Flutter:5

- **Work with google map api.**

  - Fetch the current address:-
  - First import location package from terminal:
    - Flutter pub add location
  - If any query follow the official documentation of location package.
    https://pub.dev/packages/location

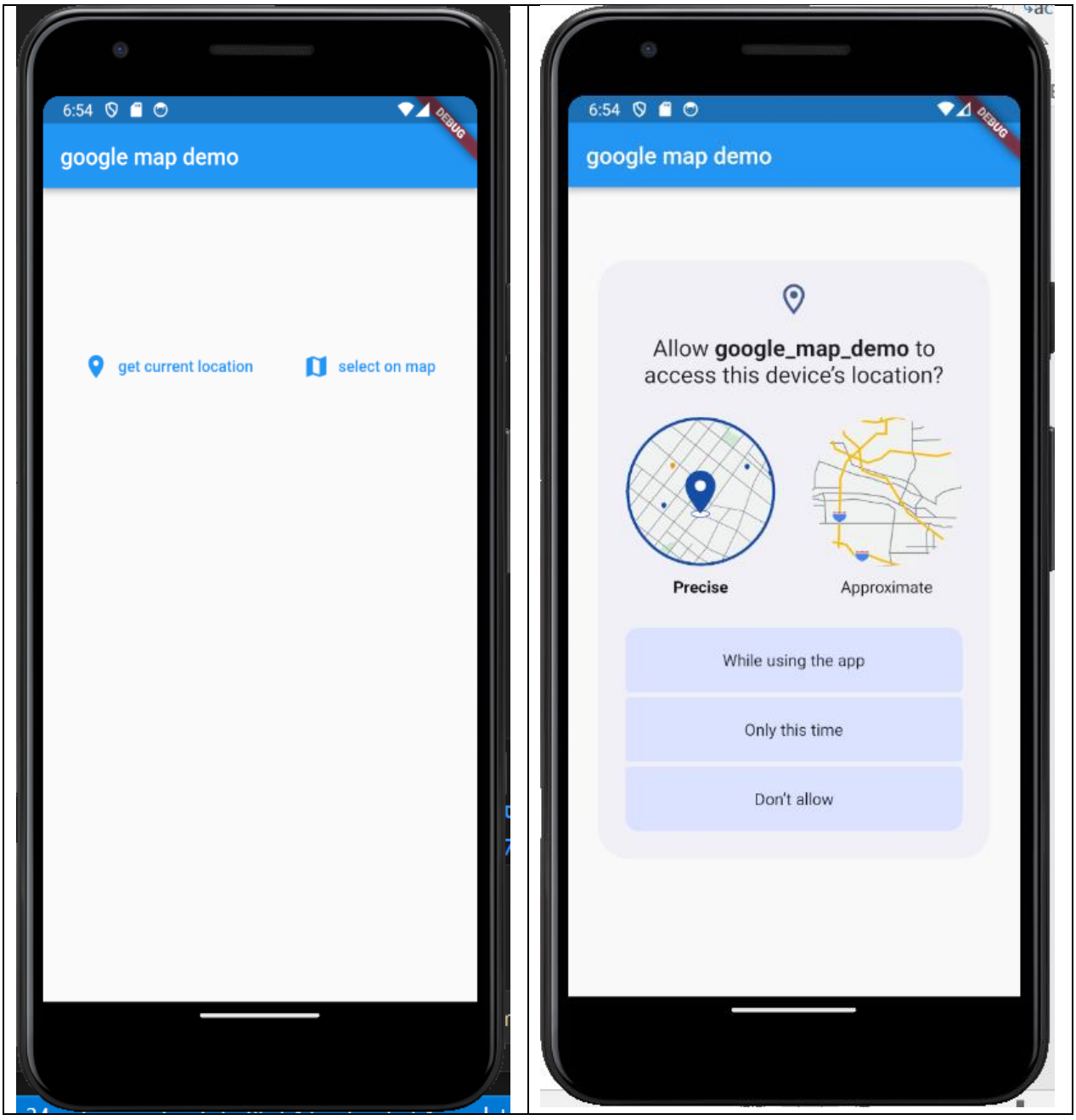
  - mapapp.dart

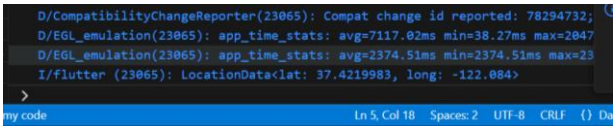
```dart
import 'package:flutter/material.dart';
import 'package:location/location.dart';

class mapapp extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return _m1();
  }
}

class _m1 extends State<mapapp> {
  void loc() async {
    Location location = new Location();

    bool _serviceEnabled;
    PermissionStatus _permissionGranted;
    LocationData _locationData;

    _serviceEnabled = await
location.serviceEnabled();
    if (!_serviceEnabled) {
      _serviceEnabled = await
location.requestService();
```

```
      if (!_serviceEnabled) {
        return;
      }
    }

    _permissionGranted = await
location.hasPermission();
    if (_permissionGranted ==
PermissionStatus.denied) {
      _permissionGranted = await
location.requestPermission();
      if (_permissionGranted !=
PermissionStatus.granted) {
        return;
      }
    }

    _locationData = await location.getLocation();
    print(_locationData);
  }

  void map() {}

  @override
  Widget build(BuildContext context) {
    // TODO: implement build
    return MaterialApp(
        home: Scaffold(
      body: Column(
        children: [
          Container(height: 130),
          Row(
            mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
            children: [
              TextButton.icon(
                  onPressed: loc,
                  icon: Icon(Icons.location_on),
```

```
                    label: Text("get current
location")),
                TextButton.icon(
                    onPressed: map,
                    icon: Icon(Icons.map),
                    label: Text("select on map")),
              ],
            )
          ],
        ),
        appBar: AppBar(
          title: Text("google map demo"),
        ),
      ));
  }
}
```

Output:





- Convert latitude longitude to address:

- We require goggle map console and map api key
  Import http package
  Flutter pub add http

Mapapp.dart

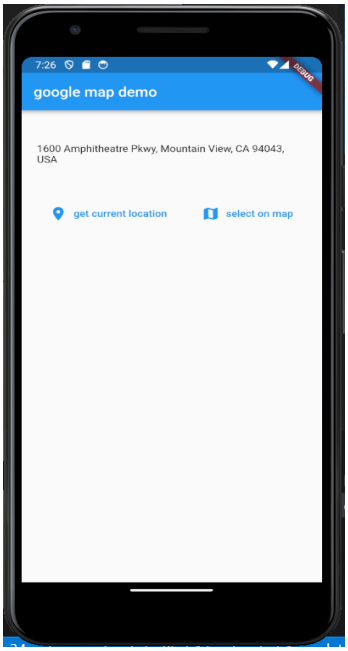
```
import 'dart:convert';

import 'package:flutter/material.dart';
import 'package:location/location.dart';
import 'package:http/http.dart' as http;

