Android

Camera & Map

Open Camera

```
Intent intent = new Intent(Intent.ACTION_PICK);

intent.setType(“image/*");

startActivityForResult(

    Intent.createChooser(intent, "Choose App"), 1

);
```

Result

```
@Override

public void onActivityResult(int requestCode, int resultCode,
Intent data) {

        super.onActivityResult(requestCode, resultCode, data);

}
```

```
<!--Photo-->
<ImageView
    android:scaleType="centerInside"
    android:id="@+id/imvPhoto"
    android:layout_gravity="center"
    android:src="@drawable/photo"
    android:layout_width="wrap_content"
    android:layout_height="200dp" />
```

ImageView

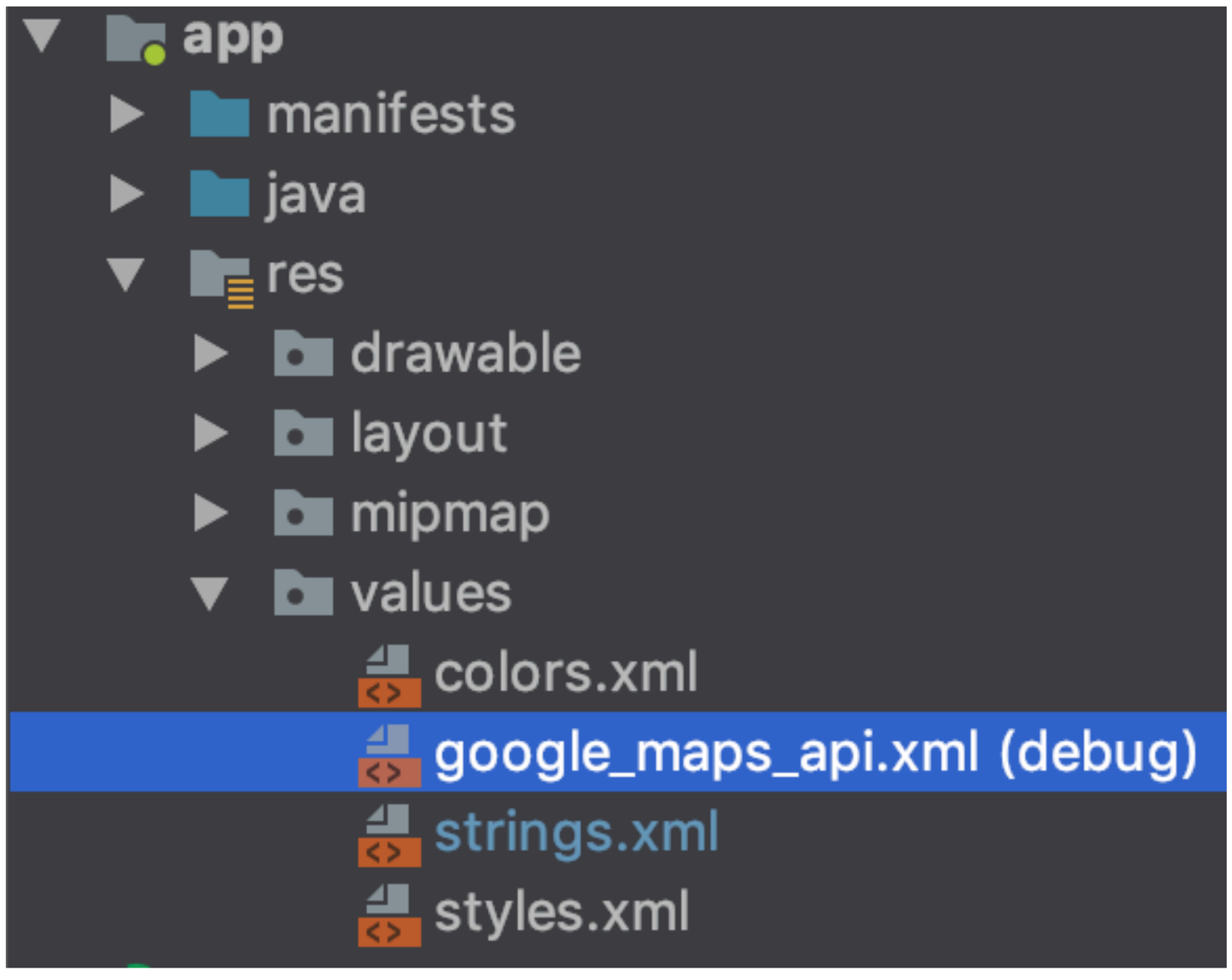
Display

```
try {
        Uri uri = data.getData();
         Bitmap bitmap = BitmapFactory.decodeStream(
                getActivity()
                        .getContentResolver()
                        .openInputStream(uri)
        );
        Bitmap bitmap1 = Bitmap.createScaledBitmap(bitmap, 800, 600, true);
        getView().findViewById(R.id.imvPhoto).setImageBitmap(bitmap1);
    } catch (Exception e) {
        e.printStackTrace();
    }
```

```java
@Override
public void onActivityResult(int requestCode, int resultCode, Intent data) {
    super.onActivityResult(requestCode, resultCode, data);
    if (resultCode == getActivity().RESULT_OK) {
        uri = data.getData();
        aBoolean = false;
        try {

            Bitmap bitmap = BitmapFactory.decodeStream(
                    getActivity()
                            .getContentResolver()
                            .openInputStream(uri)
            );

            Bitmap bitmap1 = Bitmap.createScaledBitmap(bitmap, 800, 600, true);
            imageView.setImageBitmap(bitmap1);

        } catch (Exception e) {
            e.printStackTrace();
        }

    } else {
        Toast.makeText(getActivity(), "Please Choose Image", Toast.LENGTH_SHORT).show();
    }

}

private void photoController() {
    imageView = getView().findViewById(R.id.imvPhoto);
    imageView.setOnClickListener(new View.OnClickListener() {
        @Override
        public void onClick(View view) {
            Intent intent = new Intent(Intent.ACTION_PICK);
            intent.setType("image/*");
            startActivityForResult(Intent.createChooser(intent, "Choose App"), 1);

        }
    });
}
```

