

# DESARROLLO DE APP MOVILES I GONZALEZ DIAZ ANSELMO ALEXIS Aarón Hernández García

Maps

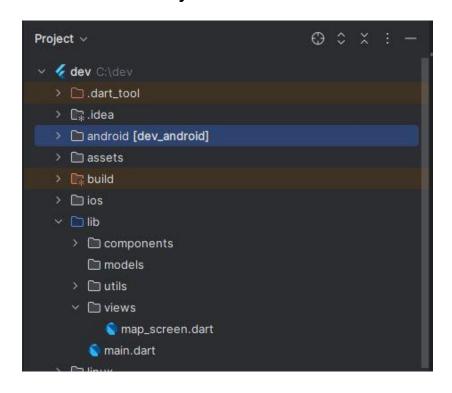
#### 1.- Pubspec.yaml (Dependencias: Pub Get)

```
dependencies:
    flutter:
    sdk: flutter

# The following adds the Cupertino Icons font to your application.
# Use with the CupertinoIcons class for iOS style icons.
cupertino_icons: ^1.0.8
lottie: ^3.3.1
page_transition: ^2.2.1
latlong2: ^0.9.1
http: ^1.2.1
url_launcher: ^6.2.5
flutter_map: ^8.1.1
geolocator: ^13.0.2
permission_handler: ^11.4.0
```

#### 2.- AndroidManifest.xml (Permisos)

#### 3. Estructura del Proyecto



#### 4. Main.dart

```
main.dart ×

import 'package:dev/views/map_screen.dart';

import 'package:flutter/material.dart';

void main() {
    runApp(MyApp());
}

class MyApp extends StatelessWidget {
    @override
    Widget build(BuildContext context) {
    return MaterialApp(
    debugShowCheckedModeBanner: false,
    home: MapScreen(),
    ); // MaterialApp
}

// MaterialApp
```

#### 4. MapScree.dart (Librerias

```
import 'package:flutter/material.dart';
import 'package:flutter_map/flutter_map.dart';
import 'package:latlong2/latlong.dart';
import 'package:geolocator/geolocator.dart';
import 'package:permission_handler/permission_handler.dart';
```

#### 5. MapScreen.dart

```
class MapScreen extends StatefulWidget {
    @override
    _MapScreenState createState() => _MapScreenState();
}

class _MapScreenState extends State<MapScreen> {
    LatIng? _currentLocation;
    final MapController _mapController = MapController();

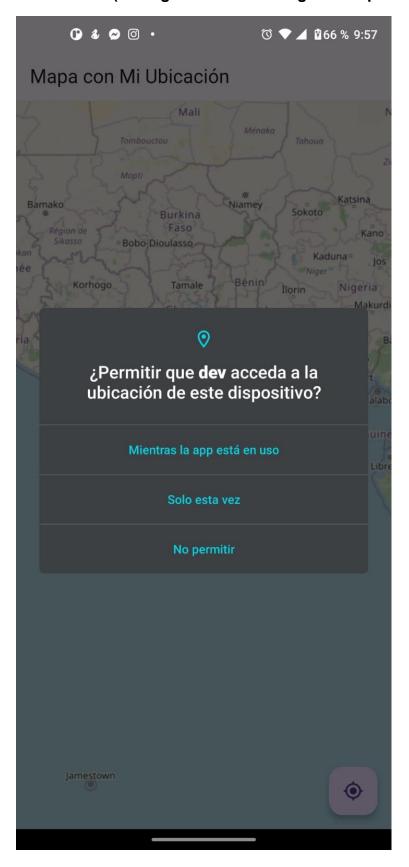
    @override
    void initState() {
        super.initState();
        _getLocation();
}
```

#### 6. MapScreen.dart (Geolocation)

#### 7. MapScreen.dart (Builder)

```
@override
Widget build(BuildContext context) {
 return Scaffold(
   appBar: AppBar(title: Text("Mapa (Aaron Hdez García")),
   body: FlutterMap(
     mapController: _mapController,
     options: MapOptions(
       initialCenter: _currentLocation ?? LatLng(0, 0),
       initialZoom: 5.0,
     children: [
         urlTemplate: 'https://tile.openstreetmap.org/{z}/{x}/{y}.png',
         userAgentPackageName: 'com.example.app',
       if (_currentLocation != null)
         MarkerLayer(
           markers: [
             Marker(
               point: _currentLocation!,
               width: 50,
              height: 50,
              child: Icon(Icons.location_on, color: Colors.red, size: 40),
   floatingActionButton: FloatingActionButton(
     onPressed: _getLocation,
     child: Icon(Icons.my_location),
```

### 8. Emulador (Moto g9 >Pantalla emergente de permisos)



## 8. Emulador (Moto g9 >General)

