

Create A Fragment URL in Angular 8 (Jump-To-Anchor)



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Code And Demo

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In this tutorial, we will show to implement the Fragment URL in <u>Angular 8</u> i.e. nothing but the link which jumps to the content which contains the id mention in the fragment of an angular router.

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let's create the app routing assume wich display the home page content on the /content url. i.e on /content url our main app.component.ts / .html data will be displayed.

app-routing.module.ts

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```
import { NgModule } from '@angular/core';
import { CommonModule } from '@angular/common';
import { RouterModule, Routes, ExtraOptions } from '@angular/router';
import { AppComponent } from '../app.component';
const routerOptions: ExtraOptions = {
  scrollPositionRestoration: 'enabled',
  anchorScrolling: 'enabled',
  scrollOffset: [0, 64],
};
const routes: Routes = [
 {
    path: 'content',
    component: AppComponent,
  },
    path: '',
    redirectTo: 'content',
    pathMatch: 'full'
  3
 ]
@NgModule({
  imports: [CommonModule, RouterModule.forRoot(routes, routerOptions)],
  exports: [RouterModule]
})
export class AppRoutingModule { }
```



lets split up the router module parts to make it understand properly.

Router Options

we will create a configuration which will contain options for the router to make our fragment router attribute work.

```
const routerOptions: ExtraOptions = {
   scrollPositionRestoration: 'enabled',
   anchorScrolling: 'enabled',
   scrollOffset: [0, 64],
};
```

scrollPositionRestoration: on change of router url the position of the screen will set to the top.

anchorScrolling: When set to 'enabled', scrolls to the anchor element when the URL has a fragment. Anchor scrolling is disabled by default.

scrollOffset: Configures the scroll offset the router will use when scrolling to an element.

Set Options forRoot

set the ExtraOptions to the RouterModule.forRoot() method.

```
@NgModule({
  imports: [CommonModule, RouterModule.forRoot(routes, routerOptions)], //Ex
  ...
})
```

Routes

as it is mention that we will route our home page on /content so the routes are declared as:

```
Router Options
```

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```
const routes: Routes = [
    path: 'content',
    component: AppComponent,
},
    path: '',
    redirectTo: 'content', // Empty path will redirect to content route.
    pathMatch: 'full'
}
];
```

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Import RoutingModule in AppModule

Now just import the RouterModule file in our main app module file so it can be run thought out the application.

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { AppComponent } from './app.component';
import { HelloComponent } from './hello.component';
import { RouterModule, Router } from '@angular/router';
import { AppRoutingModule } from './app-routing/app-routing.module';
@NgModule({
  imports: [ BrowserModule, RouterModule, AppRoutingModule ], // import declarations: [ AppComponent, HelloComponent ],
  bootstrap: [ AppComponent ],
  providers: [ ]
})
export class AppModule { }
```

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Create A Fragment URL

At the final, we will create a markdown which will contain an angular attribute i.e routerLink and fragment.

The fragment will contain the id of that section and that ID will use in anchor tag!

Suppose we have array of content

app.component.ts

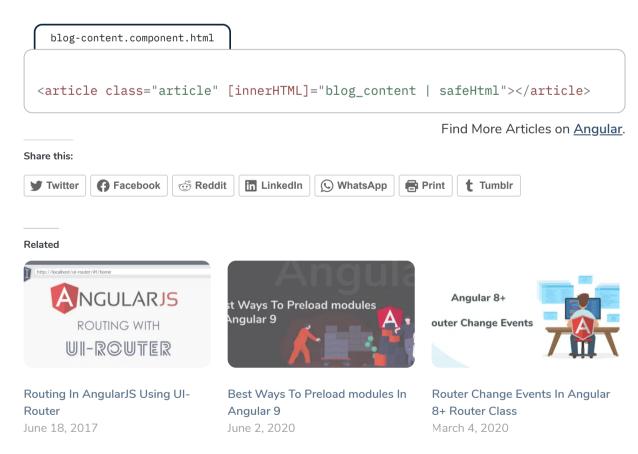
Incase if your markup data are loaded from API and that contain hash content routing i.e fragment URL in [innerHTML] you can manually replace some URLs to make it work in angular application.

you can see my example the way I implemented it.

