

activity_main.xml

```
<?xml version="1.0"
encoding="utf-8"?>
<androidx.constraintlayout.w
idget.ConstraintLayout
xmlns:android="http://schema
s.android.com/apk/res/androi
d"

xmlns:app="http://schemas.an
droid.com/apk/res-auto"

xmlns:tools="http://schemas.
android.com/tools"

android:layout_width="match_
parent"

android:layout_height="match
_parent"

tools:context=".MainActivity
">

    <TextView

android:id="@+id/textView"

android:layout_width="match_
parent"

android:layout_height="wrap_
content"

android:layout_marginBottom=
"10dp"

android:paddingStart="20dp"
    android:text="My
MAP"

android:textSize="26dp"

android:textStyle="bold"

app:layout_constraintBottom_
toTopOf="@+id/frame_layout"

app:layout_constraintEnd_toE
ndOf="parent"

app:layout_constraintStart_t
```

```
oStartOf="parent"

app:layout_constraintTop_toT
opOf="parent"

tools:ignore="MissingConstra
ints" />

    <FrameLayout

android:id="@+id/frame_layou
t"

android:layout_width="315dp"

android:layout_height="510dp
"

android:layout_marginTop="4d
p"

app:layout_constraintBottom_
toBottomOf="parent"

app:layout_constraintEnd_toE
ndOf="parent"

app:layout_constraintStart_t
oStartOf="parent"

app:layout_constraintTop_toB
ottomOf="@+id/textView">

    </FrameLayout>

</androidx.constraintlayout.
widget.ConstraintLayout>
```

MainActivity.java

```
package com.example.map;

import
androidx.appcompat.app.AppCo
mpatActivity;
import
androidx.fragment.app.Fragme
nt;
import
androidx.fragment.app.Fragme
ntManager;
import
androidx.fragment.app.Fragme
ntTransaction;

import
android.annotation.SuppressL
int;
import android.os.Bundle;

public class MainActivity
extends AppCompatActivity {

    @SuppressWarnings("CommittTransac
tion")
    @Override
    protected void
onCreate(Bundle
savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.acti
vity_main);
        FragmentManager
fragmentManager =
getSupportFragmentManager();

        // Begin a
transaction to replace the
contents of the FrameLayout
with the fragment
        FragmentTransaction
transaction =
fragmentManager.beginTransaction();

        // Replace the
contents of the FrameLayout
```

```
with the fragment
        Fragment myFragment
= new Map_Fragment();

transaction.replace(R.id.fra
me_layout, myFragment);

        // Commit the
transaction

transaction.commit();

    }
}
```

fragment_map.xml

```
<?xml version="1.0"
encoding="utf-8"?>
<FrameLayout
xmlns:android="http://schemas
s.android.com/apk/res/androi
d"

xmlns:tools="http://schemas.
android.com/tools"

android:layout_width="match_
parent"

android:layout_height="match
_parent"

tools:context=".Map_Fragment
">

    <fragment

android:layout_width="match_
parent"

android:layout_height="match
_parent"

android:id="@+id/map"

android:name="com.google.and
roid.gms.maps.SupportMapFrag
ment"/>

</FrameLayout>
```

