

Flutter Google Maps Integration: Adding Interactive Maps

Subtitle: Learn how to embed interactive Google Maps in Flutter apps for location-based features.

Website Name: haas.dev

Website Link: <https://dev-roast-app.vercel.app>

Introduction

Location features are critical for apps like **delivery, travel, or ride-sharing**. Google Maps integration allows you to **display maps, markers, and user location** in your Flutter app.

Step 1: Add Dependencies

```
dependencies:  
  google_maps_flutter: ^2.3.0  
  geolocator: ^10.4.0
```

Run:

```
flutter pub get
```

Import in Dart:

```
import 'package:google_maps_flutter/google_maps_flutter.dart';  
import 'package:geolocator/geolocator.dart';
```

Step 2: Get User Location

```
Future<Position> getCurrentLocation() async {  
  return await Geolocator.getCurrentPosition(  
    desiredAccuracy: LocationAccuracy.high);  
}
```

Exercise: Print the user's latitude and longitude.

Step 3: Display Google Map

```
GoogleMap(  
  initialCameraPosition: CameraPosition(  
    target: LatLng(37.42796133580664, -122.085749655962),  
    zoom: 14.0,  
  ),  
  markers: Set<Marker>.of(markers),  
)
```

Exercise: Display a map centered at a default location with a single marker.

Step 4: Add Dynamic Markers

```
Set<Marker> markers = {};  
  
void addMarker(double lat, double lng, String id) {  
  markers.add(Marker(  
    markerId: MarkerId(id),  
    position: LatLng(lat, lng),  
    infoWindow: InfoWindow(title: 'Marker $id'),  
  ));  
}
```

Exercise: Add multiple markers dynamically on button click.

Step 5: Mini Project

Build a **Flutter Map App**:

- Show user's current location
 - Add markers for multiple points of interest
 - Enable map zoom and gestures
 - Bonus: Calculate distance between markers
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Key Takeaways

- Google Maps enables **location-based features in Flutter apps**
- Geolocator provides **precise user location**
- Markers and camera control improve **user interactivity**

- Mastering maps is essential for **travel, logistics, and social apps**
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Skipping map integration limits your app's **ability to use location-based services**, which is critical for modern apps.

Visit **haas.dev** for more Flutter guides, tutorials, and complete project resources.

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