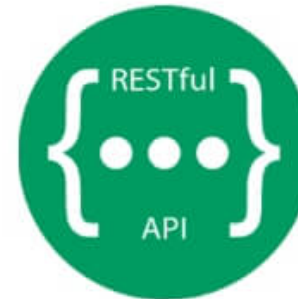


Web API



Angular 13 CRUD Example with Web API

Use the following steps and create crud (create, read, update, delete) app in angular 13 apps; as follows:

- Step 1 – Create New Angular App
- Step 2 – Install Bootstrap
- Step 3 – Create Module & Routing
- Step 4 – Create CRUD Component For Module
- Step 5 – Adding Routes
- Step 6 – Create Interface
- Step 7 – Create Services
- Step 8 – Add Code in Component and Template
- Step 9 – Import to Modules
- Step 10 – Start Angular App

Step 1 – Create New Angular App

First of all, open your terminal and execute the following command on it to install angular app:

```
ng new my-crud-app --routing
```

```
npm install bootstrap --save
```

After that, import this css file into angular crud app:

src/styles.css

Step 3 – Create Module & Routing

In this step, execute the following command on terminal to create module in angular app:

```
ng generate module post --routing
```

The above given command will create files in the following locations:



[Angular 13 Material Datepicker Example](#)

Step 4 – Create CRUD Component

In this step, execute the following commands on the terminal to create CRUD components in angular app:

```
ng generate component post/index  
ng generate component post/view  
ng generate component post/create  
ng generate component post/edit
```

Now, you can see that, the above commands will create some component files into the following locations:

```
src/app/post/index/*  
src/app/post/view/*
```

Step 5 – Adding Routes

In this step, visit the **src/app/post** directory and open **post-routing.module.ts**. Then add the routes into **post-routing.module.ts** file:

```
1  import { NgModule } from '@angular/core';
2  import { Routes, RouterModule } from '@angular/router';
3  import { IndexComponent } from '../index/index.component';
4  import { ViewComponent } from '../view/view.component';
5  import { CreateComponent } from '../create/create.component';
6  import { EditComponent } from '../edit/edit.component';
7
8  const routes: Routes = [
9    { path: 'post', redirectTo: 'post/index', pathMatch: 'full' },
10   { path: 'post/index', component: IndexComponent },
11   { path: 'post/:postId/view', component: ViewComponent },
12   { path: 'post/create', component: CreateComponent },
13   { path: 'post/:postId/edit', component: EditComponent }
14 ];
15
16 @NgModule({
```

```
17 | imports: [RouterModule.forChild(routes)],  
18 | exports: [RouterModule]
```



[Angular 13 Image Upload with Preview Example](#)

Step 6 – Create Interface

Now, execute the following command on terminal to create interface:

```
ng generate interface post/post
```

Then visit **src/app/post directory and open post.ts**. And add the following code into it:

```
export interface Post {  
  id: number;  
  title: string;  
  body: string;  
}
```


