# Communicating Using the Router



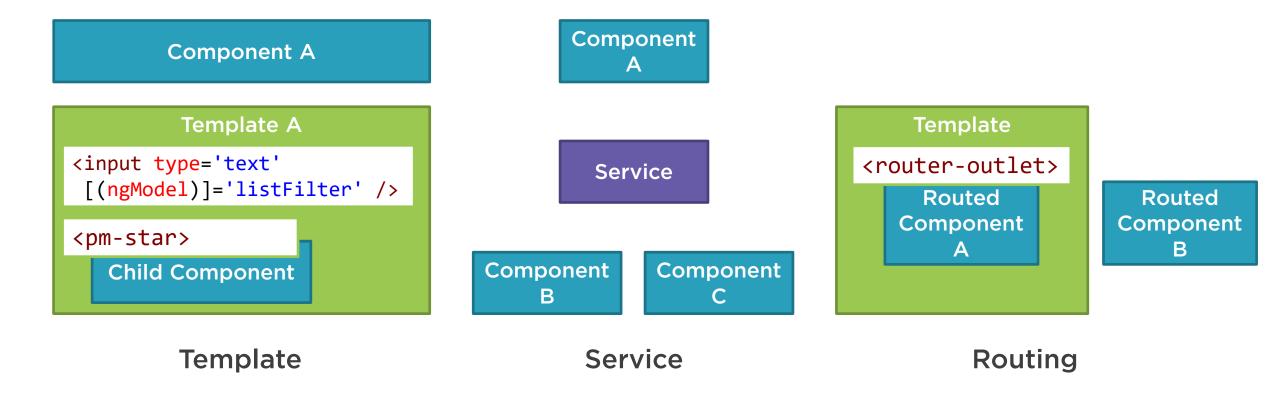
Deborah Kurata
CONSULTANT | SPEAKER | AUTHOR | MVP | GDE
@deborahkurata | blogs.msmvps.com/deborahk/