Map_Fragment.java

```
package com.example.map;

import android.os.Bundle;

import androidx.annotation.NonNull;
import androidx.fragment.app.Fragment;

import android.view.LayoutInflater;
import android.view.View;
import android.view.ViewGroup;

import com.google.android.gms.maps.CameraUpdateFactory;
import com.google.android.gms.maps.GoogleMap;
import com.google.android.gms.maps.OnMapReadyCallback;
import com.google.android.gms.maps.SupportMapFragment;
import com.google.android.gms.maps.model.LatLng;
import com.google.android.gms.maps.model.MarkerOptions;

import java.util.Objects;

public class Map_Fragment
extends Fragment {
    @Override
    public View
onCreateView(LayoutInflater
inflater, ViewGroup
container,
Bundle savedInstanceState) {
        View view =
inflater.inflate(R.layout.fr
agment_map_, container,
false);
        SupportMapFragment
supportMapFragment =
```

```
(SupportMapFragment)
getChildFragmentManager().fi
ndFragmentById(R.id.map);

supportMapFragment.getMapAsy
nc(new OnMapReadyCallback()
{
            @Override
            public void
onMapReady(@NonNull
GoogleMap googleMap) {

googleMap.setOnMapClickListe
ner(new
GoogleMap.OnMapClickListener
() {

@Override
            public
void onMapClick(@NonNull
LatLng latLng) {

MarkerOptions markerOptions
= new MarkerOptions();

markerOptions.position(latLn
g)

.title("Location: " +
latLng.latitude + " , " +
latLng.longitude)

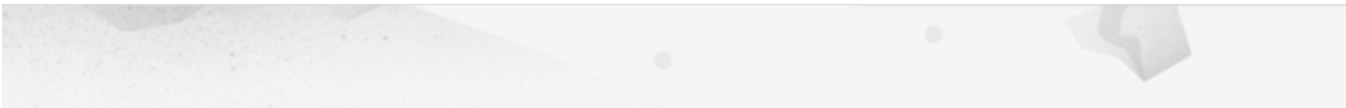
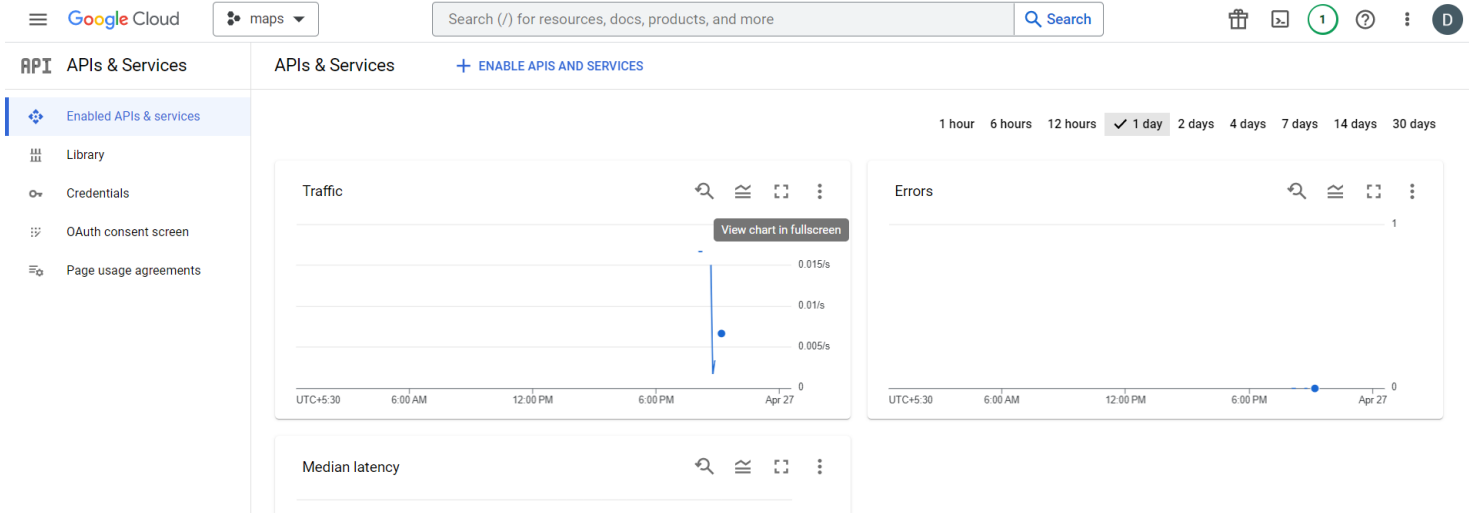
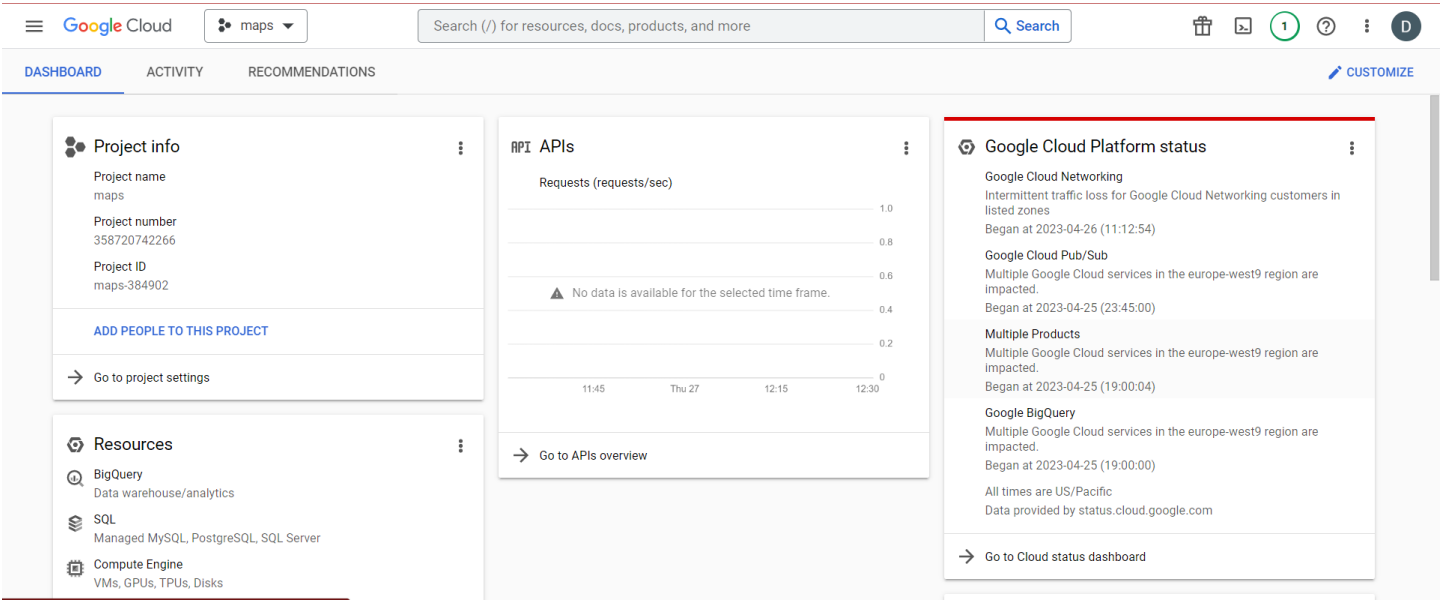
.zIndex(Float.MAX_VALUE);

googleMap.clear();

googleMap.animateCamera(Came
raUpdateFactory.newLatLngZoo
m(latLng,20));


Objects.requireNonNull(googl
eMap.addMarker(markerOptions
)).showInfoWindow();
            }
        });
    }
});
return view;
}
```