Step 7 – Create Services



```
ng generate service post/post
```

After that, visit **src/app/post** directory and open **post.service.ts**. Then add the following code into it:

```
1  import { Injectable } from '@angular/core';
2  import { HttpClient, HttpHeaders } from '@angular/common/http';
3
4  import { Observable, throwError } from 'rxjs';
5  import { catchError } from 'rxjs/operators';
6
7  import { Post } from './post';
8
9  @Injectable({
10     providedIn: 'root'
11 })
12 export class PostService {
13
14     private apiUrl = "https://jsonplaceholder.typicode.com";
15
16     httpOptions = {
17         headers: new HttpHeaders({
18             'Content-Type': 'application/json'
19         })
20     }
21
22     constructor(private httpClient: HttpClient) { }
23
24     getAll(): Observable<Post[]> {
```

```
25     return this.httpClient.get<Post[]>(this.apiUrl + '/posts/')
26     .pipe(
```



```
35     )
36 }
37
38 find(id): Observable<Post> {
39     return this.httpClient.get<Post>(this.apiUrl + '/posts/' + id)
40     .pipe(
41         catchError(this.errorHandler)
42     )
43 }
44
45 update(id, post): Observable<Post> {
46     return this.httpClient.put<Post>(this.apiUrl + '/posts/' + id, JSON.stringify(post), this.httpOptions)
47     .pipe(
48         catchError(this.errorHandler)
49     )
50 }
51
52 delete(id){
53     return this.httpClient.delete<Post>(this.apiUrl + '/posts/' + id, this.httpOptions)
54     .pipe(
55         catchError(this.errorHandler)
56     )
57 }
58
59 errorHandler(error) {
60     let errorMessage = '';
61     if(error.error instanceof ErrorEvent) {
62         errorMessage = error.error.message;
63     } else {
64         errorMessage = `Error Code: ${error.status}\nMessage: ${error.message}`;
65     }
66     return throwError(errorMessage);
67 }
68 }
69 }
```

Note that, In this example, we will use <https://jsonplaceholder.typicode.com> web site api. If you want to create Apis or web services in PHP, Laravel and codeigniter, so you can click on the following urls:

- [Create Web Service using PHP Laravel](#)
- [Create Web Service using PHP Codeigniter](#)

[Angular 13 File Upload Example](#)

Step 8 – Add Code in Component and Template

In this step, Create components and template like list page, create page, edit page and view page in angular crud app.

1) List Page Template and Component



```
1  import { Component, OnInit } from '@angular/core';
2  import { PostService } from '../post.service';
3  import { Post } from '../post';
4
5  @Component({
6    selector: 'app-index',
7    templateUrl: './index.component.html',
8    styleUrls: ['./index.component.css']
9  })
10 export class IndexComponent implements OnInit {
11
12     posts: Post[] = [];
13
14     /*-----
```

15

16

Created constructor



```
25     */
26     ngOnInit(): void {
27         this.postService.getAll().subscribe((data: Post[])=>{
28             this.posts = data;
29             console.log(this.posts);
30         })
31     }
32
33     /**
34     * Write code on Method
35     *
36     * @return response()
37     */
38     deletePost(id:number){
39         this.postService.delete(id).subscribe(res => {
40             this.posts = this.posts.filter(item => item.id !== id);
41             console.log('Post deleted successfully!');
42         })
43     }
44
45 }
```

Now, visit **src/app/post/index** directory and open **index.component.html** or create **index.component.html**, if not exist. Then add the following code into it:

```
1 <div class="container">
```

```
12     </tr>
13     <tr *ngFor="let post of posts">
14         <td>{{ post.id }}</td>
15         <td>{{ post.title }}</td>
16         <td>{{ post.body }}</td>
17         <td>
18             <a href="#" [routerLink]="['/post/', post.id, 'view']" class="btn btn-info">View</a>
19             <a href="#" [routerLink]="['/post/', post.id, 'edit']" class="btn btn-primary">Edit</a>
20             <button type="button" (click)="deletePost(post.id)" class="btn btn-danger">Delete</button>
21         </td>
22     </tr>
23 </table>
24 </div>
```

2) Add Post Page Template and Component

First of all, visit **src/app/post/create** directory and open **create.component.ts** or create **create.components.ts**, if not exist. Then add the following code into it:

```
1 import { Component, OnInit } from '@angular/core';
2 import { PostService } from '../post.service';
3 import { Router } from '@angular/router';
4 import { FormGroup, FormControl, Validators } from '@angular/forms';
5
```

```
6 | @Component({
7 |   selector: 'app-create',
```



```
16 | -----
17 | Created constructor
18 | -----
19 | -----*/
20 | constructor(
21 |   public postService: PostService,
22 |   private router: Router
23 | ) { }
24 |
25 | /**
26 |  * Write code on Method
27 |  *
28 |  * @return response()
29 |  */
30 | ngOnInit(): void {
31 |   this.form = new FormGroup({
32 |     title: new FormControl('', [Validators.required]),
33 |     body: new FormControl('', Validators.required)
34 |   });
35 | }
36 |
37 | /**
38 |  * Write code on Method
39 |  *
40 |  * @return response()
41 |  */
42 | get f(){
43 |   return this.form.controls;
44 | }
45 |
46 | /**
47 |  * Write code on Method
48 |  *
49 |  * @return response()
50 |  */
51 | submit(){
```

```
52 console.log(this.form.value);
53 this.postService.create(this.form.value).subscribe((res:any) => {
```



Now, visit **src/app/post/create** a directory and open **create.component.html** or create **create.component.html**, if not exist. Then add the following code into it:

```
1 <div class="container">
2   <h1>Create New Post</h1>
3
4   <a href="#" routerLink="/post/index" class="btn btn-primary">Back</a>
```



```
15         <div *ngIf="'+['title'].touched && +['title'].invalid" class="alert alert-danger">
16             <div *ngIf="f['title'].errors && f['title'].errors['required']">Title is required.</div>
17         </div>
18     </div>
19
20     <div class="form-group">
21         <label for="body">Body</label>
22         <textarea
23             formControlName="body"
24             id="body"
25             type="text"
26             class="form-control">
27         </textarea>
28         <div *ngIf="f['body'].touched && f['body'].invalid" class="alert alert-danger">
29             <div *ngIf="f['body'].errors && f['body'].errors['required']">Body is required.</div>
30         </div>
31     </div>
32
33     <button class="btn btn-primary" type="submit" [disabled]="!form.valid">Submit</button>
34 </form>
35 </div>
```

3) Edit Page Template and Component

Next, visit **src/app/post/edit** directory and open **edit.component.ts** or create **edit.components.ts**, if not exist. Then add the following code into it:

```
8     selector: 'app-edit',
9     templateUrl: './edit.component.html',
10    styleUrls: ['./edit.component.css']
11  })
12  export class EditComponent implements OnInit {
13
14    id!: number;
15    post!: Post;
16    form!: FormGroup;
17
18    /*-----
19    -----
20    Created constructor
21    -----
22    -----*/
23    constructor(
24      public postService: PostService,
25      private route: ActivatedRoute,
26      private router: Router
27    ) { }
28
29    /**
30     * Write code on Method
31     *
32     * @return response()
33     */
34    ngOnInit(): void {
35      this.id = this.route.snapshot.params['postId'];
36      this.postService.find(this.id).subscribe((data: Post) => {
37        this.post = data;
38      });
39
40      this.form = new FormGroup({
41        title: new FormControl('', [Validators.required]),
42        body: new FormControl('', Validators.required)
43      });
```

```
44 }
45
```



```
54
55 /**
56  * Write code on Method
57  *
58  * @return response()
59  */
60 submit(){
61   console.log(this.form.value);
62   this.postService.update(this.id, this.form.value).subscribe((res:any) => {
63     console.log('Post updated successfully!');
64     this.router.navigateByUrl('post/index');
65   })
66 }
67
68 }
```

Now, visit **src/app/post/edit** a directory and open **edit.component.html** or create **edit.component.html**, if not exist. Then add the following code into it:

```
1 <div class="container">
2   <h1>Update Post</h1>
```



```
11         formControlName="title"
12         id="title"
13         type="text"
14         [(ngModel)]="post.title"
15         class="form-control">
16     <div *ngIf="f['title'].touched && f['title'].invalid" class="alert alert-danger">
17         <div *ngIf="f['title'].errors && f['title'].errors['required']">Title is required.</div>
18     </div>
19 </div>
20
21 <div class="form-group">
22     <label for="body">Body</label>
23     <textarea
24         formControlName="body"
25         id="body"
26         type="text"
27         [(ngModel)]="post.body"
28         class="form-control">
29     </textarea>
30     <div *ngIf="f['body'].touched && f['body'].invalid" class="alert alert-danger">
31         <div *ngIf="f['body'].errors && f['body'].errors['required']">Body is required.</div>
32     </div>
33 </div>
34
35     <button class="btn btn-primary" type="submit" [disabled]="!form.valid">Update</button>
36 </form>
37 </div>
```

