

Primary Menu

Angular 8/7 | Add Google Maps With Location Search In Angular 2 Plus Applications Using Angular Google Maps Module (@Agm/Core) Easily

🔾 Last updated on February 16, 2020 👃 Jolly.Exe

Supported from Angular 2 to latest version 8

Google maps are used in many applications as a location with visible maps pays an important role to make information more user-friendly. Embedded Maps can display markers of location or enable visual selection of address or show geographical location reviews etc.

In this post, we will add **Google Maps in an Angular project** using Angular Google Maps module. Adding/ Embedding Google Maps in an Angular project becomes very easy by using this module. Here we will explain step by step tutorial to make it even more easy with a new sample Angular project using latest CLI current version **7.3.8**

Let's get mapped 😛

Check: Angular Google Maps With Radius Circle And Markers



Check working demo here

Create a new Angular project. You can update Angular CLI by running following npm command

- \$ npm install -g @angular/cli
- \$ ng new AngularGoogleMaps
- \$ cd AngularGoogleMaps

Install Angular Google Maps

Run following NPM command to install AGM in project

\$ npm install @agm/core --save

Next, open **app.module.ts** then import AgmCoreModule then add in imports array

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { AppComponent } from './app.component';
import { AgmCoreModule } from '@agm/core';
@NgModule({
  declarations: [
    AppComponent
  ],
  imports: [
    BrowserModule,
    AgmCoreModule.forRoot({
      apiKey: 'AIzaSyAzSnXXXXXXXXXXXXXXXXXZGGWU',
      libraries: ['places']
    })
  1,
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

Note: Replace apiKey with your API key. Check here on How to get Google API key?

Add AGM template in App component to show basic Google Map with the current location. To get current coordinates like **Longitude & Lattitude**, we will use **geolocation service** in the navigator.

```
<!-- app.component.html --> <agm-map
```

```
[latitude]="latitude"
[longitude]="longitude"
[zoom]="zoom" >
  <agm-marker
  [latitude]="latitude"
  [longitude]="longitude"></agm-marker>
</agm-map>
```

Here we will call **setCurrentLocation()** method to set AGM with Lattitude & Longitude.

[zoom] property can be used to zoom up to any level.

```
//app.component.ts
import { Component, OnInit } from '@angular/core';
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
  title: string = 'AGM project';
  latitude: number;
  longitude: number;
  zoom:number;
  ngOnInit() {
    this.setCurrentLocation();
  }
    // Get Current Location Coordinates
    private setCurrentLocation() {
      if ('geolocation' in navigator) {
        navigator.geolocation.getCurrentPosition((position) => {
          this.latitude = position.coords.latitude;
          this.longitude = position.coords.longitude;
          this.zoom = 15;
```

```
})
}
}
```

}

3/21/2020

Add Map height in app.component.css

```
agm-map {
    height: 300px;
}
```

Note: Map height is required. Without it, the map will not be visible with 0 height.

That's it now you have a basic Google Map working in Angular application.

Next, we will add a search bar to search for locations from Google API.

Then a Draggable Marker to get current location address.

Add Location/ Places Search Bar

Next, we will install GoogleMaps types library

```
$ npm install @types/googlemaps --save-dev
```

Next, open file **tsconfig.app.json** already available at the root, now add "googlemaps" in types array as shown below

```
"extends": "../tsconfig.json",
"compilerOptions": {
    "outDir": "../out-tsc/app",
    "types": [
        "googlemaps"
    ]
},
"exclude": [
    "test.ts",
    "**/*.spec.ts"
]
}
```

Make Sure You Have Enabled Three Types Of API's Services On Your Key.

Maps JavaScript API (Show Map), Places API (Places search results) & Geocoding API (Convert Lat & Long to address)

In **app.component.html** we will now add a search bar with address and Latitude & Longitude information.

The marker is now draggable so that user can drag it to the desired location.

[markerDraggable] option is set to true.

