



Angular (Part – 4)

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Content

- Routing and Navigation
- Default Route and Page Redirection

Routing and Navigation

- The Angular **Router** enables **navigation** from one **view** to the next as users perform application tasks

Routing Overview

- It can interpret a browser **URL** as an instruction to navigate to a client-generated **view**
- It can pass **optional parameters** to the 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

Routing Overview

- 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
- The router **logs activity** in the **browser's history** journal so the back and forward buttons work as well.

Routing Application

Employee Details

Department Details

Employee Details/Department Details

index.html

```
<!doctype html>
<head>
  <meta charset="utf-8">
  <title>Routing Application</title>
  <base href="/">
  <meta name="viewport" content="width=device-width, initial-
scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">
</head>
  <body>
    <app-root></app-root>
  </body>
</html>
```

Component Creation for Two Views

1. `ng g c employees --it --is`
 2. `ng g c departments --it --is`
- `it` (to create inline template)
 - `is` (to create inline styles)

app.module.ts

```
import {Routes, RouterModule } from '@angular/router'
import { EmployeesComponent } from './employees/employees.component';
import { DepartmentsComponent} from './departments/departments.component';
const routes : Routes = [
  { path: 'employees', component: EmployeesComponent},
  { path: 'departments', component: DepartmentsComponent}
]
@NgModule( {
  declarations: [ AppComponent, EmployeesComponent, DepartmentsComponent],
  imports : [BrowserModule, RouterModule.forRoot(routes)],
  exports : [RouterModule]
})
export class AppRoutingModule { }
```

app.component.ts

template : `

```
<h1>Routing application</h1>
```

```
<nav>
```

```
  <a routerLink="/employees"
```

```
    routerLinkActive="active" >Employee Details</a>
```

```
  <a routerLink="/departments"
```

```
    routerLinkActive="active">Department Details</a>
```

```
</nav>
```

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

```
`  
;
```

Default Route and Page Redirection

```
const routes : Routes = [  
  { path: '', redirectTo: 'employees', pathMatch: 'full'},  
  { path: 'employees', component: EmployeesComponent},  
  { path: 'departments', component: DepartmentsComponent},  
  { path: '**', component: DefaultPageComponent}  
  // ** should be the last one  
]
```

Route Parameters

ng g c employee_details --is --it

Route Parameters (app.module.ts)

```
const routes : Routes = [  
  { path: '', redirectTo: 'employees', pathMatch: 'full'},  
  { path: 'employees', component: EmployeesComponent},  
  { path: 'departments', component: DepartmentsComponent},  
  { path: 'employees/:id', component: EmployeeDetailsComponent},  
  { path: '**', component: DefaultPageComponent}  
  // ** should be the last one  
]
```

employees.component.ts

```
<table>
  <tr (click)='onEmpIdSelect(emp)'
      *ngFor='let emp of empList'>
    <td>{{ emp.id }} </td> <td>{{ emp.name }} </td>
    <td>{{emp.designation}}</td>
  </tr>
</table>
```

```
public router: Router;
onEmpIdSelect(emp) {
  this.router.navigate( [ '/employees' , emp.id] )
}
```

Employee-details.component.ts

```
template: ' <p> Employee id = {{ empld }} </p> '
```

```
...
```

```
export class EmployeeDetailsComponent implements OnInit {  
  public empld
```

```
  constructor(private route: ActivatedRoute) { }
```

```
  ngOnInit() {  
    this.empld = parseInt(this.route.snapshot.paramMap.get('id'))  
  }  
}
```

References

- <https://angular.io/docs>
- <https://www.tutorialspoint.com/angular4/>