Steps to get API KEY



- Visibility
 - Public (421)
 - Private (8)
- Category
 - Maps (17)
 - Big data (21)
 - Analytics (9)

Maps

 **Maps SDK for Android**
Google
Maps for your native Android app.

 **Maps SDK for iOS**
Google
Maps for your native iOS app.

Machine learning



Maps SDK for Android

Google

Maps for your native Android app.

MANAGE

API Enabled

OVERVIEW

DOCUMENTATION

SUPPORT

RELATED PRODUCTS

Google Cloud

maps

Search (/) for resources, docs, products, and more

Search

APIs & Services

Enabled APIs & services

Library

Credentials

OAuth consent screen

Page usage agreements

Credentials

+ CREATE CREDENTIALS

DELETE

RESTORE DELETED CREDENTIALS

Create credentials to access your enabled APIs. [Learn more](#)

Remember to configure the OAuth consent screen with information about your application.

CONFIGURE CONSENT SCREEN

API Keys

| <input type="checkbox"/> | Name | Creation date | Restrictions | Actions |
|--------------------------|-----------|---------------|--------------|----------|
| <input type="checkbox"/> | API key 1 | Apr 26, 2023 | None | SHOW KEY |

OAuth 2.0 Client IDs

| <input type="checkbox"/> | Name | Creation date | Type | Client ID | Actions |
|-----------------------------|------|---------------|------|-----------|---------|
| No OAuth clients to display | | | | | |

Service Accounts

Manage service accounts

| <input type="checkbox"/> | Email | Name | Actions |
|--------------------------------|-------|------|---------|
| No service accounts to display | | | |

API key 1

Use this key in your application by passing it with the `key=API_KEY` parameter.

Your API key

AIzaSyCeydXYu4HFGhyEU6GgdrqiWC6905xH1cE



⚠ This key is unrestricted. To prevent unauthorized use, we recommend restricting where and for which APIs it can be used. [Edit API key](#) to add restrictions. [Learn more](#)

CLOSE

OUTPUT

