

How to Search Location in Google Map in Android?

April 12, 2018 by [Belal Khan](#) — [1 Comment](#)

Hi, guys here is another useful tutorial. You might require searching locations on google map. We already learned about integrating google maps in our application in some previous posts. In this post, we will learn **“How to Search Location in Google Map in Android?”**

Before moving ahead, let me tell you what exactly we are going to do. So we will display map, the user can search a location on the map, and then we will show the marker at the searched location on the map.

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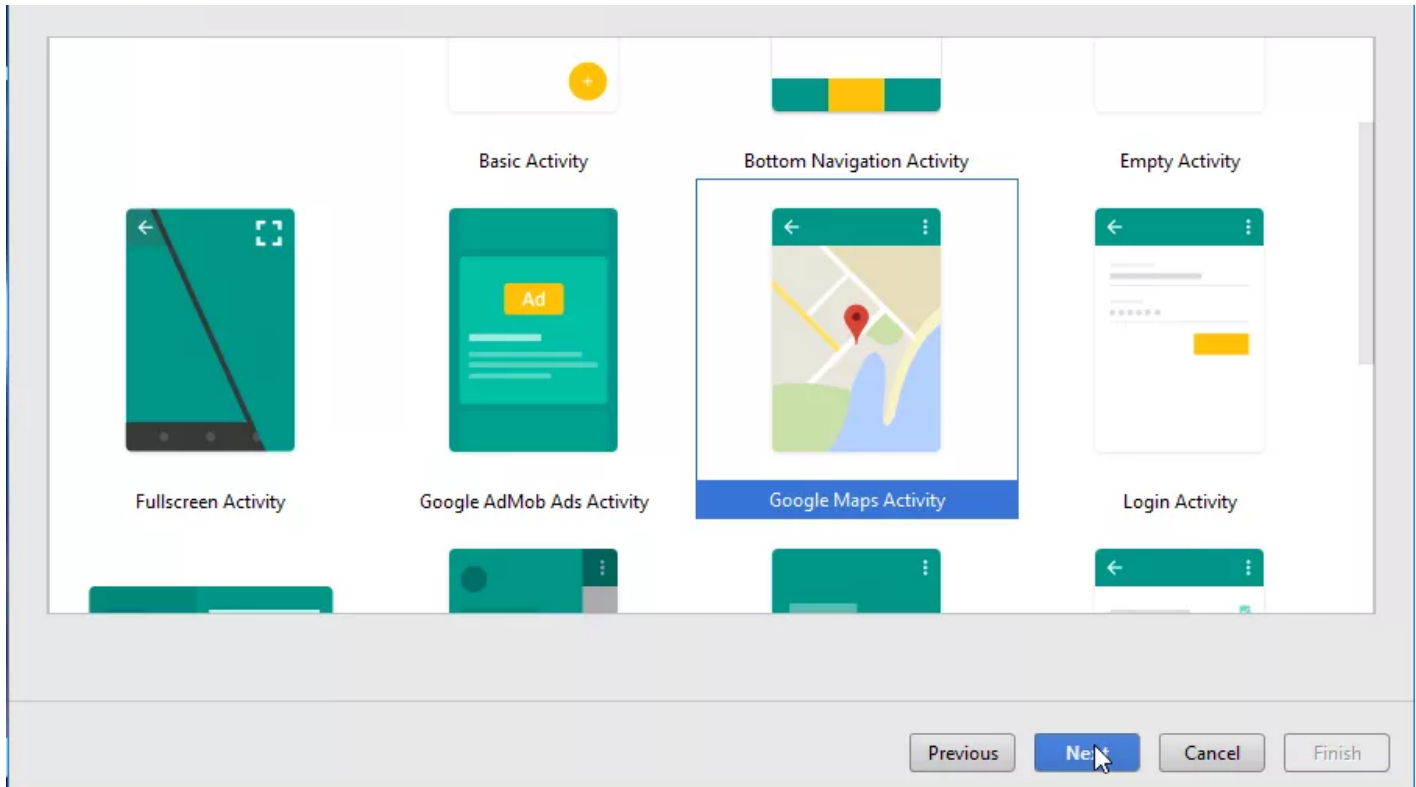
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Creating a new Android Project

- As always we will create a new project. So open Android Studio and create a project with **Google Maps Activity**.

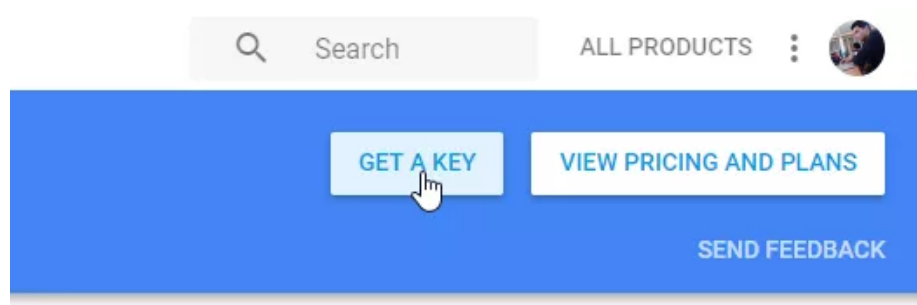
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- When you create a project or activity with Google Maps Activity Template, a file named **google_maps_api.xml** is created. Inside this file you need to define the API Key to work with maps.

Getting an API Key

- To get the API Key go to [this link](#). And then click on **GET A KEY**.



