

Muhammad Ikhsan Al Hakim

2311104064

Unguided 12

Main.dart

```
import 'package:flutter/material.dart';
import 'maps_page.dart';

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

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

  @override
  Widget build(BuildContext context) {
    return const MaterialApp(
      debugShowCheckedModeBanner: false,
      home: MapsPage(),
    );
  }
}
```

Maps_page.dart

```
import 'package:flutter/material.dart';
import 'package:google_maps_flutter/google_maps_flutter.dart';
import 'place_picker.dart';

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

  @override
  State<MapsPage> createState() => _MapsPageState();
}

class _MapsPageState extends State<MapsPage> {
  static const LatLng _initialPosition = LatLng(-7.4305826, 109.2492681);

  Set<Marker> _markers = {
    const Marker(
      markerId: MarkerId("initial"),
      position: _initialPosition,
      infoWindow: InfoWindow(title: "Lokasi Awal"),
    ),
  };
}
```

```
};

String lokasiInfo = "Belum memilih lokasi";

Future<void> _openPlacePicker() async {
  final result = await Navigator.push(
    context,
    MaterialPageRoute(builder: (_) => const PickPlacePage()),
  );

  if (result != null) {
    setState(() {
      lokasiInfo =
        "${result['name']}\n${result['address']}\nLat: ${result['lat']}, Lng: ${result['lng']}";

      _markers = [
        Marker(
          markerId: const MarkerId("picked"),
          position: LatLng(result['lat'], result['lng']),
          infoWindow: InfoWindow(title: result['name']),
        ),
      ];
    });
  }
}

@Override
Widget build(BuildContext context) {
  return Scaffold(
    appBar: AppBar(title: const Text("Maps & Places")),
    body: Column(
      children: [
        Expanded(
          child: GoogleMap(
            initialCameraPosition: const CameraPosition(
              target: _initialPosition,
              zoom: 14,
            ),
            myLocationEnabled: true,
            markers: _markers,
          ),
        ),
        Padding(
          padding: const EdgeInsets.all(12),
          child: Column(
            children: [
              ElevatedButton(
                onPressed: _openPlacePicker,
                child: const Text("Pilih Lokasi"),
              ),
            ],
          ),
        ),
      ],
    ),
  );
}
```

```
        const SizedBox(height: 10),
        Text(lokasiInfo, textAlign: TextAlign.center),
    ],
),
),
],
),
);
}
}
```

Place_picker.dart

```
import 'package:flutter/material.dart';
import 'package:place_picker_google/place_picker_google.dart';
import 'package:google_maps_flutter/google_maps_flutter.dart';

class PickPlacePage extends StatelessWidget {
  const PickPlacePage({super.key});

  static const LatLng _defaultLocation = LatLng(-7.4305826, 109.2492681);

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: const Text("Place Picker")),
      body: PlacePicker(
        apiKey: "API_KEY_KAMU",
        initialLocation: _defaultLocation,
        onPlacePicked: (result) {
          Navigator.pop(context, {
            "name": result.name,
            "address": result.formattedAddress,
            "lat": result.latLng!.latitude,
            "lng": result.latLng!.longitude,
          });
        },
      );
    }
}
```

Render_maps.dart

```
import 'package:flutter/material.dart';
import 'package:google_maps_flutter/google_maps_flutter.dart';

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

  @override
  State<RenderMaps> createState() => _RenderMapsState();
}

class _RenderMapsState extends State<RenderMaps> {
  static final LatLng _defaultLocation = const LatLng(-7.417404, 109.251143);
  static final CameraPosition _cameraPosition = CameraPosition(
    target: _defaultLocation,
    zoom: 14.0,
  );

  Set<Marker> _createMarker() {
    return {
      Marker(
        markerId: const MarkerId('Gor Satria'),
        position: _defaultLocation,
      ),
      Marker(
        markerId: const MarkerId('Marker 2'),
        position: LatLng(-7.403080, 109.259509),
      ),
    };
  }

  @override
  Widget build(BuildContext context) {
    return Scaffold(
      appBar: AppBar(title: const Text('Render Maps API')),
      body: GoogleMap(
        initialCameraPosition: _cameraPosition,
        markers: _createMarker(),
        myLocationEnabled: true,
      ),
    );
  }
}
```

Hasil Run