class mapapp extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return _m1();
  }
}

class _m1 extends State<mapapp> {
  var gettinglocation = false;
  var pd = "";
  var src = "select current location button";
  void loc() async {
    Location location = new Location();

    bool _serviceEnabled;
    PermissionStatus _permissionGranted;
    LocationData _locationData;

    _serviceEnabled = await
location.serviceEnabled();
    if (!_serviceEnabled) {
      _serviceEnabled = await
location.requestService();
      if (!_serviceEnabled) {
        return;
```

```
      }
    }

    _permissionGranted = await
location.hasPermission();
    if (_permissionGranted ==
PermissionStatus.denied) {
      _permissionGranted = await
location.requestPermission();
      if (_permissionGranted !=
PermissionStatus.granted) {
        return;
      }
    }
    setState(() {
      gettinglocation = true;
    });
    _locationData = await location.getLocation();
    setState(() {
      gettinglocation = false;
    });
    var lat = _locationData.latitude;
    var long = _locationData.longitude;
    final uri = Uri.parse(
        'https://maps.googleapis.com/maps/api/geoco
de/json?latlng=$lat,$long&key=your_api_key');
    var response = await http.get(uri);
    setState(() {
      final gt = jsonDecode(response.body);
      pd = gt['results'][0]['formatted_address'];
    });

    print(_locationData);
  }

  void map() {}

  @override
  Widget build(BuildContext context) {
```

```
    // TODO: implement build

    Widget cd = Text(pd);
    if (gettinglocation) {
      cd = CircularProgressIndicator();
    }
    return MaterialApp(
        home: Scaffold(
      body: Column(
        children: [
          Center(
            child: Container(
              height: 130,
              child: Padding(
                padding: const EdgeInsets.all(20),
                child: Center(child: cd),
              ),
            ),
          ),
          Row(
            mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
            children: [
              TextButton.icon(
                  onPressed: loc,
                  icon: Icon(Icons.location_on),
                  label: Text("get current
location")),
              TextButton.icon(
                  onPressed: map,
                  icon: Icon(Icons.map),
                  label: Text("select on map")),
            ],
          )
        ],
      ),
      appBar: AppBar(
        title: Text("google map demo"),
      ),
```

```
    ));
  }
}
```