# Component Communication





# Module Overview

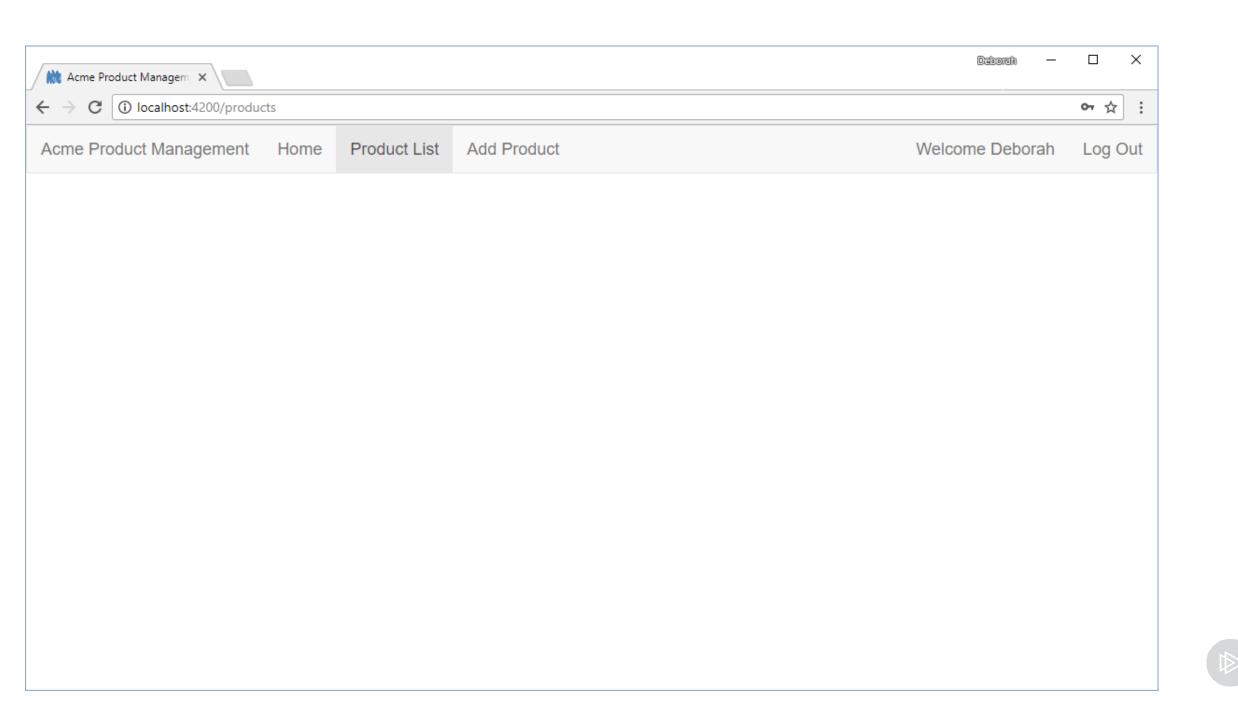


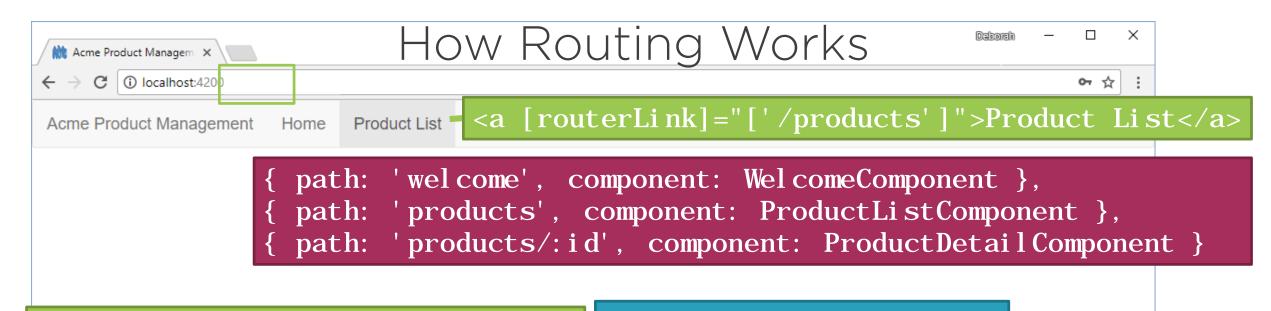
#### **Routing Basics**

#### **Route