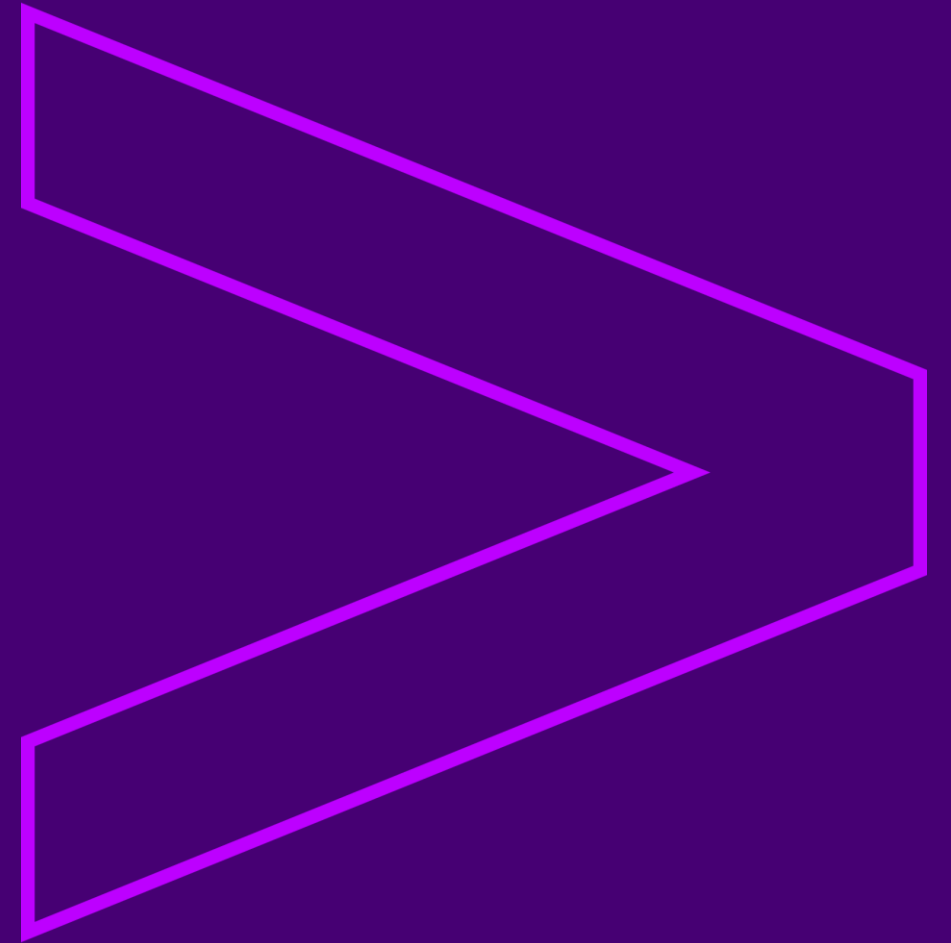


ANGULAR - ROUTE PARAMETERS



MODULE OBJECTIVES

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

- Pass route information to components
- Access Route parameters



AGENDA

- ▶ Passing route information
- ▶ Accessing Route Parameters



Route Parameters

- While navigating in an app, sometimes the route carries information to be used by the component
- Eg. The ProductsList component displays a list of products as hyperlinks. On clicking a product, the id is sent in the URL to another component for displaying its details

<http://localhost:4200/products>

<http://localhost:4200/products/121>

Routing Demo Application

[Home](#) [Employees List](#) [Departments List](#) [Products List](#)

Products List

Product No	Product Name	Product Price
111	IPhone	Rs. 45000
121	IPad	Rs. 34500
131	IPod	Rs. 32222
141	Moto G	Rs. 35678
151	Moto X	Rs. 43434
161	Moto E	Rs. 67676
171	Moto Z	Rs. 23123
181	Samsung Note 3	Rs. 43211
191	Samsung Note 4	Rs. 76433
201	Samsung Note 5	Rs. 37890

Clicked

Routing Demo Application

[Home](#) [Employees List](#) [Departments List](#) [Products List](#)

Product Details of Product No: 121

Product Details	
Product No	121
Product Name	IPad
Manufacturer Name	Apple
Product Price	Rs. 34500

Details of product with id 121 displayed

Adding Route Configuration

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

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

A Component is created to display the selected product details

The products url accepts an additional parameter, 'prodno'

