Google Map

<uses-permission android:name="android.permission.ACCESS\_FINE\_LOCATION"/>

<uses-permission android:name="android.permission.ACCESS\_COARSE\_LOCATION" />

<uses-permission android:name="android.permission.INTERNET"/>

<application

android:allowBackup="true"

android:icon="@mipmap/ic\_launcher"

android:label="@string/app\_name"

android:roundIcon="@mipmap/ic\_launcher\_round"

android:supportsRtl="true"

android:theme="@style/AppTheme">

<meta-data

android:name="com.google.android.geo.API\_KEY"

android:value="@string/map\_key" />

1. **The XML layout file**

By default, the XML file that defines the app's layout is at res/layout/activity\_main.xml. It contains the following code:

<fragment

android:layout\_width="match\_parent"

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android:id="@+id/mapAPI"

android:name="com.google.android.gms.maps.SupportMapFragment" >

</fragment>

import android.os.Bundle;

import android.support.v4.app.FragmentActivity;

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;

public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {

    private GoogleMap mMap;

    @Override

    protected void onCreate(Bundle savedInstanceState) {

        super.onCreate(savedInstanceState);

        setContentView(R.layout.activity\_maps);

        SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()

                .findFragmentById(R.id.mapAPI);

        mapFragment.getMapAsync(this);

    }

    @Override

    public void onMapReady(GoogleMap googleMap) {

        mMap = googleMap;

        // Add a marker in Sydney, Australia, and move the camera.

        LatLng sydney = new LatLng(-34, 151);

        mMap.addMarker(new MarkerOptions().position(sydney).title("Marker in Sydney"));

        mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));

CircleOptions circleOptions = new CircleOptions();  
circleOptions.center(sydney);  
circleOptions.radius(8500);  
circleOptions.fillColor(Color.BLUE);  
circleOptions.strokeColor(Color.RED);  
circleOptions.strokeWidth(4);  
  
mMap.addCircle(circleOptions);

mMap.setMapType(GoogleMap.MAP\_TYPE\_HYBRID);

    }

}