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Adding PlaceAutoCompleteFragment Dependency

- Go to your app level build.gradle file and make sure the following dependencies are added.

```
1 dependencies {
2     implementation fileTree(dir: 'libs', include: ['*.jar'])
3     implementation 'com.android.support:appcompat-v7:26.1.0'
4
5     //these two lines should be added
6     implementation 'com.google.android.gms:play-services-maps:12.0.1'
7     implementation 'com.google.android.gms:play-services-places:12.0.1'
8
9     testImplementation 'junit:junit:4.12'
10    androidTestImplementation 'com.android.support.test:runner:1.0.1'
11    androidTestImplementation 'com.android.support.test.espresso:espresso-core:3.0.1'
12 }
```

Adding PlaceAutoCompleteFragment in Activity

- Now come inside the file **activity_maps.xml** which is created while creating the project. You need to modify your code as shown below.

activity_maps.xml

```
1 <RelativeLayout xmlns:android="http://schemas.android.com/apk/res/android"
2     xmlns:map="http://schemas.android.com/apk/res-auto"
3     xmlns:tools="http://schemas.android.com/tools"
4     android:name="com.google.android.gms.maps.SupportMapFragment"
5     android:layout_width="match_parent"
6     android:layout_height="match_parent"
7     tools:context="net.simplifiedcoding.locationsearchexample.MapsActivity">
8
9
10    <fragment
11        android:id="@+id/place_autocomplete_fragment"
12        android:name="com.google.android.gms.location.places.ui.PlaceAutocompleteFragment"
13        android:layout_width="match_parent"
14        android:layout_height="wrap_content" />
15
16    <fragment xmlns:android="http://schemas.android.com/apk/res/android"
17        xmlns:map="http://schemas.android.com/apk/res-auto"
18        xmlns:tools="http://schemas.android.com/tools"
19        android:id="@+id/map"
```

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26 </RelativeLayout>

Enabling Places API

- You also need to enable Google Places API to make it work. So go to [this link](#).
- You need to do the same thing, click on GET A KEY on the top, and then select the same project that you selected while creating the API Key for Google Map. It will enable Google Places API and will give you another KEY. You can use this key as well, but it is not necessary as we already have the key.

Searching the Location

- Now go to **MapsActivity.java** and here you will find the below code that is available by default.

```
1 package net.simplifiedcoding.locationsearchexample;
2
3 import android.support.v4.app.FragmentActivity;
4 import android.os.Bundle;
5
6 import com.google.android.gms.maps.CameraUpdateFactory;
7 import com.google.android.gms.maps.GoogleMap;
8 import com.google.android.gms.maps.OnMapReadyCallback;
9 import com.google.android.gms.maps.SupportMapFragment;
10 import com.google.android.gms.maps.model.LatLng;
11 import com.google.android.gms.maps.model.MarkerOptions;
12
13 public class MapsActivity extends FragmentActivity implements OnMapReadyCallback {
14
15     private GoogleMap mMap;
16
17     @Override
18     protected void onCreate(Bundle savedInstanceState) {
19         super.onCreate(savedInstanceState);
20         setContentView(R.layout.activity_maps);
21         SupportMapFragment mapFragment = (SupportMapFragment) getSupportFragmentManager()
22             .findFragmentById(R.id.map);
23         mapFragment.getMapAsync(this);
24     }
25
26
27
28     @Override
29     public void onMapReady(GoogleMap googleMap) {
```

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```
36 | }
```

- You need to add the following code at the end of **onCreate()** method.

```
PlaceAutocompleteFragment autocompleteFragment = (PlaceAutocompleteFragment)
    getFragmentManager().findFragmentById(R.id.place_autocomplete_fragment);

autocompleteFragment.setOnPlaceSelectedListener(new PlaceSelectionListener() {
    @Override
    public void onPlaceSelected(Place place) {
        mMap.clear();
        mMap.addMarker(new MarkerOptions().position(place.getLatLng()).title(place.getName().toString()));
        mMap.moveCamera(CameraUpdateFactory.newLatLng(place.getLatLng()));
        mMap.animateCamera(CameraUpdateFactory.newLatLngZoom(place.getLatLng(), 12.0f));
    }

    @Override
    public void onError(Status status) {

    }
});
```

- Now that's it, run your application.

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- As you can see it is working absolutely fine.

Search Location in Google Map Source Code

If you are having any kind of problem then you can try my source code from this GitHub repository.

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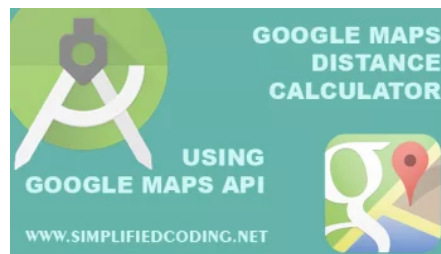
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About Belal Khan

I am Belal Khan, I am currently pursuing my MCA. In this blog I write tutorials and articles related to coding, app development, android etc.

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Ankur says

April 19, 2018 at 5:36 am

It is very helpful tutorial ...explained in so easy and understandable way ...Thank You so much .!!!!

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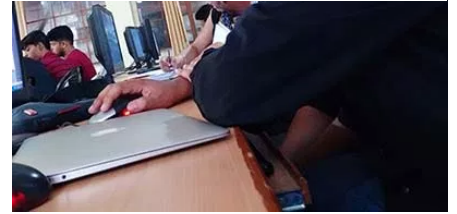
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