# ANGULAR NESTED ROUTES





## **MODULE OBJECTIVES**

At the end of this module, you should be able to:

- Add Nested routes
- Create child routes with route params



# AGENDA

► Nesting of Routes



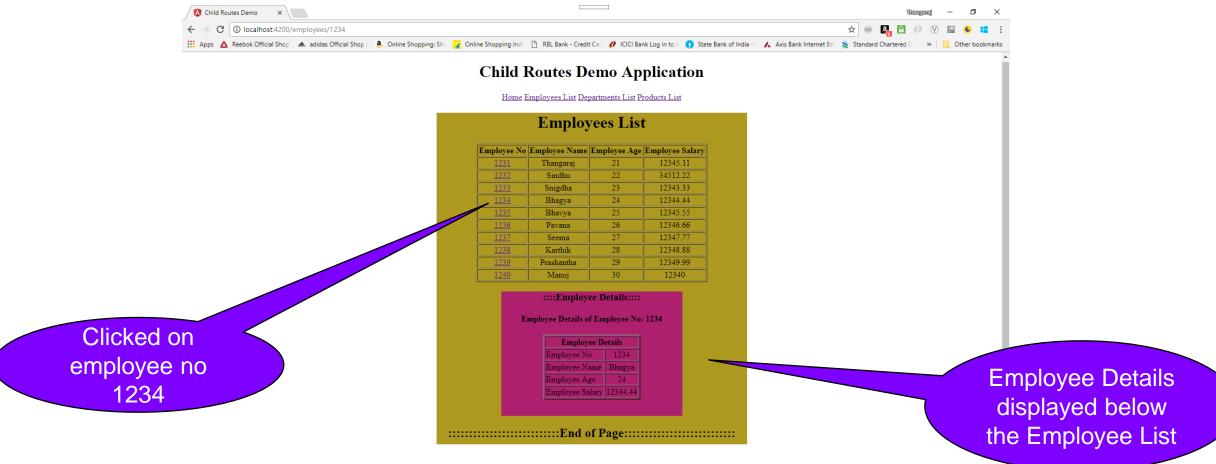
#### **Nesting Routes**

- All the routes created so far are relative to the root component
- But when the application grows in size, we may want to have routes relative to other components as well
- These types of nested routes are also called as child routes.
- Adding child routes implies adding more <router-outlet> to the app, besides the <router-outlet> already added in AppComponent's template.



#### **Child Routes – Problem Definition**

Consider the Employee List Page. If the user wants to click on the Empno and see the employee details
in the same view along with the Employee List.





#### **Child Route - Configuration**

 Create a new component EmployeeComponent and update the AppRoutingModule to include a new route mapping

```
const routes: Routes=[
    {path:'home', component:HomeComponent},
    {path:'employees', component:EmployeesListComponent,
        children: [{path:':empno',component:EmployeeComponent}]
    },
    {path:'departments', component:DepartmentListComponent},
    {path:'products', component:ProductsListComponent},
    {path:'products/:prodno',component:ProductComponent},
    {path: ", redirectTo: '/home', pathMatch: 'full' },
    {path: '**', component:HomeComponent}
]
```



#### **Modify EmployeeService**

 Add an additional method getEmployeeByEmployeeNo(eno:number) in EmployeeService class which accepts the employee number and returns an Employee Object

```
import { Injectable } from '@angular/core';
import {Employee} from './employee';
@Injectable()
export class EmployeeService {
empno:number;
employee:Employee;
constructor() { }
employees = [
{empno:1231,empname:'Thangaraj',age:21,salary:12345.11},
{empno:1232,empname:'Sindhu',age:22,salary:34512.22},
{empno:1233,empname:'Snigdha',age:23,salary:12343.33},
{empno:1234,empname:'Bhagya',age:24,salary:12344.44},
{empno:1235,empname:'Bhavya',age:25,salary:12345.55},
{empno:1236,empname:'Pavana',age:26,salary:12346.66},
{empno:1237,empname:'Seema',age:27,salary:12347.77},
{empno:1238,empname:'Karthik',age:28,salary:12348.88},
{empno:1239,empname:'Prashantha',age:29,salary:12349.99},
{empno:1240,empname:'Manoj',age:30,salary:12340.00}
```

```
getEmployees()
return this.employees;
getEmployeeByEmployeeNo(eno:number)
for(let i=0;i<this.employees.length;i++)
if (this.employees[i].empno==eno)
this.employee = this.employees[i];
return this.employee;
                  method accepts
              employee number and
               returns an Employee
                      Object.
```

#### **Setting the routerLink Directive**

In employee-list.component.html, the routerLink directive is configured

```
<div align="center" style="background-color:#AD9820; width:600px;height:640px">
<h1 align="center"> Employees List </h1>
<thead>
<b>Employee No</b>
<b>Employee Name</b>
<b>Employee Age</b>
<b>Employee Salary</b>
</thead>
<a
[routerLink]="['/employees/',employee.empno]">{{employee.empno}}</a>
{{employee.empname}}
{{employee.age}}
{{employee.salary}}
<router-outlet></router-outlet>
<h2 align="center">:::::</h2>
</div>
```

routerLink is configured to accept an additional parameter

router-outlet to display Employee Details. (This routeroutlet is inside employeelist.component.html)