(dragEnd) the event will fire to get the address of current drop.

```
<!-- app.component.html --> <div class="container">
```

<h1>Angular Google Maps with Places Search Example</h1>



```
<div class="form-group">
    <label>Enter address</label>
    <input type="text" class="form-control" (keydown.enter)="$eve</pre>
  </div>
  <agm-map [latitude]="latitude" [longitude]="longitude" [zoom]=</pre>
    <agm-marker [latitude]="latitude" [longitude]="longitude" [mailed]</pre>
      (dragEnd)="markerDragEnd($event)"></agm-marker>
  </agm-map>
  <h5>Address: {{address}}</h5>
  <div>Latitude: {{latitude}}</div>
  <div>Longitude: {{longitude}}</div>
</div>
```

In app.component.ts we will add Google map Autocomplete method to return address data set. Geocoder location service will return address based on provided Latitude & Longitude in the method **getAddress()**

```
//app.component.ts
import { Component, OnInit, ViewChild, ElementRef, NgZone } from
import { MapsAPILoader, MouseEvent } from '@agm/core';
@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent implements OnInit {
  title: string = 'AGM project';
  latitude: number;
  longitude: number;
  zoom: number;
  address: string;
  private geoCoder;
 @ViewChild('search')
```

Angular 8/7 | Add Google Maps with Location Search in Angular 2 plus Applications using Angular Google Maps Module ... public searchElementRef: ElementRef; constructor(private mapsAPILoader: MapsAPILoader,

```
private ngZone: NgZone
) { }
ngOnInit() {
  //load Places Autocomplete
  this.mapsAPILoader.load().then(() => {
    this.setCurrentLocation();
    this.geoCoder = new google.maps.Geocoder;
    let autocomplete = new google.maps.places.Autocomplete(this
      types: ["address"]
    });
    autocomplete.addListener("place changed", () => {
      this.ngZone.run(() => {
        //get the place result
        let place: google.maps.places.PlaceResult = autocomple.
        //verify result
        if (place.geometry === undefined || place.geometry ===
          return;
        }
        //set latitude, longitude and zoom
        this.latitude = place.geometry.location.lat();
        this.longitude = place.geometry.location.lng();
        this.zoom = 12;
      });
    });
  });
// Get Current Location Coordinates
private setCurrentLocation() {
  if ('geolocation' in navigator) {
    navigator.geolocation.getCurrentPosition((position) => {
      this.latitude = position.coords.latitude;
      this.longitude = position.coords.longitude;
      this.zoom = 8;
```

For making it look beautiful we have added bootstrap.css in **index.html**

}

<link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/|</pre>

Check working demo here

That's it! Run application \$ ng serve -- open to see a Google Map with Search Bar to search places. The marker can be dragged anywhere to get location address with coordinates.

