Kemudia dibawahnya Ketik lagi "cd gps\_app" lalu enter



# Klik android - app - src - main - androidManifest.xml dibagian bawah application masukkan code berikut ini.

## Jika sudah ke bagian meta-data dan tambahkan code berikut.



#### Output:

