

Routing And Navigation Angular







The browser is a familiar model of application navigation:

- Enter a URL in the address bar and the browser navigates to a corresponding page.
- Click links on the page and the browser navigates to a new page.
- Click the browser's back and forward buttons and the browser navigates backward and forward through the history of pages you've seen.

The Angular Router

- It can interpret a browser URL as an instruction to navigate to a client-generated view.
- It can pass optional parameters along to the supporting view component that help it decide what specific content to present.
- You can bind the router to links on a page and it will navigate to the appropriate application view when the
 user clicks a link.
- You can navigate imperatively when the user clicks a button, selects from a drop box, or in response to some other stimulus from any source.
- And the router logs activity in the browser's history journal so the back and forward buttons work as well.



Agenda:

- 1. Configuring the Routes
- 2. Implementing SPA
- 3. Working with Route and Query parameters
- 4. Programmatic Navigation



1. Configure the routes: import router module to app.module.ts

```
import { RouterModule } from '@angular/router';
imports: [
   BrowserModule,
   HttpModule,
   RouterModule.forRoot([
      { path: '', component: HomeComponent },
      { path: 'followers/:id', component: GithubprofileComponent },
      { path: 'followers', component: GithubfollowersComponent },
      { path: 'posts', component: PostsComponent },
      { path: '**', component: NotfoundComponent },
    ])
```

2. Configure the routes: add router outlet to app.component.html

```
<app-navbar></app-navbar><router-outlet></router-outlet>
```



Link Navigation: Navigating from Navbar menus

The problem:

- Using href in anchor tag will reinitialize the component each time whenever user clicks on the link.
- If the project is very big, waiting time will be increased.
- To fix this instead of using href use Router Link. Details are given in the next slide



Router Link Directive: Dynamic Navigation

Navigating the link with dynamic link is achieved by using the router link binding as shown below,

Dynamic Active class

- Changing the active class dynamically depending on the current page user is accessing is achieved by using routerLinkActive directive.
- Apply this directive on all the list of navbar.



Accessing route parameter from URL

- Angular provides us with the ActivatedRoute object.
- We can access the URL through this object, but first, you have to inject it into your component. Inject it like any other service:

```
import { Component, OnInit } from '@angular/core';
import { ActivatedRoute } from '@angular/router';

@Component({
    selector: 'app-githubprofile',
    templateUrl: './githubprofile.component.html',
    styleUrls: ['./githubprofile.component.css']
})
export class GithubprofileComponent implements OnInit
{
    constructor(private route: ActivatedRoute) { }
}
```

Accessing route parameter from URL

- Fetch the parameter from URL by subscribing to the activated route object.
- Using the subscription is the same as any other subscription. If there is a change then the observable's value will get pushed to the callback function.

```
export class GithubprofileComponent implements OnInit
{
    constructor(private route: ActivatedRoute) { }
    ngOnInit() {
        this.route.paramMap
        .subscribe(params => {
            console.log(params);
            let id = +params.get('id');
            console.log("The ID is" + id);
        });
    }
}
```

Accessing query parameters from URL

- Accessing query string parameters is similar to accessing URL parameters.
- It's just a different property on the ActivatedRoute object; queryParamMap. So all the same principles apply, but make sure to use the right property.

```
export class GithubprofileComponent implements OnInit {
  constructor(private route: ActivatedRoute) { }
  ngOnInit() {
    this.route.queryParamMap.
      subscribe(params => {
        console.log("The optional parameters are" + params);
        let pageNumber = params.get('page');
        let sortOrder = params.get('order');
        console.log("The actual values" + pageNumber + sortOrder);
      });
```

Exercise



- Create a GitHub profile page by accessing REST API provided by the GIT
 - Example URL: https://api.github.com/users/
- Display the current user details, which should have the following details:
 - ✓ Name of the user
 - ✓ Profile pic
 - ✓ Number of followers
 - ✓ Place











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