Laporan Project Mata Kuliah Mobile Computing



Disusun Oleh:

Tia Anata (2207411012)

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

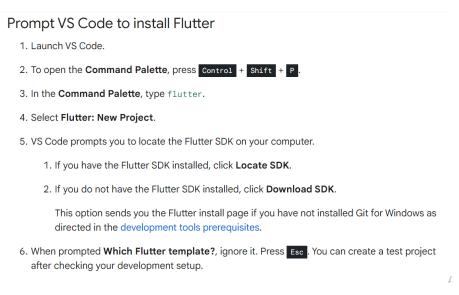
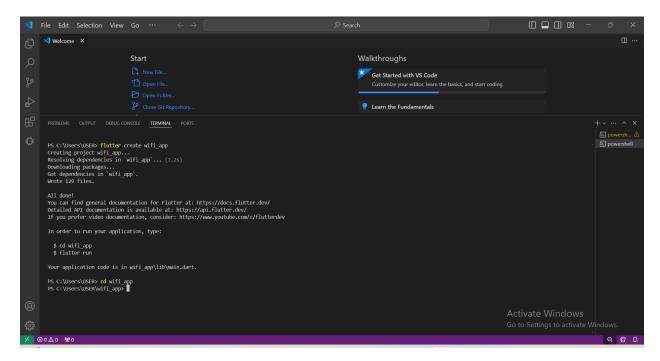
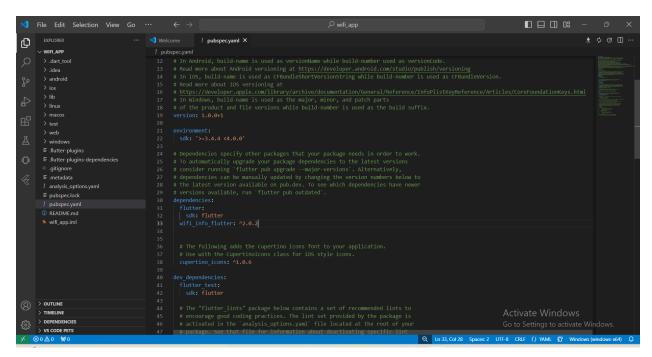


Foto diatas adalah cara untuk mengunduh flutter. Langkah pertama instal flutter, choco, dan java terlebih dahulu setelah itu di viscode pilih tanda titik tiga - new terminal dan ketik "flutter create wifi_app" dan kemudian enter

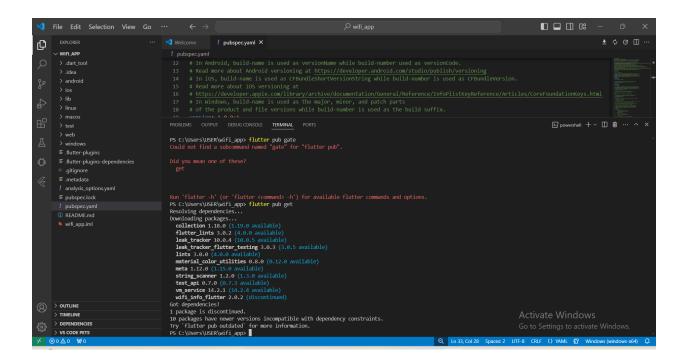
1. Bagian wifi:



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

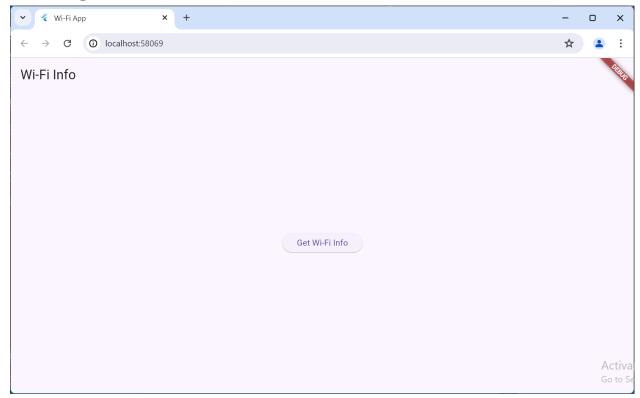


Setelah terbuka pilih file pubspec.yaml dan masukkan "wifi_info_flutter: ^2.0.2 dan ctrl + s untuk menyimpan.

