



## **Mental Health Diagnosis**

Faculty of Information and Communication Technology



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## Task-I Adding Google Maps to a Flutter App

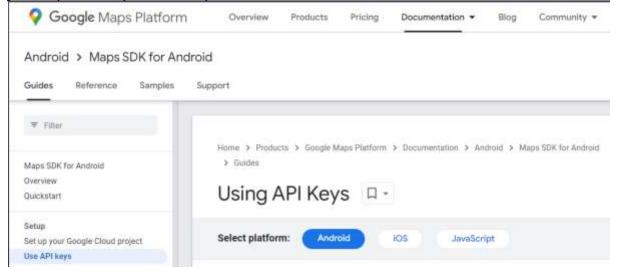
## Adding Google Maps Flutter plugin as a dependency

In order to include Google Maps in our app, we need to utilize the Google Maps Flutter plugin. This can be done by executing the following command within the project directory.



# Including Google Maps in our app involves integrating the Google Maps functionality using the appropriate tools and plugins.

Incorporating Google Maps into a Flutter application requires setting up an API project with the Google Maps Platform. This involves configuring API keys for the Maps SDK for Android, Maps SDK for iOS, and Maps JavaScript API, as per their respective documentation.



Add Google Maps to your Android app, get an API key from Google and add it to your app's settings.

Adding an API key for an iOS app

Adding an API key for a Web app

```
web > <> index.html > <a> html > </a> html > <a> h
```

Putting a map on the screen

```
lib > 🦠 main.dart > ...
      import 'package:flutter/material.dart';
       import 'package:google maps flutter/google maps flutter.dart';
      Run | Debug | Profile
      void main() => runApp(const MyApp());
      class MyApp extends StatefulWidget {
        const MyApp({super.key});
        @override
        State<MyApp> createState() => MyAppState();
 11
 12
       class MyAppState extends State<MyApp> {
        late GoogleMapController mapController;
         final LatLng center = const LatLng(45.521563, -122.677433);
        void onMapCreated(GoogleMapController controller) {
           mapController = controller;
```

#### Put Google on the Map

```
PS D:\Dev\google maps in flutter> flutter pub add http
Resolving dependencies...
+ http 1.2.0
+ http_parser 4.0.2
 js 0.6.7 (0.7.0 available)
 matcher 0.12.16 (0.12.16+1 available)
 material_color_utilities 0.5.0 (0.8.0 available)
 meta 1.10.0 (1.11.0 available)
 path 1.8.3 (1.9.0 available)
 test api 0.6.1 (0.7.0 available)
+ typed data 1.3.2
 web 0.3.0 (0.4.2 available)
Changed 3 dependencies!
7 packages have newer versions incompatible with dependency constraints.
Try `flutter pub outdated` for more information.
PS D:\Dev\google maps in flutter>
```

First, make sure to create the assets directory before pasting the data. Once the asset file is downloaded, you can add it to the "flutter" section of the pubsics you like

can add it to the "flutter" section of the pubspec.yaml file.

Change the main.dart file to fetch map data. Then, utilize the received information to mark offices on the map.

```
lib > Main.dart > ...
import 'package:flutter/material.dart';
import 'package:google_maps_flutter/google_maps_flutter.dart';
import 'src/locations.dart' as locations;

Run | Debug | Profile
void main() {
    runApp(const MyApp());
}

class MyApp extends StatefulWidget {
    const MyApp({super.key});

@override
State<MyApp> createState() => _MyAppState();

}

class _MyAppState extends State<MyApp> {
    final Map<String, Marker> _markers = {};
    Future<void> _onMapCreated(GoogleMapController controller) async {
        final googleOffices = await locations.getGoogleOffices();
        setState() {
```

### **Problems:**

This task familiarized us with integrating Google Maps into a Flutter app, which is a straightforward process. The code we developed is highly reusable for future projects. Although we couldn't test it on an emulator due to the lack of Google Maps Platform APIs, once we acquire valid API keys from an account with proper billing information, this code will function flawlessly. It will successfully display a map showcasing the locations of Google offices.