#### **Defining the EmployeeComponent**

```
import { Component, OnInit } from '@angular/core';
import {Employee} from '../employee';
import { EmployeeService } from '../employee.service';
import { ActivatedRoute } from '@angular/router';
@Component({
selector: 'app-employee',
templateUrl: './employee.component.html',
export class EmployeeComponent implements OnInit {
EmpNo:any;
employee:Employee;
constructor(private employeeService:EmployeeService,private route: ActivatedRoute){
ngOnInit()
this.route. paramMap.subscribe(params =>
this.EmpNo = params['empno']; // 'empno' is the same name used while configuring the route in app.module.ts
console.log("Employee No Searched = "+this.EmpNo);
this.employee = this.employeeService.getEmployeeByEmployeeNo(this.EmpNo); // retrieving the product details
```

**Import** ActivatedRoute from @angular/router

> Extracting employee number(parameter) from the URL.

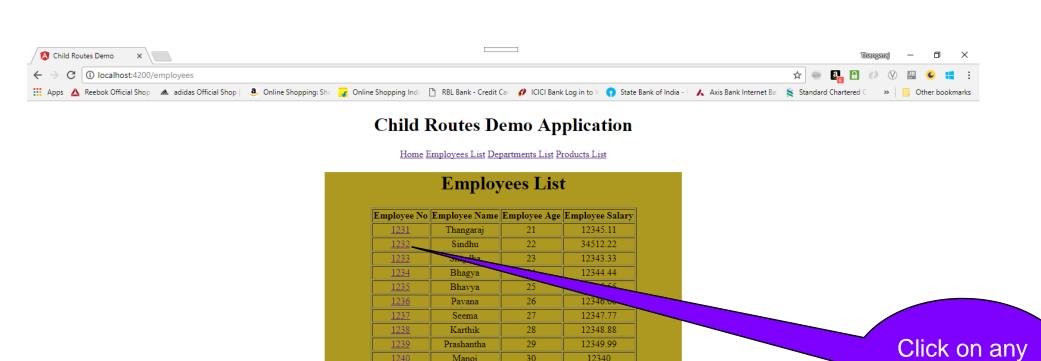
Invoking the getEmployeeByEmployeeNo method from **EmployeeService** 

#### **Defining the EmployeeComponent's view**

```
<div style="background-color:#AD206D;</pre>
                                 width:350px;height:240px">
                                 Employee Age
<h3 align="center">::::Employee Details::::</h3>
                                 {{employee.age}}
<h4 align="center"> Employee Details of Employee No:
                                 {{EmpNo}}</h4>
                                 Employee Salary
<thead>
                                 {{employee.salary}}
<b>Employee
                                 Details</b>
                                 </thead>
                                 </div>
Employee No
{{employee.empno}}
Employee Name
{{employee.empname}}
```



#### **Child Routes Output**



29

30

:::::End of Page::::

Prashantha

Manoj

^ 11:30 AM 11/3/2017 □

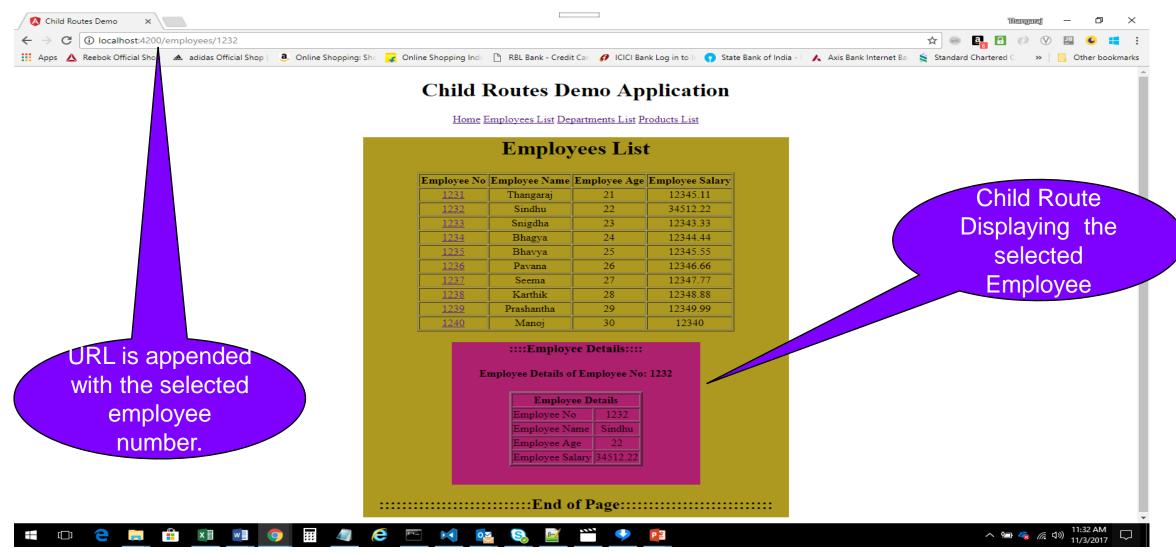
12349.99

12340

employee

number

#### **Child Routes Output**



## **MODULE SUMMARY**

#### Now, you should be able to:

- Add Nested routes
- Demonstrate creating child routes with route params





# **THANK YOU**