Parameters**

- Required
- Optional
- Query







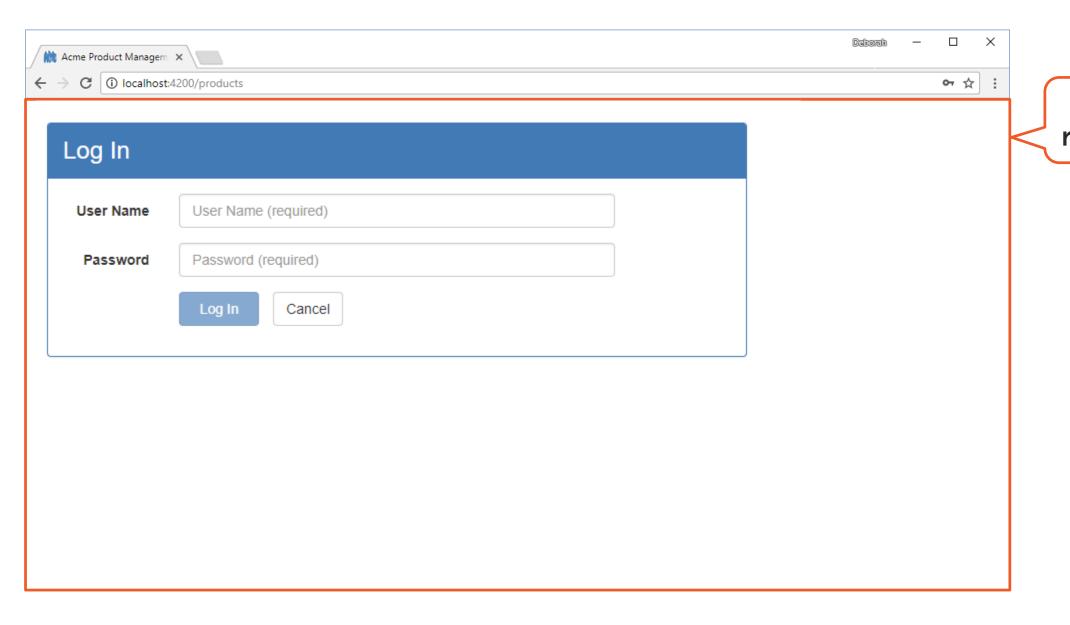
<router-outlet></router-outlet>

```
product-list.component.ts
```