4) Detail Page Template and Component

```
4  import { Post } from '../post';
5
6  @Component({
7    selector: 'app-view',
8    templateUrl: './view.component.html',
9    styleUrls: ['./view.component.css']
10 })
11 export class ViewComponent implements OnInit {
12
13     id!: number;
14     post!: Post;
15
16     /*-----
17     -----
18     Created constructor
19     -----
20     -----*/
21     constructor(
22         public postService: PostService,
23         private route: ActivatedRoute,
24         private router: Router
25     ) { }
26
27     /**
28     * Write code on Method
29     *
30     * @return response()
31     */
32     ngOnInit(): void {
33         this.id = this.route.snapshot.params['postId'];
34
35         this.postService.find(this.id).subscribe((data: Post)=>{
36             this.post = data;
37         });
38     }
39 }
```

```
1  <div class="container">
2    <h1>View Post</h1>
3
4    <a href="#" routerLink="/post/index" class="btn btn-primary">Back</a>
5
6    <div>
7      <strong>ID:</strong>
8      <p>{{ post.id }}</p>
9    </div>
10
11   <div>
12     <strong>Title:</strong>
13     <p>{{ post.title }}</p>
14   </div>
15
16   <div>
17     <strong>Body:</strong>
18     <p>{{ post.body }}</p>
19   </div>
20
21 </div>
```

Now, visit **src/app** directory and open **app.component.html**. Then add the following line into it:

In this step, Now, visit **src/app** directory and open **app.module.ts**. Then add the following line into it:

```
1  import { BrowserModule } from '@angular/platform-browser';
2  import { NgModule } from '@angular/core';
3  import { HttpClientModule } from '@angular/common/http';
4
5  import { AppRoutingModule } from './app-routing.module';
6  import { AppComponent } from './app.component';
7
8  import { PostModule } from './post/post.module';
9
10 @NgModule({
11   declarations: [
12     AppComponent
13   ],
14   imports: [
15     BrowserModule,
16     AppRoutingModule,
17     PostModule,
18     HttpClientModule
19   ],
20   providers: [],
21   bootstrap: [AppComponent]
22 })
23 export class AppModule { }
```

And visit **src/app/post** directory and open **post.module.ts**. Then add the following line into it:



```
4 import { PostRoutingModule } from './post-routing.module';
5 import { IndexComponent } from './index/index.component';
6 import { ViewComponent } from './view/view.component';
7 import { CreateComponent } from './create/create.component';
8 import { EditComponent } from './edit/edit.component';
9
10 import { FormsModule, ReactiveFormsModule } from '@angular/forms';
11
12 @NgModule({
13   declarations: [IndexComponent, ViewComponent, CreateComponent, EditComponent],
14   imports: [
15     CommonModule,
16     PostRoutingModule,
17     FormsModule,
18     ReactiveFormsModule
19   ]
20 })
21 export class PostModule { }
```


Step 10 – Start Angular App

In this step, execute the following command on terminal to start angular app:

```
ng serve
```

Then open your browser and hit the following url on it:

```
localhost:4200/post
```

Admin

My name is Devendra Dode. I am a full-stack developer, entrepreneur, and owner of Tutsmake.com. I like writing tutorials and tips that can help other developers. I share tutorials of PHP, Python, Javascript, JQuery, Laravel, Livewire, Codeigniter, Node JS, Express JS, Vue JS, Angular JS, React Js, MySQL, MongoDB, REST APIs, Windows, Xampp, Linux, Ubuntu, Amazon AWS, Composer, SEO, WordPress, SSL and Bootstrap from a starting stage. As well as demo example.

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