Agenda

- ❖ Routing
- ❖ CanActivate
- ❖ CanDeactivate
- ❖ Observable
- ❖ Resolver
- ❖ Lazy Load Module
- ❖ Active Route

Routing

```typescript
import {Routes} from '@angular/router';
import {FlightsComponent} from './app/flights/flights.component';
import { FlightDetailsComponent } from './app/flight-details/flight-details.component'
export const appRoutes:Routes =[
    {path :"flights", component: FlightsComponent},
    {path:"flight/:id",component:FlightDetailsComponent},
    {path:"",redirectTo:"/flights", pathMatch:'full'}
]
```

```typescript
import { AppComponent } from './app.component';
import { FlightsComponent } from './flights/flights.component';
import {RouterModule} from '@angular/router';
import {FlightsService } from './flights.service';
import {appRoutes } from '../routes';
import { FlightDetailsComponent } from './flight-details/flight-details.component';
@NgModule({
  declarations: [AppComponent,FlightsComponent,FlightDetailsComponent],
  imports: [BrowserModule,FormsModule,HttpModule,RouterModule.forRoot(appRoutes)],
  providers: [FlightsService],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

```html
<router-outlet></router-outlet>
```

Routing Cont.

```
import { Injectable } from '@angular/core';

@Injectable()
export class FlightsService {
flights = [{id:1,name :"Air India",theme :"Red", country : "India"},
          {id:2,name :"British Airways", theme:"white", country:"United Kingdom
          {id:3,name :"Lufthansa Airways",theme:"Yellow", country:"German"}]

getFlightList(){return this.flights;}

getFlightDetails(id){    return this.flights.find(flight => flight.id == id);}

}
```

```
export class FlightsComponent implements OnInit {
private flights:any;
  constructor(private flightService:FlightsService) { }
  ngOnInit() {
    this.flights = this.flightService.getFlightList();
  }
}
```

app works!

flights works!

Name: Air India
Name: British Airways
Name: Lufthansa Airways

```
<p>   flights works!</p>
<div  *ngFor="let flight of flights">
<a [routerLink]="['/flight', flight.id]" >Name: {{flight.name}} </a></div>
```

Routing Cont.

```
export class FlightDetailsComponent implements OnInit {
flight:any;
  constructor(private flightService:FlightsService, private route:ActivatedRoute,
    private router:Router) { }
  ngOnInit() {
    this.flight = this.flightService.getFlightDetails(this.route.snapshot.params["id"]);
  }
  gotoFlightList(){
    this.router.navigate(['/flights']);
  }
}
```

```
<p>  flight-details works!</p>
Name : {{flight.name}}<br>
Theme : {{flight.theme}}<br>
Country : {{flight.country}}<br>
<button (click)="gotoFlightList()">Go to Flight</button>
```

app works!

flight-details works!

Name : Air India
Theme : Red
Country : India
Go to Flight

CanActivate

```
export class FlightDetailsComponent implements OnInit {
flight:any;
  constructor(private flightService:FlightsService, private route:ActivatedRoute,
    private router:Router) { }
  ngOnInit() {
    this.flight = this.flightService.getFlightDetails(this.route.snapshot.params["id"]);
  }
  gotoFlightList(){
    this.router.navigate(['/flights']);
  }
}
```

```
<p>  flight-details works!</p>
Name : {{flight.name}}<br>
Theme : {{flight.theme}}<br>
Country : {{flight.country}}<br>
<button (click)="gotoFlightList()">Go to Flight</button>
```

app works!

flight-details works!

Name : Air India
Theme : Red
Country : India
Go to Flight

CanDeactivate

```typescript
export const appRoutes:Routes =[
    {path :"flights", component: FlightsComponent},
    {path:"flight/:id",component:FlightDetailsComponent, canActivate:[FlightRouteActivatorServi
    {path:"error",component:ErrorComponent,canDeactivate :['canDeactivateErrorPage']},
    {path:'flightListResolver', component:FlightListResolverComponent,
    resolve :{flightList : FlightListResolver }},
    {path:"",redirectTo:"/flights", pathMatch:'full'}
]
```

```typescript
@NgModule({
  declarations: [AppComponent,FlightsComponent,FlightDetailsComponent, ErrorC
  imports: [BrowserModule,FormsModule,HttpModule,RouterModule.forRoot(appRout
  providers: [FlightsService,FlightRouteActivatorService,FlightListResolver,
  {provide :'canDeactivateErrorPage',useValue : deactivateErrorPage}],
  bootstrap: [AppComponent]
})
export class AppModule { }
function deactivateErrorPage(){ return false;}
```