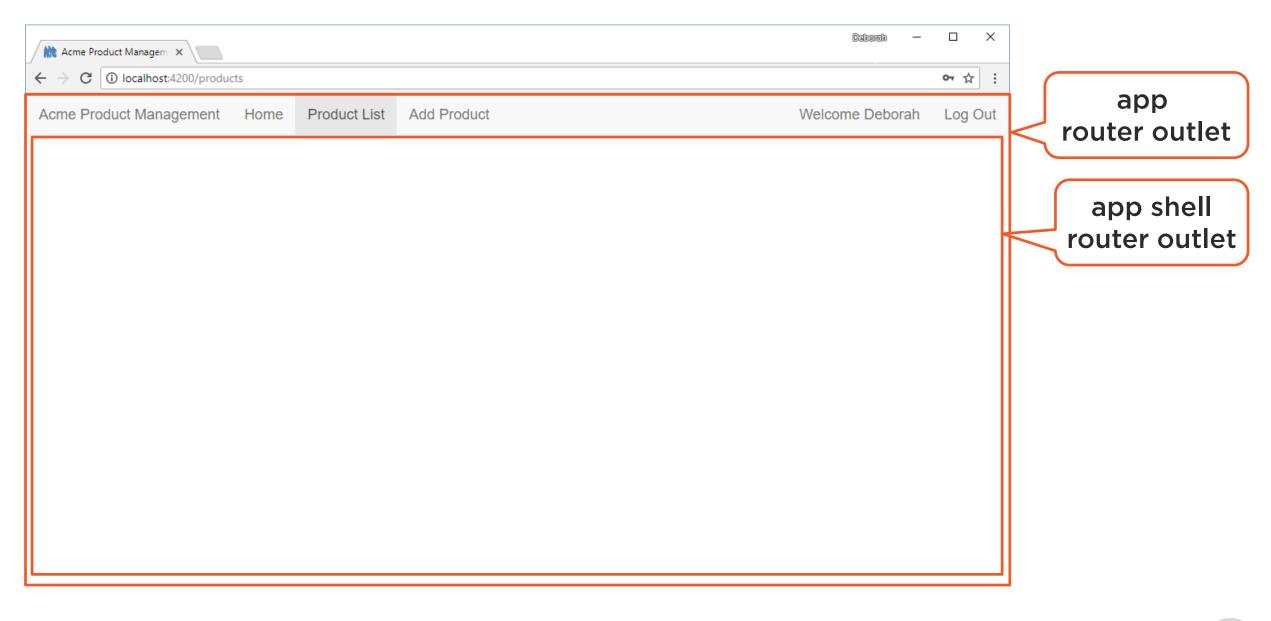
```
import { Component } from '@angular/core';

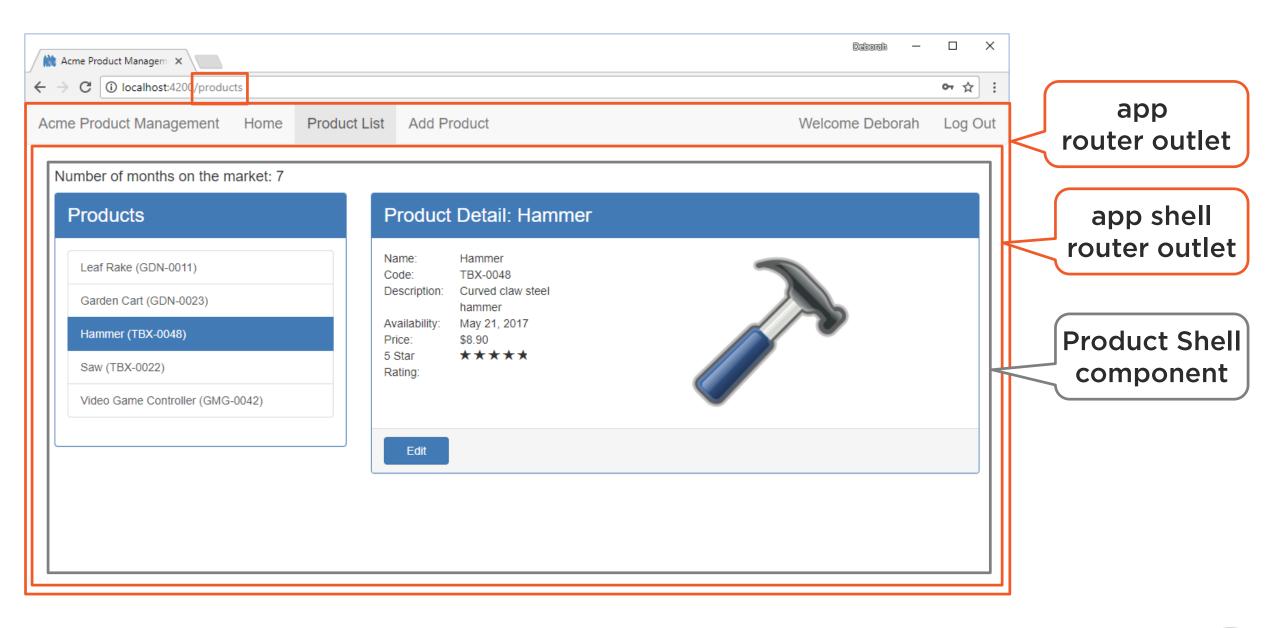
@Component({
   templateUrl: './product-list.component.html'
})
export class ProductListComponent { ... }
```