Also Check

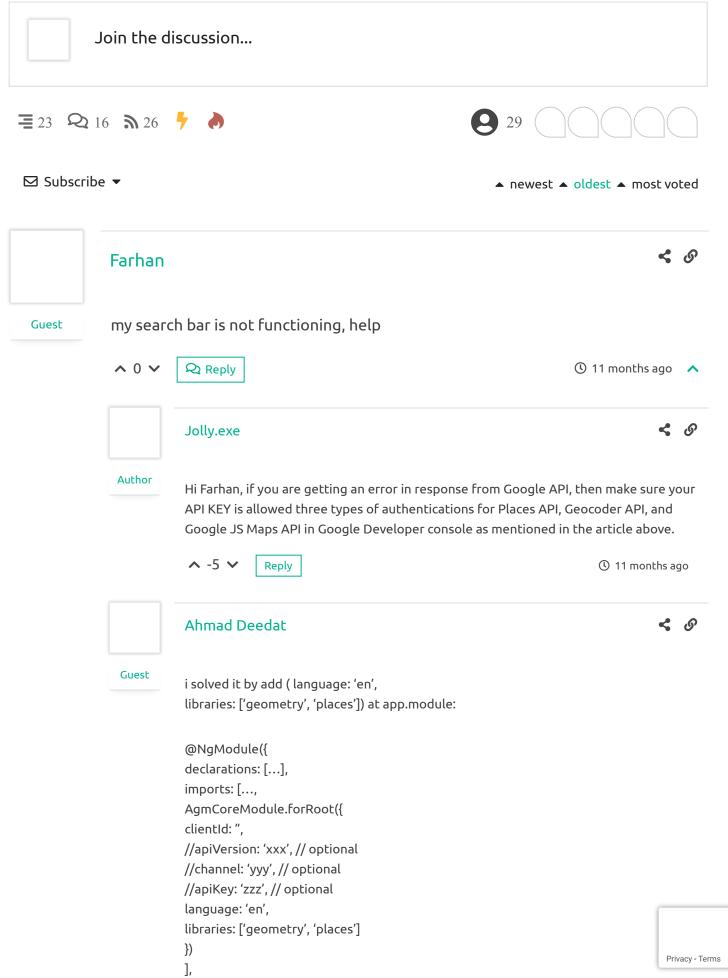
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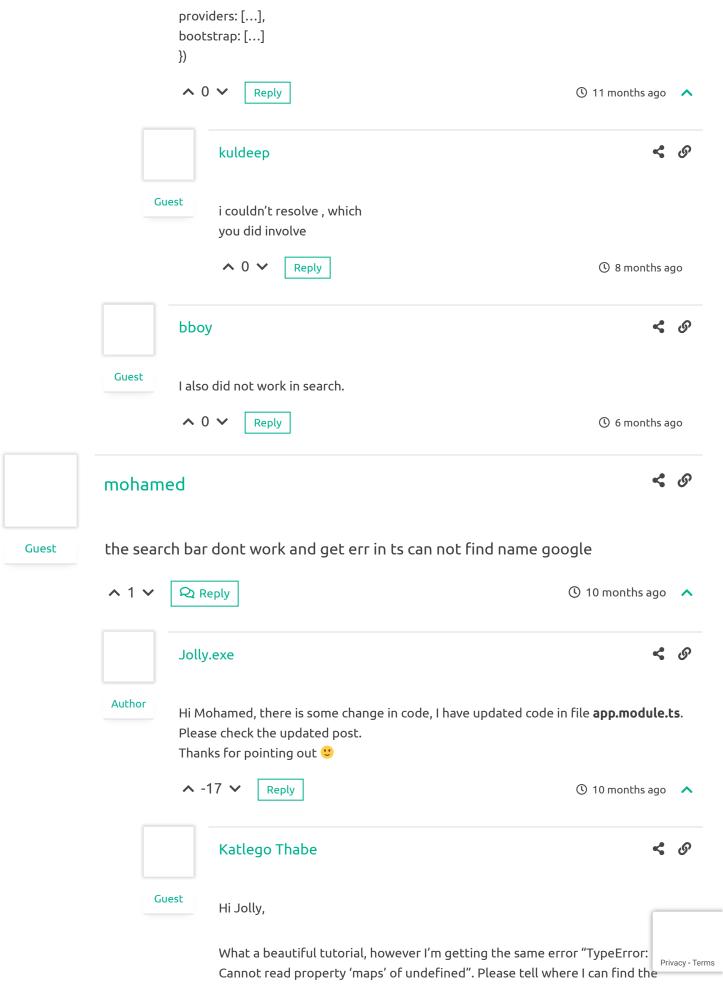