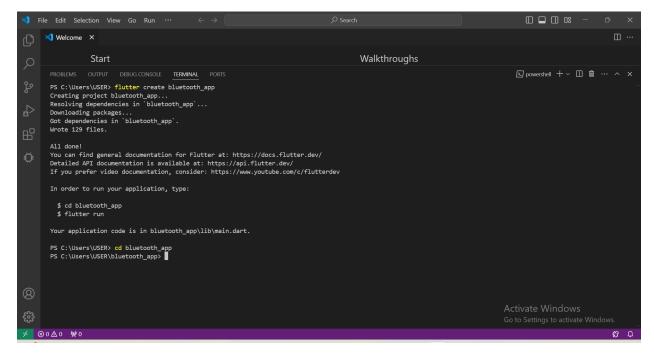


Setelah itu pilih tanda titik tifa diatas - terminal - new terminal - dan ketik "flutter pub get" dan enter. Lalu setelah itu ketik lagi "terminal run" dan enter lagi.

Hasil output:

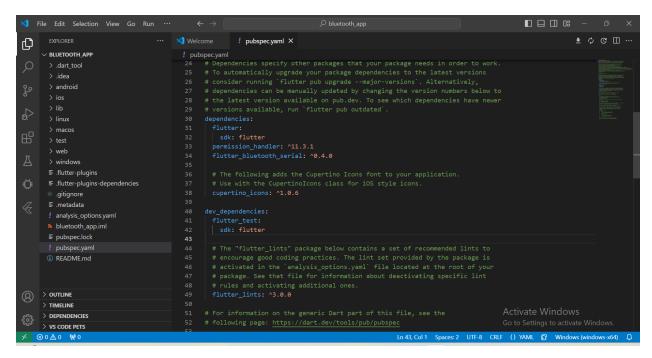


2. Bagian Bluetooth:

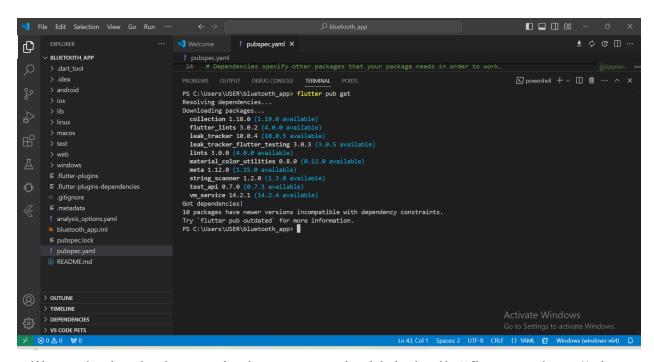


Untuk bagian bluetooth langkah menginstalnya juga sama seperti wifi. File - new windows - terminal - new terminal - lalu ketik "flutter create bluetooth app" dan enter.

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.

```
≺ File Edit Selection View Go Run ···
                                                                                                                                                                         import 'package:flutter/material.dart';
import 'package:flutter_bluetooth_serial/flutter_bluetooth_serial.dart';
import 'package:permission_handler/permission_handler.dart';
        main.dart
                                                            Run | Debug | Profile
void main() {
                                                           runApp(MyApp());
}
        > macos
                                                           class MyApp extends StatelessWidget {
  const MyApp({super.key});
        > windows

■ .flutter-plugins

                                                              @override
                                                              Widget build(BuildContext context) {
        gitignore
                                                                 title: 'Bluetooth App',
home: BluetoothScreen(),
                                                            class BluetoothScreen extends StatefulWidget {
                                                              @override
      > TIMELINE
      > DEPENDENCIES
      > VS CODE PETS
```