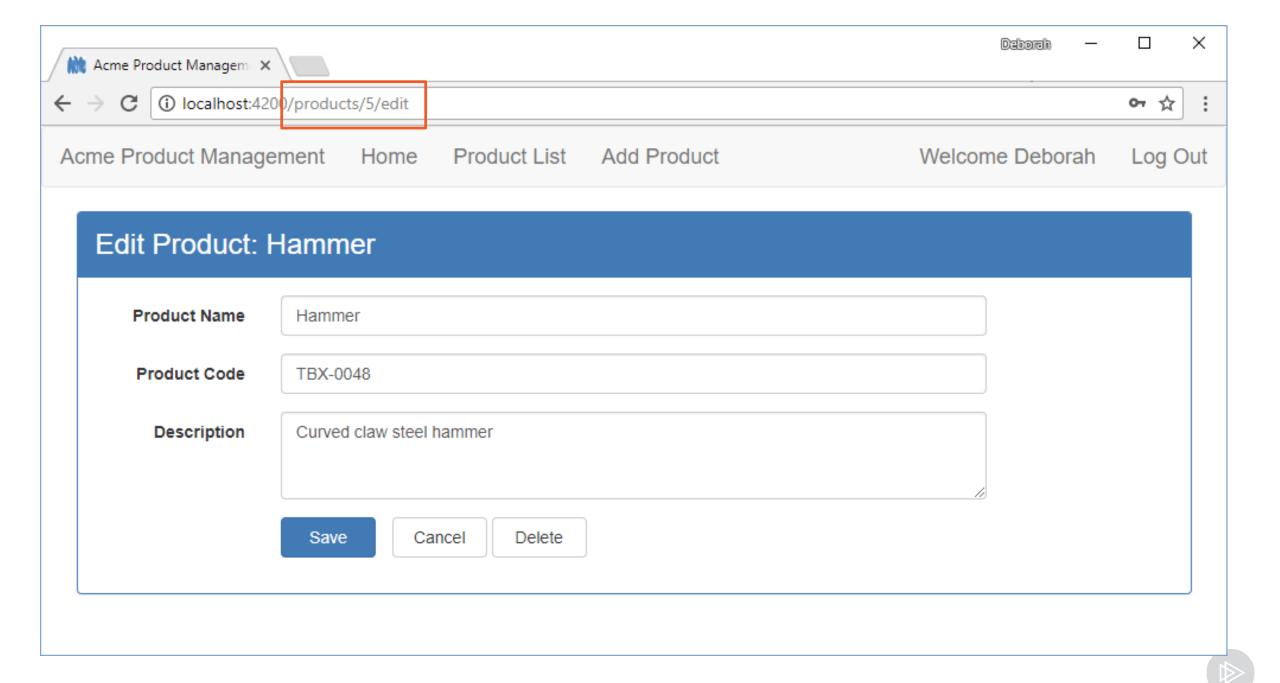




app router outlet



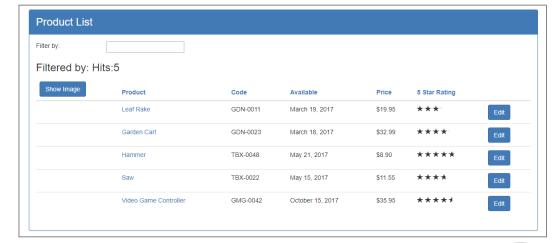




#### product-module.ts

# Products Leaf Rake (GDN-0011) Garden Cart (GDN-0023) Hammer (TBX-0048) Saw (TBX-0022) Video Game Controller (GMG-0042) Product Detail: Hammer Code: TBX-0048 Description: Curved claw steel hammer Availability: May 21, 2017 Price: \$8.90 5 Star \*\*\*\*\* Rating: Edit

#### product-module.ts





# Learning More



#### Pluralsight Angular Course

- "Angular Routing"

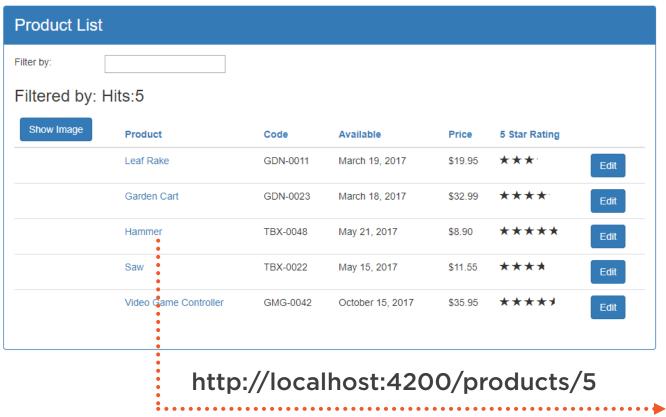
#### Book

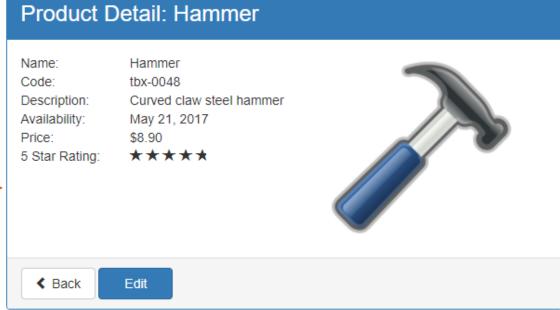
- "Angular Router" by Victor Savkin
  - https://leanpub.com/router