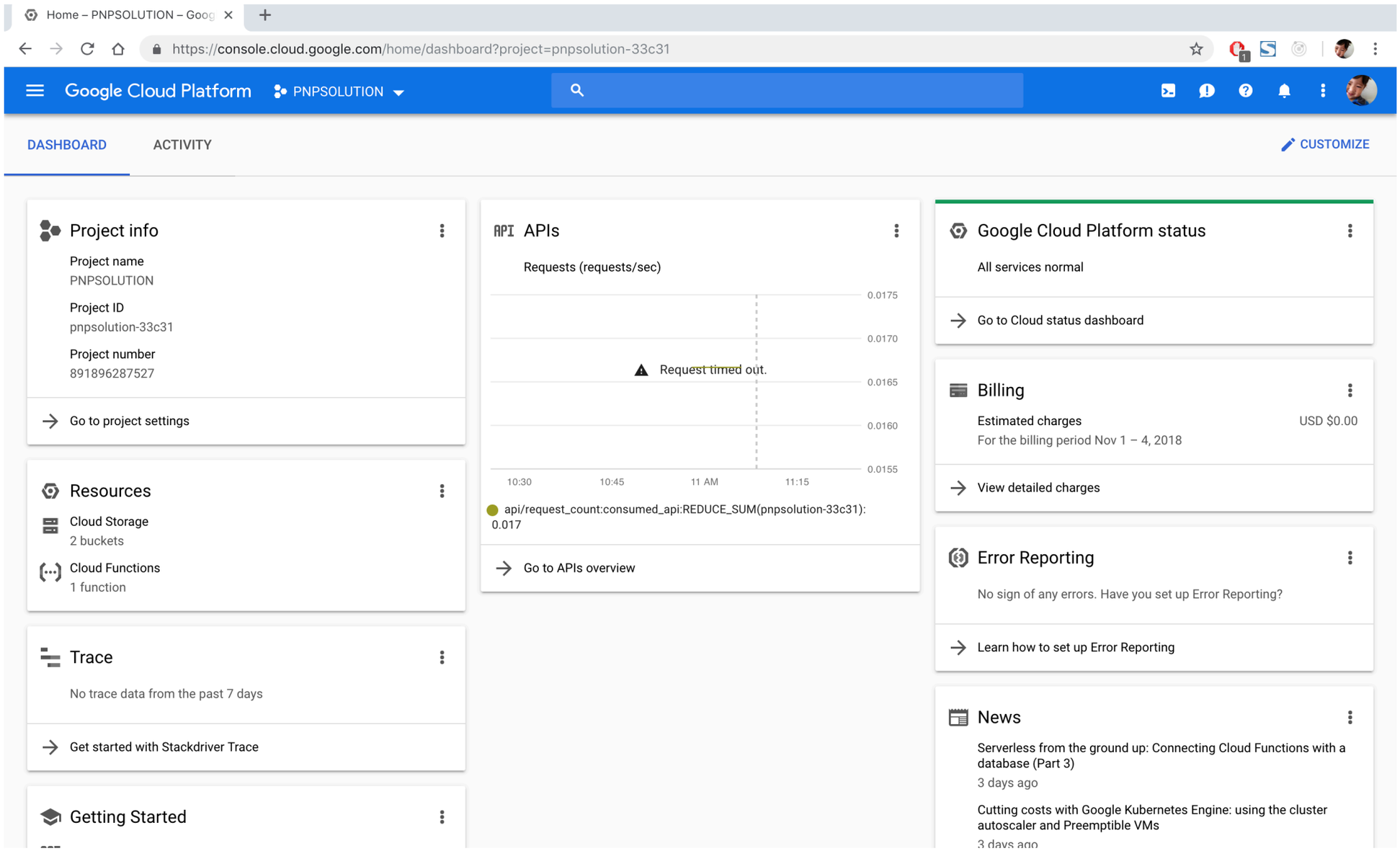
Google Map Api Step

- Create google_maps_api.xml



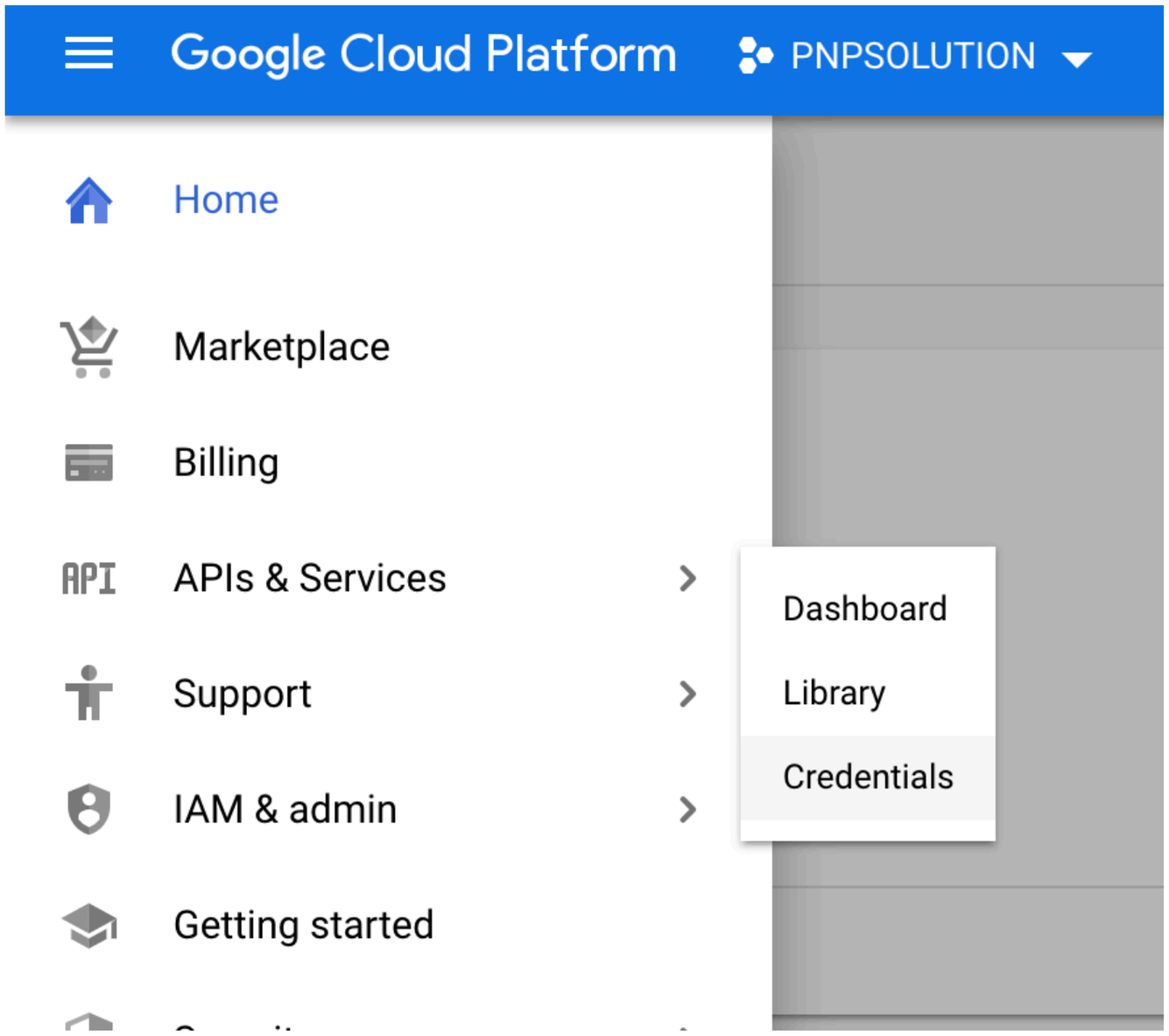
google_maps_api.xml

```
<resources>
<string name="google_maps_key"
templateMergeStrategy="preserve"
translatable="false">YOUR_KEY_HERE</string>

</resources>
```