```
blog-content.component.ts
import { Component } from '@angular/core';
@Component({
 selector: 'my-app',
 templateUrl: './app.component.html',
  styleUrls: [ './app.component.css' ]
export class BlogContentComponent implements OnInit, AfterViewChecked {
  @Input()
 blog_content: String;
  @Input()
  slug: String;
  constructor() {}
  ngOnInit() {}
  ngAfterViewChecked() {
   if (this.blog_content ) {
      const anchors = document.getElementsByTagName('a');
      for (let i = 0; i < anchors.length; i++) {
        if (anchors[i].hash) { // hash URL
          const hash = anchors[i].hash.replace('#', '');
          anchors[i].setAttribute('href', `/${this.slug}#${hash}`);
          anchors[i].setAttribute('fragment', `${hash}`);
          anchors[i].setAttribute('ng-reflect-fragment', `${hash}`);
          anchors[i].setAttribute('routerlink', `/${this.slug}`);
          anchors[i].setAttribute('ng-reflect-router-link', '/${this.slug}');
        } else if (anchors[i].href.match(environment.site_url_regex)) { // s
          const url = anchors[i].href.replace(environment.site_url, ''); // s;
          anchors[i].setAttribute('href', `${url}`);
          anchors[i].setAttribute('routerlink', `${url}`);
          anchors[i].setAttribute('ng-reflect-router-link', `${url}`);
```

this will conver normal URL to angular router links with fragments.

and html will be same as it is

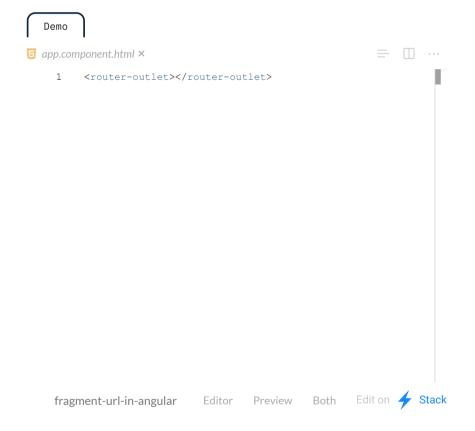


Tags: Angular 8, Angular Router, Fragment Url, routes

```
import { Component } from '@angular/core';
@Component({
   selector: 'my-app',
   templateUrl: './app.component.html',
   styleUrls: [ './app.component.css' ]
})
export class AppComponent {
   name = 'Angular';
   ids: Array<String> = ['one', 'two', 'three', 'four']
}
```

So in our app.component.html we will configure our anchor tags as mention below

and the section with id attribute will be as follow



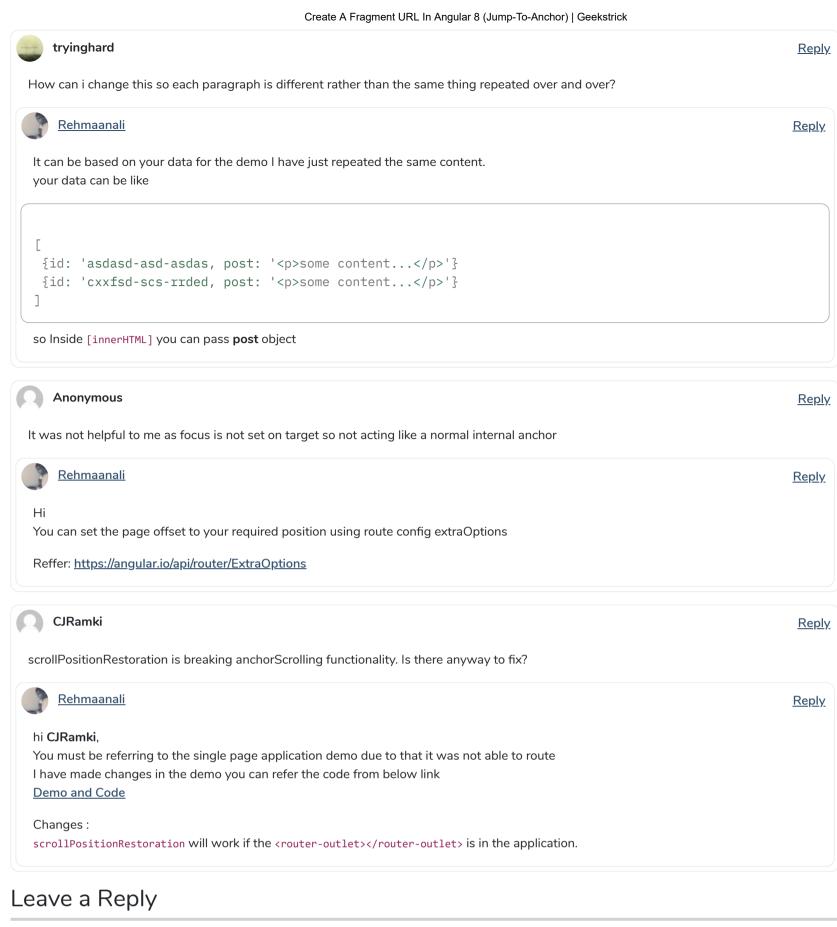
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Fragment URL In [innerHTML]



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