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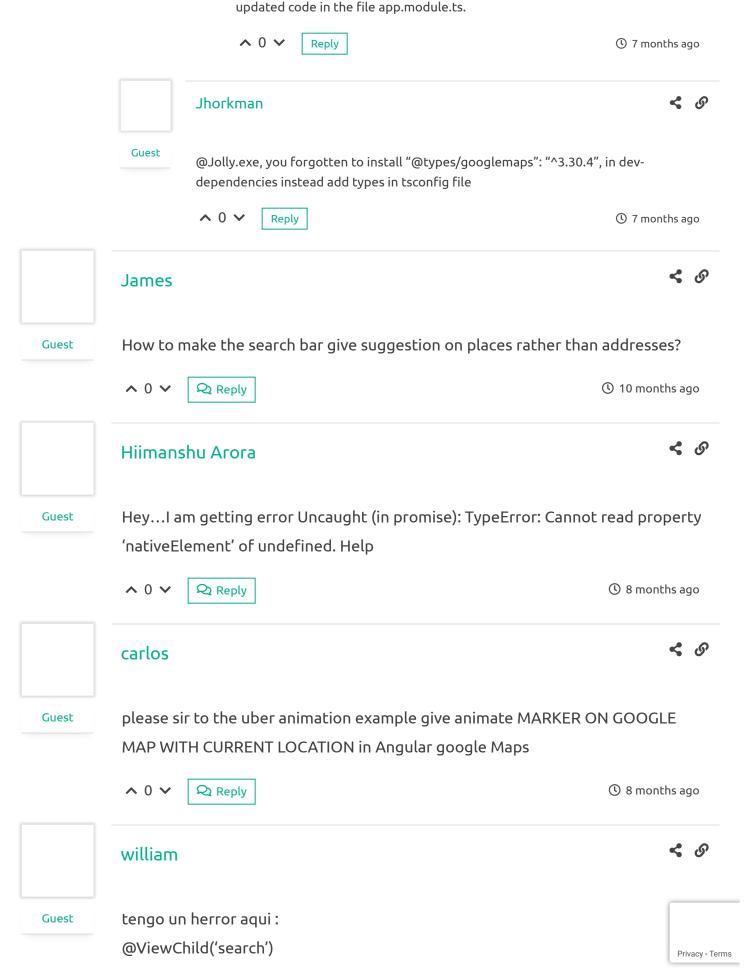
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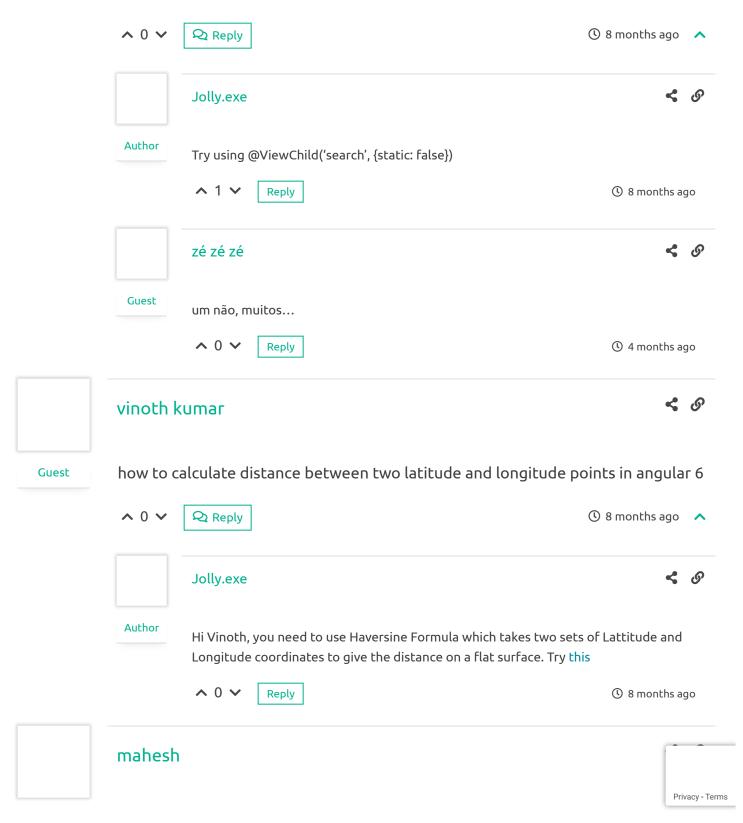