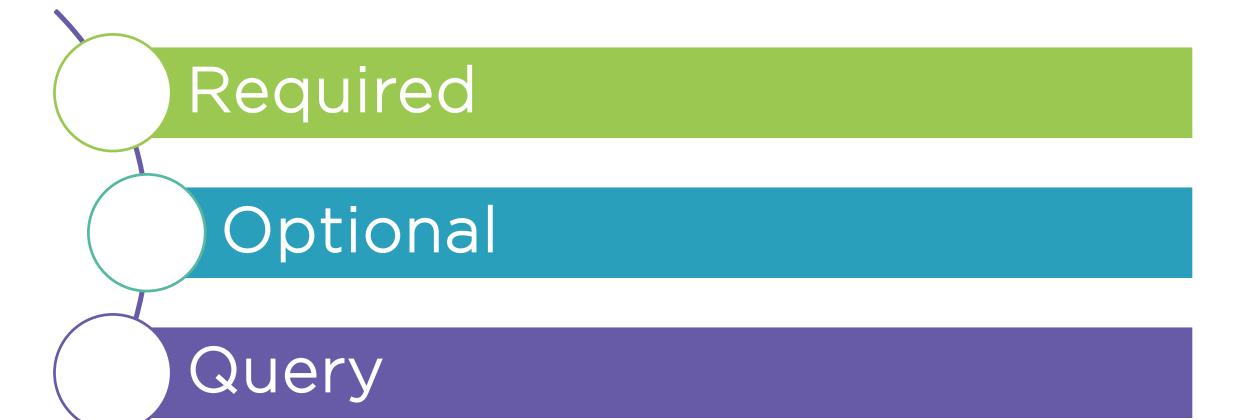
## Route Parameters







## Route Parameters



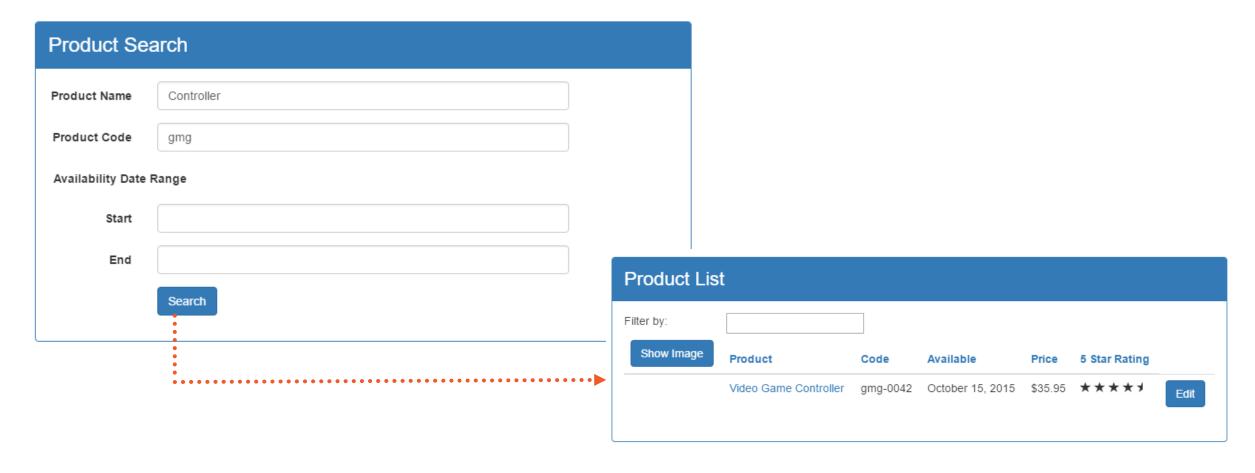


## Required Parameters

```
{ path: 'products/:id', component: ProductDetailComponent }
Activate
<a [routerLink]="['/products', product.id]">...</a>
this.router.navigate(['/products', this.product.id]);
Resulting Url
http://localhost:4200/products/5
Read
this.route.snapshot.paramMap.get('id');
```



# Optional or Query Parameters





## Optional Parameters

```
{ path: 'products', component: ProductListComponent }
Activate
<a [routerLink]="['/products', {name: cart,code: g}]">...</a>
this.router.navigate(['/products'\, {name: 'cart', code:'g'}]);
Resulting Url
http://localhost:4200/products;name=cart;code=g
Read
this.route.snapshot.paramMap.get('name');
```