```typescript
function deactivateErrorPage(component :ErrorComponent)
{ if(component.resetApp)
    {return window.confirm("Are you sure want to reset App ?"); }
  return true;
}
```

Observable Type Response

```
import { Subject } from 'rxjs/Rx';

@Injectable()
export class FlightsService {
flights = [{id:1,name :"Air India",theme :"Red", country : "India"},
           {id:2,name :"British Airways", theme:"white", country:"United King
           {id:3,name :"Lufthansa Airways",theme:"Yellow", country:"German"}]

getFlightObservable() {
  let subject = new Subject();
  setTimeout(() => {subject.next(this.flights); subject.complete();},2000);
  return subject;
}
}
```

```
ngOnInit() {
  this.flightService.getFlightObservable().subscribe(flightList =>
  {  this.flights = flightList;  });
}
```

app works!

flights Observable Type works!

app works!

flights Observable Type works!

Name: Air India
Name: British Airways
Name: Lufthansa Airways

Resolver Type

```typescript
import { Injectable } from '@angular/core';
import { Resolve } from '@angular/router';
import {FlightsService } from './flights.service';
@Injectable()
export class FlightListResolver implements Resolve<any> {
  constructor(private flightService :FlightsService ) { }
  resolve(){
    return this.flightService.getFlightObservable().map(list => list);
  }
}
```

```typescript
import { Component, OnInit } from '@angular/core';
import {ActivatedRoute} from '@angular/router';
@Component({
  selector: 'app-flight-list-resolver',
  templateUrl: './flight-list-resolver.component.html',
  styleUrls: ['./flight-list-resolver.component.css']
})
export class FlightListResolverComponent implements OnInit {
 private flightList;
  constructor(private route :ActivatedRoute) { }

  ngOnInit() {
    this.flightList = this.route.snapshot.data['flightList'];
  }
}
```

app works!

flight-list-resolver works!

Name: Air India
Name: British Airways
Name: Lufthansa Airways

```typescript
export const appRoutes:Routes =[
    {path :"flights", component: FlightsComponent},
    {path:"flight/:id",component:FlightDetailsComponent, canActivate:[FlightRouteActivatorServi
    {path:"error",component:ErrorComponent,canDeactivate :['canDeactivateErrorPage']},
    {path:'flightListResolver', component:FlightListResolverComponent,
    resolve :{flightList : FlightListResolver }},
    {path:"",redirectTo:"/flights", pathMatch:'full'}
]
```

Lazy Load Module

```
import {Routes} from '@angular/router';
import {FlightListComponent} from './flight-list/flight-list.component';
export const flightRoute :Routes = [
{ path:'list', component : FlightListComponent }]
```

```
import { NgModule } from '@angular/core';
import { CommonModule } from '@angular/common';
import { FlightListComponent } from './flight-list/flight-list.component';
import {RouterModule} from '@angular/router';
import {flightRoute} from './flightRoute';
@NgModule({
  imports: [CommonModule, RouterModule.forChild(flightRoute)],
  declarations: [FlightListComponent]
})
export class FlightsModule { }
```

```
import {Routes} from '@angular/router';
import {HotelsComponent} from './app/hotels/hotels.component';
import {HotelDetailsComponent} from './app/hotel-details/hotel-details.comp
export const appRoute : Routes = [
{path :'flight', loadChildren:'app/flights/flights.module#FlightsModule'},
{path:'hotel', component:HotelsComponent},
{path:'hotel/:name', component:HotelDetailsComponent}]
```

http://localhost:4200/flight/list

Active Route Style

```html
<h1> {{title}}</h1>
<button [routerLink]="['/flight/list']" routerLinkActive="active-tab">Flights</button>
<button [routerLink]="['/hotel']" routerLinkActive="active-tab"
[routerLinkActiveOptions]="{exact : true}">Hotel</button>
<router-outlet></router-outlet>
```

```css
.active-tab {background-color: green;}
```

http://localhost:4200/hotel

Flights Hotel

flight-list works!

Name: Air India ; Country : India
Name: British Airways ; Country : United Kingdom
Name: Lufthansa Airways ; Country : German

Flights Hotel

hotels works!

Name: Taj ; city : Mumbai
Name: Radisson ; city : Chennai

http://localhost:4200/hotel/Taj

Flights Hotel

hotel-details works!

Thank You

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