Output:-


7:26
DEBUG
google map demo
1600 Amphitheatre Pkwy, Mountain View, CA 94043, USA
get current location
select on map

Use static map to load static location.

https://developers.google.com/maps/documentation/maps-static/overview

mapapp.dart

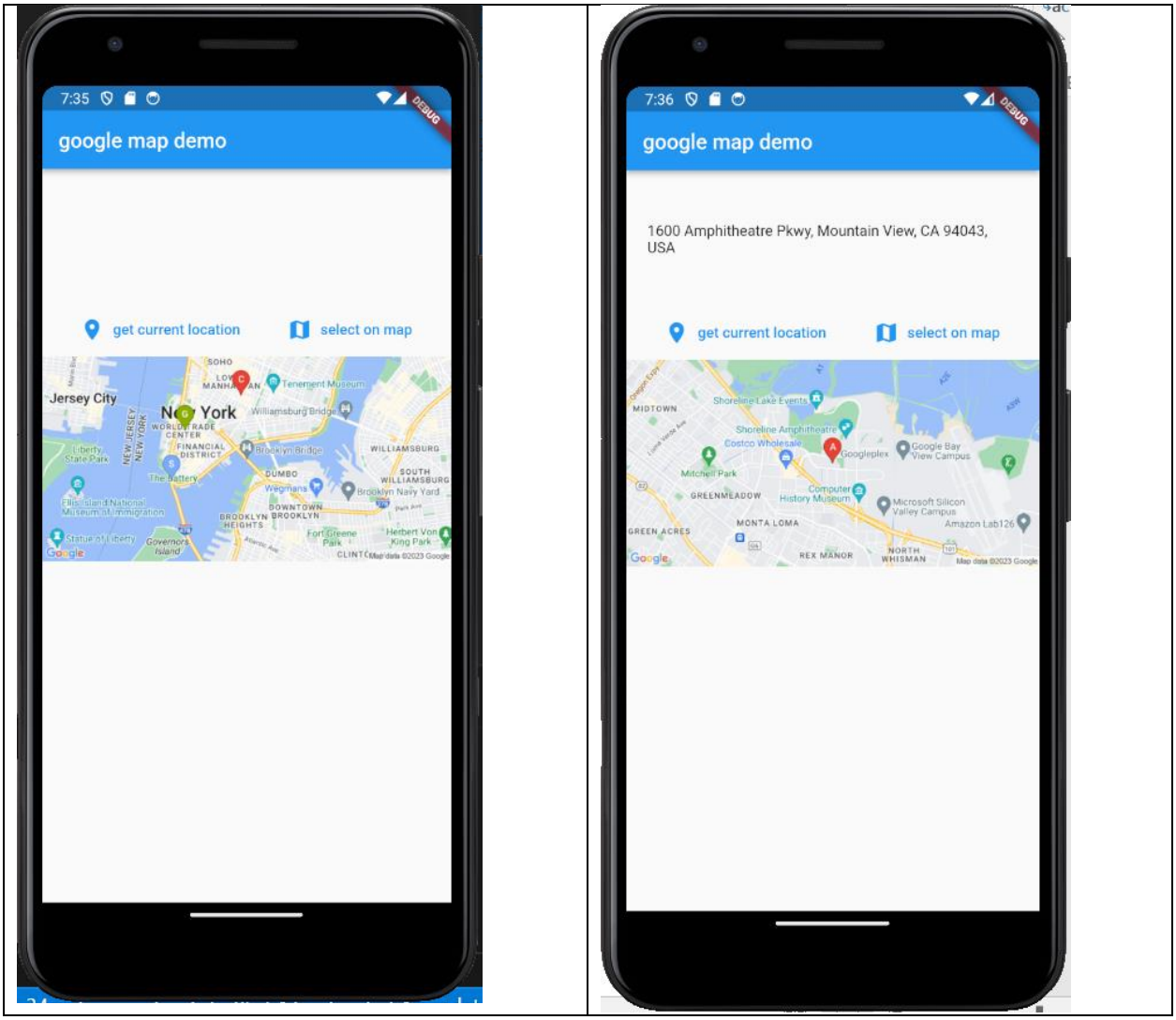
```
import 'dart:convert';

import 'package:flutter/material.dart';
import 'package:location/location.dart';
import 'package:http/http.dart' as http;

class mapapp extends StatefulWidget {
  @override
  State<StatefulWidget> createState() {
    // TODO: implement createState
    return _m1();
  }
}

class _m1 extends State<mapapp> {
  var gettinglocation = false;
  var pd = "";
  var src = "select current location button";
  var maplocation =
      "https://maps.googleapis.com/maps/api/staticmap?center
=Brooklyn+Bridge,New+York,NY&zoom=13&size=600x300&maptype=ro
admap&markers=color:blue%7Clabel:S%7C40.702147,-
74.015794&markers=color:green%7Clabel:G%7C40.711614,-
74.012318&markers=color:red%7Clabel:C%7C40.718217,-
73.998284&key=your_api_key";
  void loc() async {
    Location location = new Location();

    bool _serviceEnabled;
    PermissionStatus _permissionGranted;
    LocationData _locationData;

    _serviceEnabled = await location.serviceEnabled();
```

```
    if (!_serviceEnabled) {
      _serviceEnabled = await location.requestService();
      if (!_serviceEnabled) {
        return;
      }
    }

    _permissionGranted = await location.hasPermission();
    if (_permissionGranted == PermissionStatus.denied) {
      _permissionGranted = await
location.requestPermission();
      if (_permissionGranted != PermissionStatus.granted) {
        return;
      }
    }
    setState(() {
      gettinglocation = true;
    });
    _locationData = await location.getLocation();
    setState(() {
      gettinglocation = false;
    });
    var lat = _locationData.latitude;
    var long = _locationData.longitude;
    maplocation =
        "https://maps.googleapis.com/maps/api/staticmap?cent