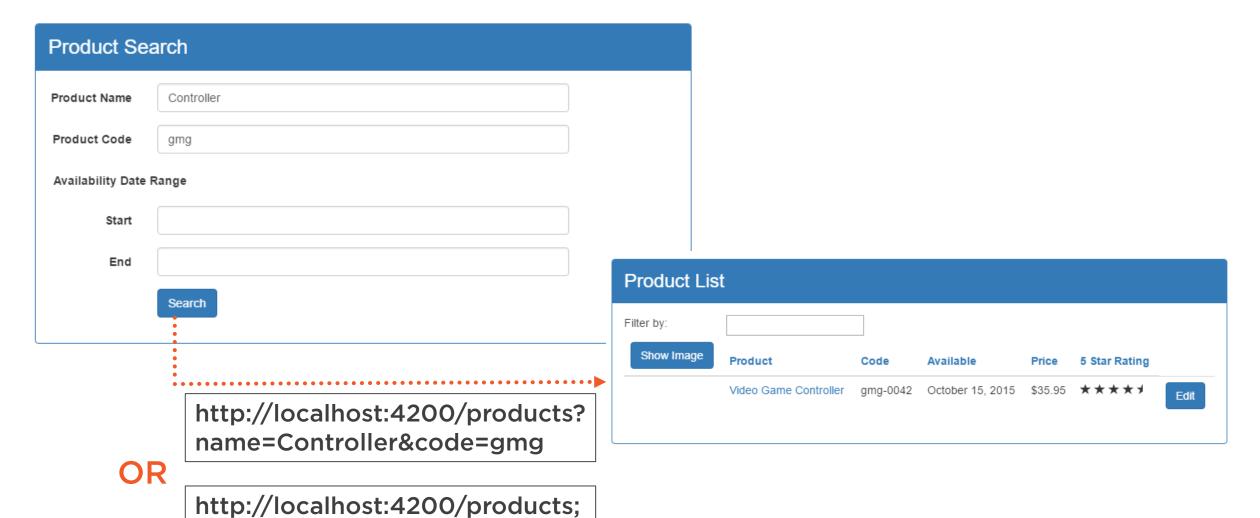


## Query Parameters

```
{ path: 'products', component: ProductListComponent }
Activate
<a [routerLink]="['/products']"
   [queryParams] = "{name: cart, code: g}">...</a>
this.router.navigate(['/products'],
                   {queryParams: {name: 'cart', code:'g'}});
Resulting Url
http://localhost:4200/products?name=cart&code=g
Read
```

this.route.snapshot.queryParamMap.get('name');

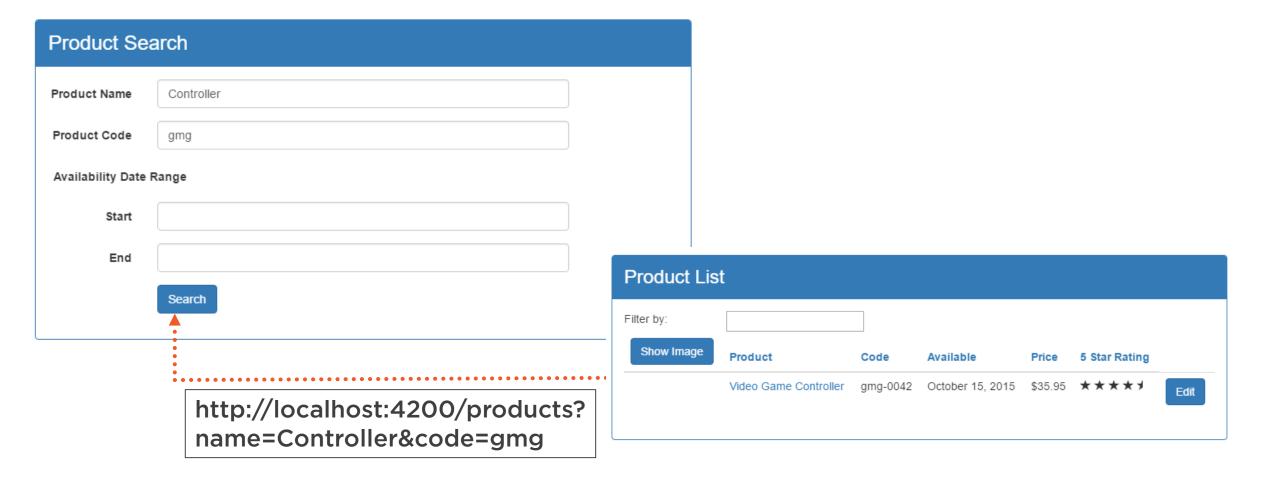
# Query or Optional Parameters



name=Controller;code=gmg



# Query Parameters





## Route Parameters

Required

Optional

Query

"Angular Routing"



# Guidelines & Summary: Communicating Using the Router



## Route Parameters

#### **Benefits:**

- Simple
- Straightforward
- Resulting Urls are bookmarkable and sharable

#### **Considerations:**

- Parameters appear in the Url
- Not good for large amounts of data



## Which Kind to Use?

#### Required parameters:

When the data must be provided to the routed component

#### **Optional parameters:**

When the data is optionally provided to the routed component

#### **Query parameters:**

- When the data is optionally provided to the routed component
- When a query style URL is desired
- When the data should be retained across routes



# Summary



#### **Routing Basics**

#### **Route Parameters**

- Required
- Optional
- Query



# Component Communication