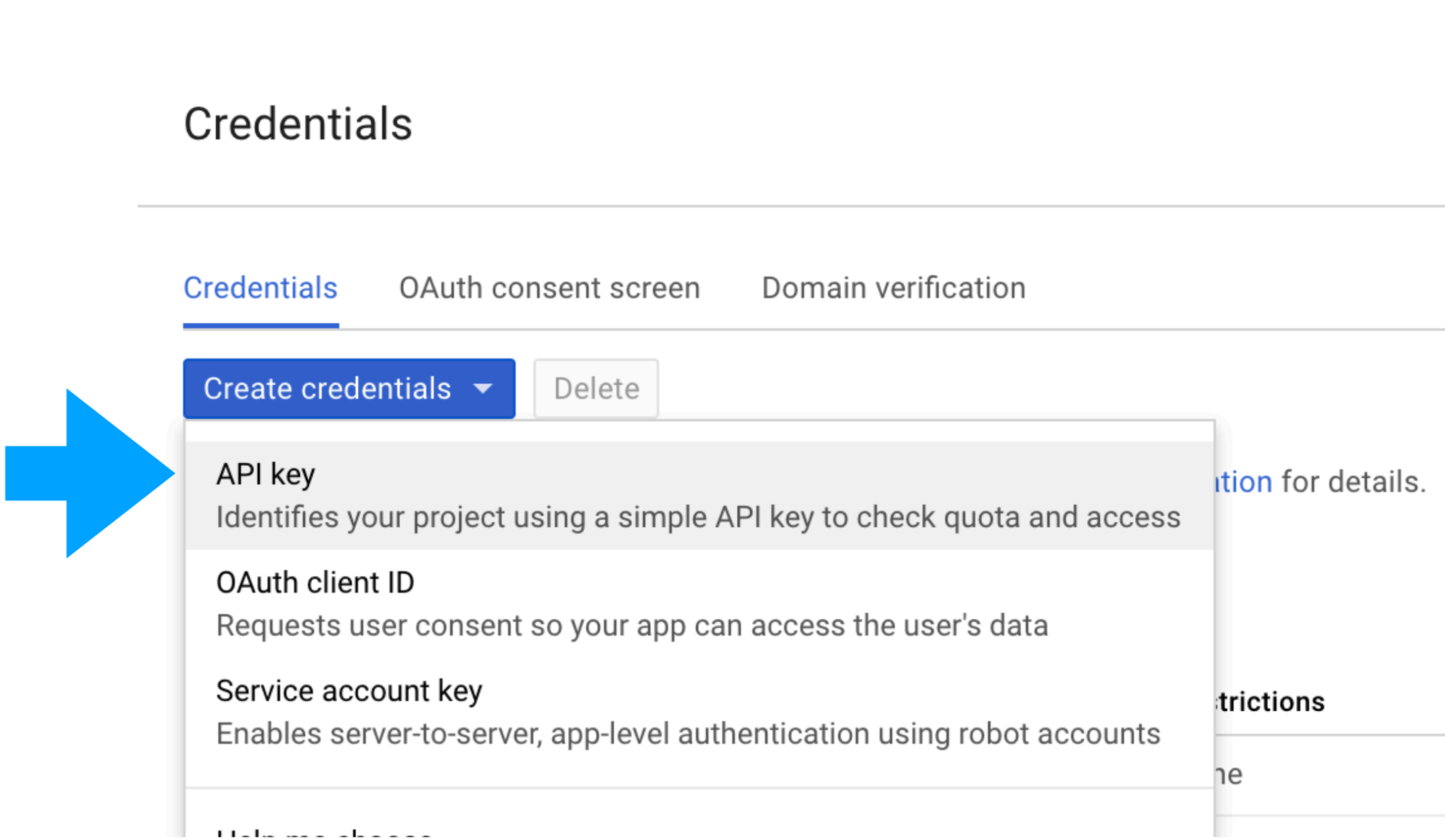
Generate map api key

Goto : https://console.cloud.google.com



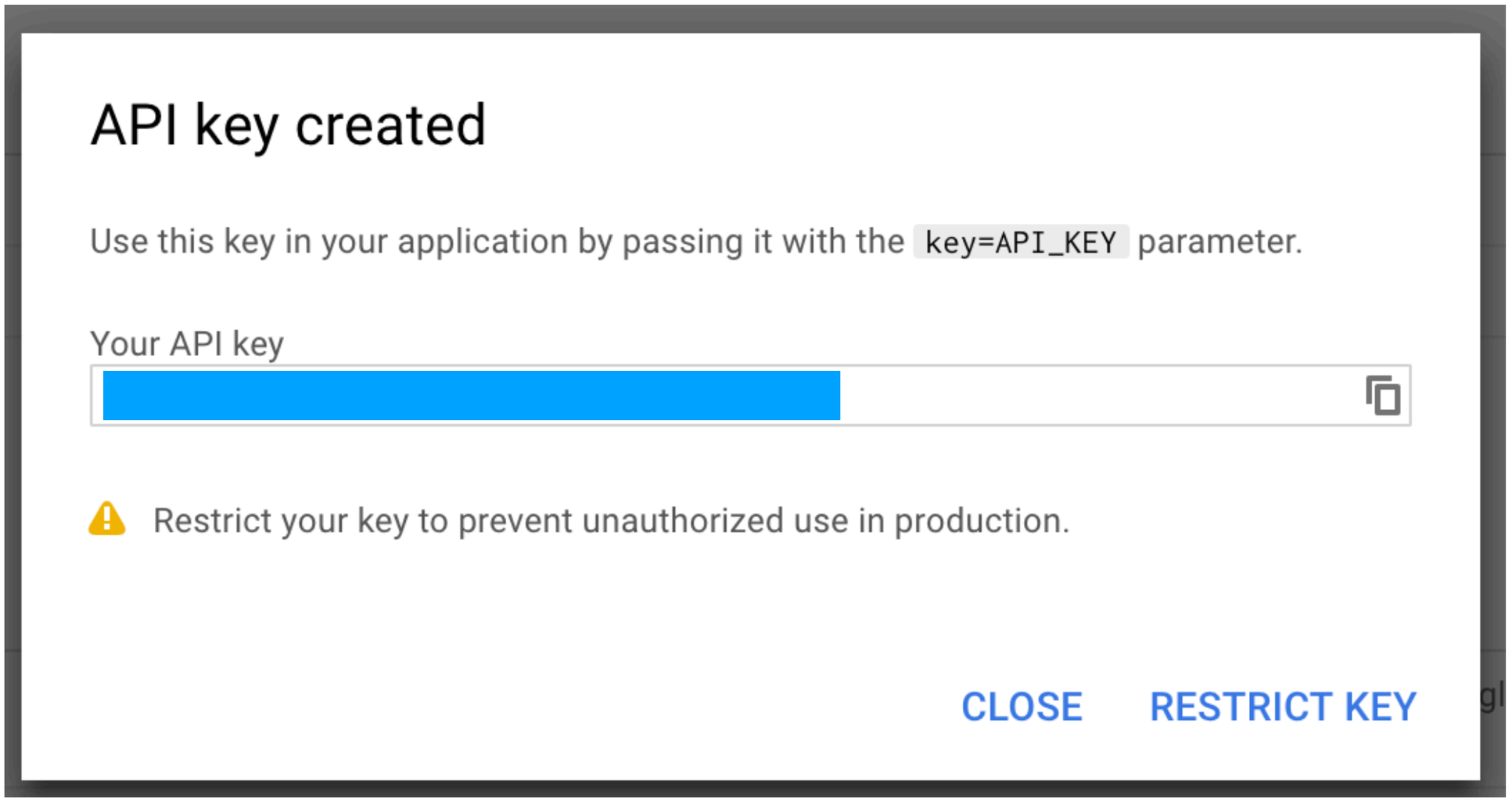
เลือก APIs & Services

แล้วเลือก Credentials



ที่หน้า Credentials

กดปุ่ม Create credentials / API Key



จะได้ api key

ให้นำ key ที่ได้ไปใส่ใน file google_maps_api.xml

Add dependencies

```
implementation 'com.google.android.gms:play-services-maps:15.0.1'
```

Map Fragment

```
<fragment xmlns:android="http://schemas.android.com/apk/res/android"
    xmlns:map="http://schemas.android.com/apk/res-auto"
    xmlns:tools="http://schemas.android.com/tools"
    android:id="@+id/map"
    android:name="com.google.android.gms.maps.SupportMapFragment"
    android:layout_width="match_parent"
    android:layout_height="match_parent"
    tools:context=".MapsActivity" />
```

```java
public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {

    private GoogleMap mMap;

    @Override
    protected void onCreate(Bundle savedInstanceState) {
        super.onCreate(savedInstanceState);
        setContentView(R.layout.activity_maps);
        // Obtain the SupportMapFragment and get notified when the map is ready to be used
        SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()
                .findFragmentById(R.id.map);
        mapFragment.getMapAsync( onMapReadyCallback: this);
    }

    @Override
    public void onMapReady(GoogleMap googleMap) {
        mMap = googleMap;

        // Add a marker in Sydney and move the camera
        LatLng sydney = new LatLng( v: -34,  v1: 151);
        mMap.addMarker(new MarkerOptions().position(sydney).title("Marker in Sydney"));
        mMap.moveCamera(CameraUpdateFactory.newLatLng(sydney));
    }
}
```

OnMapReadyCallback

เอาไว้สำหรับในกรณีที่ต้องการสร้าง marker

เราจะสามารถสร้างได้ก็ต่อเมื่อ map อยู่ใน state ready แล้ว