Product Service

- Add another method to the ProductService which fetches the required Product details based on the id.

```
import { Injectable } from '@angular/core';
import { Product } from './Product';
@Injectable()
export class ProductService {
  product: Product;
  constructor() { }
  products = [
    {productno:111,productname:'IPhone',manufacturer:'Apple',price:'Rs. 45000'},
    {productno:121,productname:'IPad',manufacturer:'Apple',price:'Rs. 34500'},
    {productno:131,productname:'IPod',manufacturer:'Apple',price:'Rs. 32222'},
    {productno:141,productname:'Moto G',manufacturer:'Motorola',price:'Rs. 35678'},
    {productno:151,productname:'Moto X',manufacturer:'Motorola',price:'Rs. 43434'},
    {productno:161,productname:'Moto E',manufacturer:'Motorola',price:'Rs. 67676'},
    {productno:171,productname:'Moto Z',manufacturer:'Motorola',price:'Rs. 23123'},
    {productno:181,productname:'Samsung Note 3',manufacturer:'Samsung',price:'Rs. 43211'},
    {productno:191,productname:'Samsung Note 4',manufacturer:'Samsung',price:'Rs. 76433'},
    {productno:201,productname:'Samsung Note 5',manufacturer:'Samsung',price:'Rs. 37890'}
  ];
```

```
getProducts(){
  return this.products;
}
getProductByProductNo(pno:number)
{
  for(let i=0;i<this.products.length;i++)
  {
    if (this.products[i].productno==pno)
    {
      this.product = this.products[i];
      return this.product;
    }
  }
}
```

This method searches for the product and returns the same

ProductComponent

- Angular provides ActivatedRoute interface to get the route information

```
import { Component, OnInit } from '@angular/core';
import { ProductService } from '../product.service';
import { ActivatedRoute } from '@angular/router';
import { Product } from '../product';
@Component({
  selector: 'app-product',
  templateUrl: './product.component.html',
})
export class ProductComponent implements OnInit {
  prodNo:any;
  product:Product;
  constructor(private productService:ProductService,private route: ActivatedRoute){}
  ngOnInit(){
    this.route.paramMap.subscribe(params =>{
      this.prodNo = Number(params['prodno']); // 'prodno' is the same name used while configuring the route in AppRoutingModule
      this.product = this.productService.getProductByProductNo(this.prodNo); // retrieving the product details
    })
  }
}
```

Import ActivatedRoute

Inject ActivatedRoute

Subscribe to the Observable

ProductComponent

```
<div>
<h1 align="center"> Product Details of Product No: {{prodNo}}</h1>

<table align="center" border="2" >
<thead>
<td [colSpan]=2 align="center"><b>Product Details</b></td>
</thead>
<tbody>
<tr>
<td align="left" >Product No</td>
<td align="center">{{product.productno}}</td>
</tr>
<tr>
<td align="left">Product Name</td>
<td align="center">{{product.productname}}</td>
</tr>
<tr>
<td align="left">Manufacturer Name</td>
<td align="center">{{product.manufacturer}}</td>
</tr>
<tr>
<td align="left">Product Price</td>
<td align="center">{{product.price}}</td>
</tr>
</tbody>
</table>>
</div>
```

product.component.html

Setting the routerLink Directive

- The routerLink directive can be bound to an array that contains the path to reach the component and any additional route parameters that gets added to the URL

```
<div align="center">
<h1 align="center"> Products List </h1>
<table align="center" border="solid" >
<thead>
<tr>
<td align="center"><b>Product No</b></td>
<td align="center"><b>Product Name</b></td>
<td align="center"><b>Product Manufacturer</b></td>
<td align="center"><b>Product Price</b></td>
</tr>
</thead>
<tbody>
<tr *ngFor="let product of products">
<td align="center"><a [routerLink]="['/products',product.productno]">{{product.productno}}</a></td>
<td align="center">{{product.productname}}</td>
<td align="center">{{product.manufacturer}}</td>
<td align="center">{{product.price}}</td>
</tr>
</tbody>
</table>
</div>
```

Router link is configured to contain an additional parameter 'productno'

Route Parameters - Output

RoutingDemo1

localhost:4200/products

Routing Parameters Demo Application

[Home](#) [Employees List](#) [Departments List](#) [Products List](#)

Products List

Product No	Product Name	Product Manufacturer	Product Price
111	IPhone	Apple	Rs. 45000
121	IPad	Apple	Rs. 34500
131	IPod	Apple	Rs. 32222
141	Moto	Motorola	Rs. 35678
151	Moto X	Motorola	Rs. 43434
161	Moto E	Motorola	Rs. 67676
171	Moto Z	Motorola	Rs. 23123
181	Samsung Note 3	Samsung	Rs. 32211
191	Samsung Note 4	Samsung	
201	Samsung Note 5	Samsung	Rs.

Clicked

RoutingDemo1

localhost:4200/products/121

Routing Parameters Demo Application

[Home](#) [Employees List](#) [Departments List](#) [Products List](#)

Product Details of Product No: 121

Product Details	
Product No	121
Product Name	IPad
Manufacturer Name	Apple
Product Price	Rs. 34500

Product details of 121 displayed

http://localhost:4200/products/121

MODULE SUMMARY

Now, you should be able to:

- Pass route information to components
- Access Route parameters



QUESTIONS



THANK YOU