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

```
! pubspec.yaml 🧥 main.dart 🗙
                                                        lib > ♠ main.dart > ❤ BluetoothScreenState > ♦ requestPermissions
      ∨ BLUETOOTH APP
        > .dart tool
                                                         29 class _BluetoothScreenState extends State<BluetoothScreen> {
                                                                   List<BluetoothDevice> pairedDevices = [];
        > android
                                                                  _requestPermissions();
}
                                                                    {\color{red} \textbf{void} } \_{\textbf{requestPermissions()}} \  \, {\color{blue} \textbf{async}} \  \, {\color{blue} \{} \\ {\color{blue} \textbf{()}}
                                                                     Map(Permission, PermissionS(x async map)
Map(Permission, Dluetooth,
Permission.bluetoothCan,
Permission.bluetoothConnect,
Permission.locationWhenInUse,

    ■ .flutter-plugins-dependencies

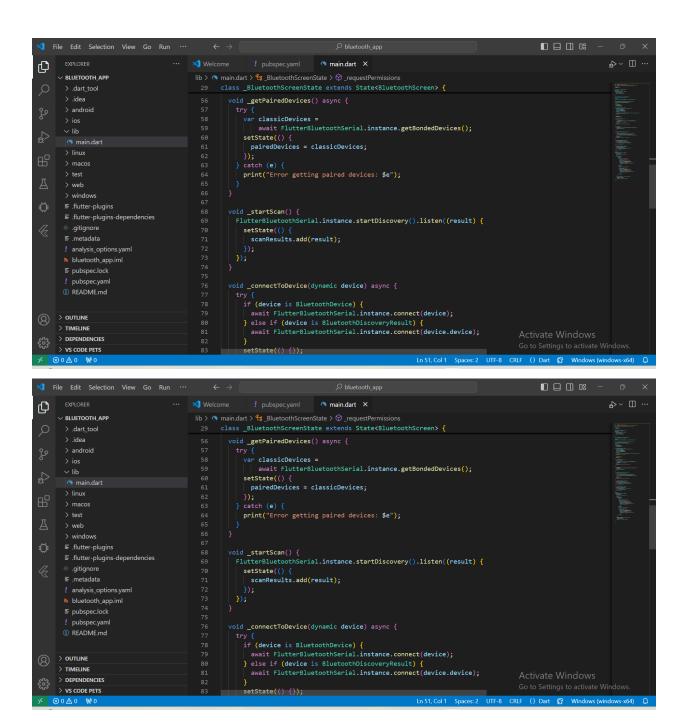
        gitignore
        ≣ .metadata
        ! analysis_options.yaml
        bluetooth app.iml

    pubspec.lock

        ! pubspec.vaml

 README.md

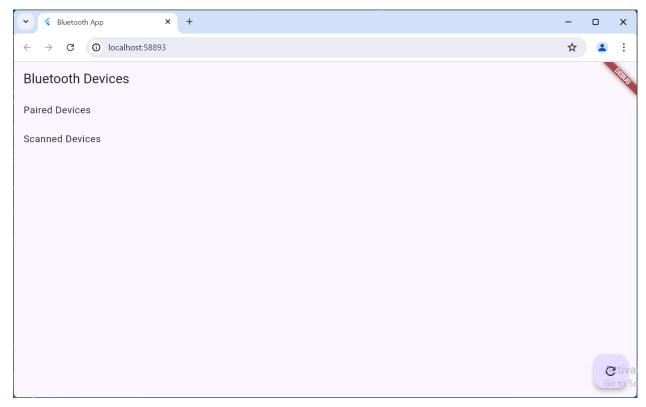
                                                                      getPairedDevices();
> OUTLINE
       > TIMELINE
       > DEPENDENCIES
                                                                  void _getPairedDevices() async {
      > VS CODE PETS
```



```
≺ File Edit Selection View Go Run ···
                                                                                     29 class_BluetoothScreenState extends State(BluetoothScreen> {
76    void _connectToDevice(dynamic device) async {
                                                                         String _getDeviceName(dynamic device) {
   if (device is BluetoothDevice) {
      return device.name ?? 'Unknown Device
          nain.dart
                                                                           return device.name ?? 'Unknown Device';
} else if (device is BluetoothDiscoveryResult) {
return device.device.name ?? 'Unknown Device';
          > linux
          > windows
                                                                          String _getDeviceId(dynamic device) {
   if (device is BluetoothDevice) {
                                                                           return device.address;
} else if (device is BluetoothDiscoveryResult) {
                                                                          Widget build(BuildContext context) {
> outline
> timeline
                                                                              appBar: AppBar(
    title: Text('Bluetooth Devices'),
       > DEPENDENCIES
       > VS CODE PETS
```