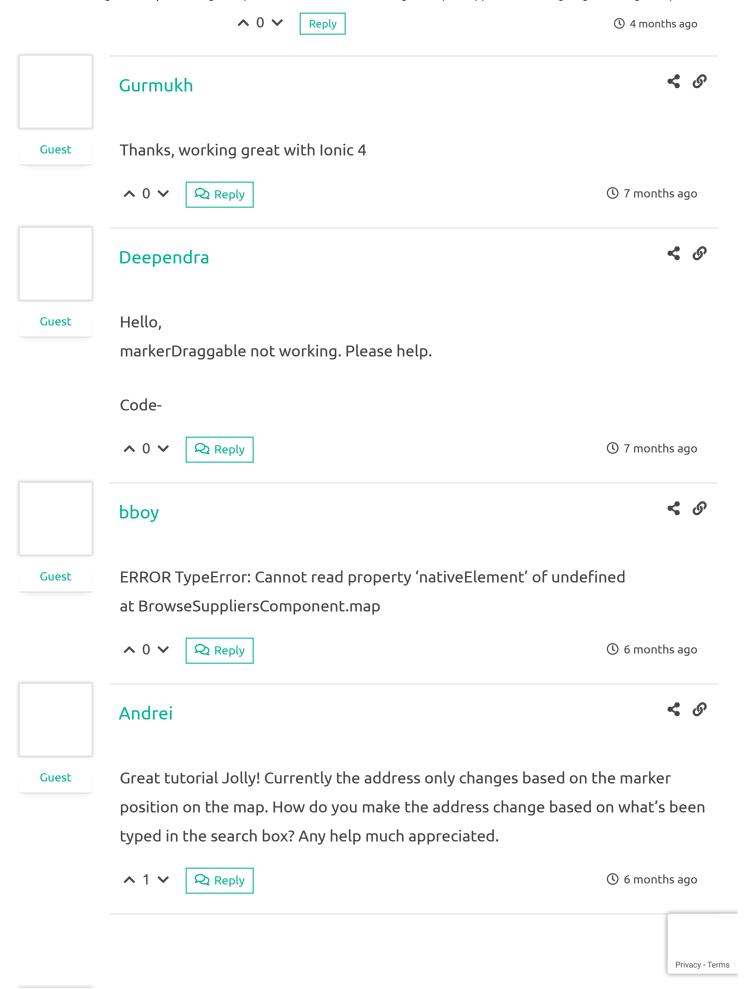


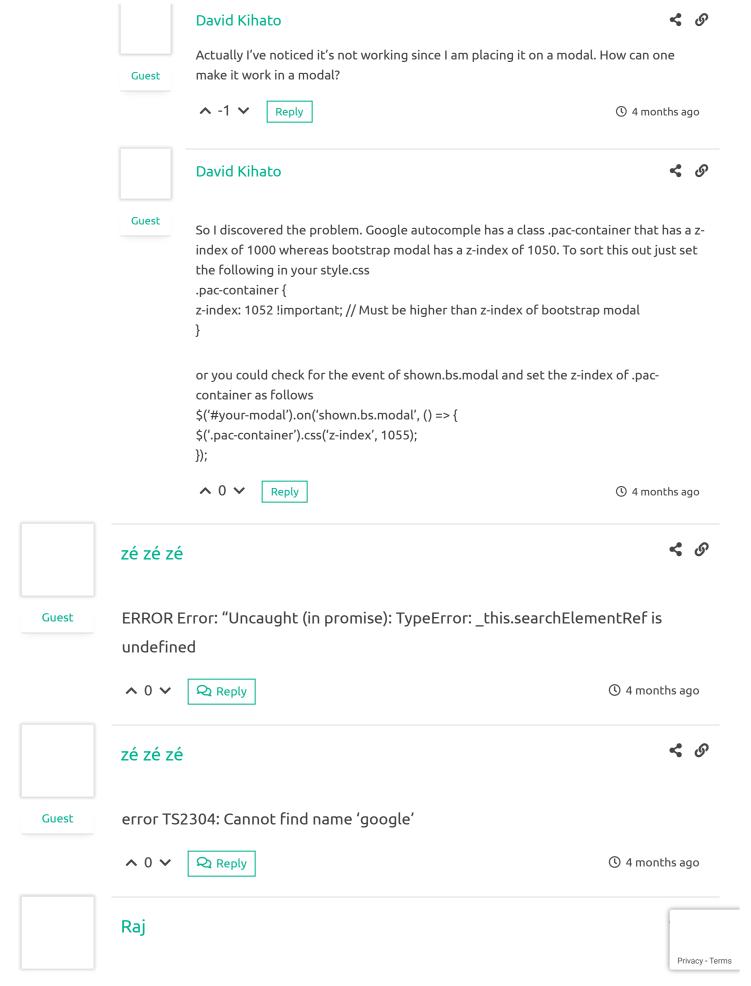
public searchElementRef: ElementRef;

y me dice esto al ejecutar ng serve –open

ERROR in src/app/home/map/map.component.ts(18,4): error TS2554: Expected 2 arguments, but got 1.







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