er=$lat,$long&zoom=13&size=600x300&maptype=roadmap&markers=c
olor:red%7Clabel:A%7C$lat,$long&markers=color:green%7Clabel:
G%7C40.711614,-
74.012318&markers=color:red%7Clabel:C%7C40.718217,-
73.998284&key=your_api_key";

    final uri = Uri.parse(
        'https://maps.googleapis.com/maps/api/geocode/json?l
atlng=$lat,$long&key=your_api_key');
    var response = await http.get(uri);
    setState(() {
      final gt = jsonDecode(response.body);
      pd = gt['results'][0]['formatted_address'];
```

```
    });

    print(_locationData);
  }

  void map() {}

  @override
  Widget build(BuildContext context) {
    // TODO: implement build

    Widget cd = Text(pd);
    if (gettinglocation) {
      cd = CircularProgressIndicator();
    }
    return MaterialApp(
        home: Scaffold(
      body: Column(
        children: [
          Center(
            child: Container(
              height: 130,
              child: Padding(
                padding: const EdgeInsets.all(20),
                child: Center(child: cd),
              ),
            ),
          ),
          Row(
            mainAxisAlignment:
MainAxisAlignment.spaceEvenly,
            children: [
              TextButton.icon(
                  onPressed: loc,
                  icon: Icon(Icons.location_on),
                  label: Text("get current location")),
              TextButton.icon(
                  onPressed: map,
                  icon: Icon(Icons.map),
```

```
                  label: Text("select on map")),
            ],
          ),
          Container(
            height: 200,
            child: Image.network(maplocation),
          )
        ],
      ),
      appBar: AppBar(
        title: Text("google map demo"),
      ),
    ));
  }
}
```

Output:-


7:35
google map demo
get current location
select on map
Jersey City
New York
7:36
google map demo
1600 Amphitheatre Pkwy, Mountain View, CA 94043, USA
get current location
select on map