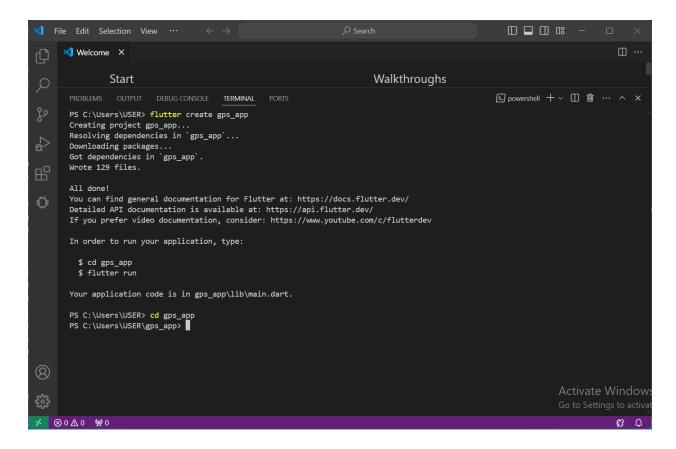
Jika sudah selesai lakukan langkah-langkah seperti wifi_app. Klik tanda tiga diatas - terminal - new terminal - dan ketik "flutter run" lalu enter

Hasil Output:

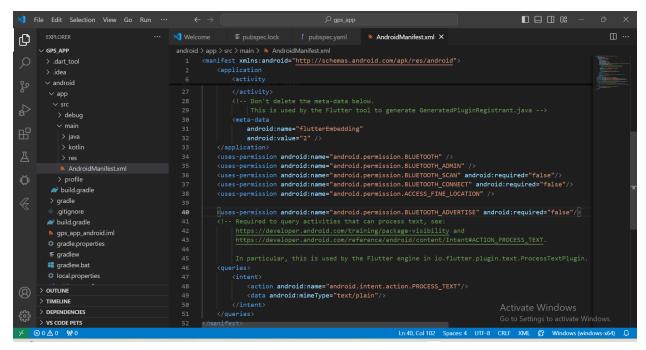


Note: ketika ingin melakukan "Run" harus menyalakan bluetooth yang ada pada laptop. Jika perangkat laptop pernah terhubung pada hp atau perangkat lain selain earphone akan ada tulisannya pada hasil output.

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.

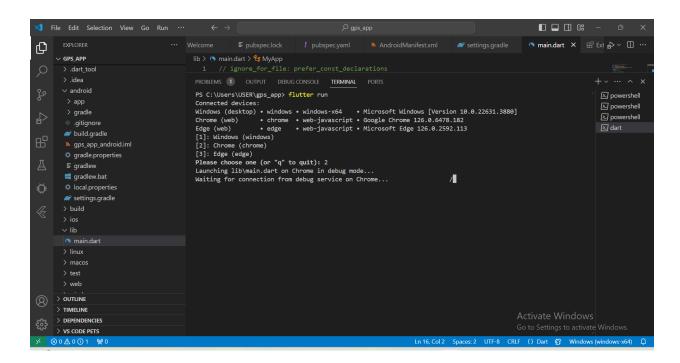
<meta-data

android:name="com.google.android.geo.API_KEY" android:value="AIzaSyBQEuiXMJseti4EmnL1LvlizXQfCTrPeF8"/>

<uses-permission android:name="android.permission.INTERNET"/>
<uses-permission</pre>

android:name="android.permission.ACCESS_FINE_LOCATION" /> <uses-permission

android:name="android.permission.ACCESS COARSE LOCATION" />



Output:

