

### Routing

```
▼ <pm-app>
 ▼ <div>
    <h1>Acme Product Management</h1>
   ▼ <pm-products>
    ▼ <div class="panel panel-primary">
        <div class="panel-heading">
               Product List
           </div>
      ▼ <div class="panel-body">
          ::before
        ▶ <div class="row">...</div>
        ▶ <div class="row">...</div>
        ▼ <div class="table-responsive">
           <!--template bindings={}-->
         ▼
           ▶ <thead>...</thead>
           ▶ ...
           </div>
         ::after
        </div>
      </div>
    </div>
 </pm-app>
```

Configure a route for each component

Define options/actions

Tie a route to each option/action

Activate the route based on user action

Activating a route displays the

component's view



# Module Overview



Setting up

**Configuring Routes** 

**Tying Routes to Actions** 

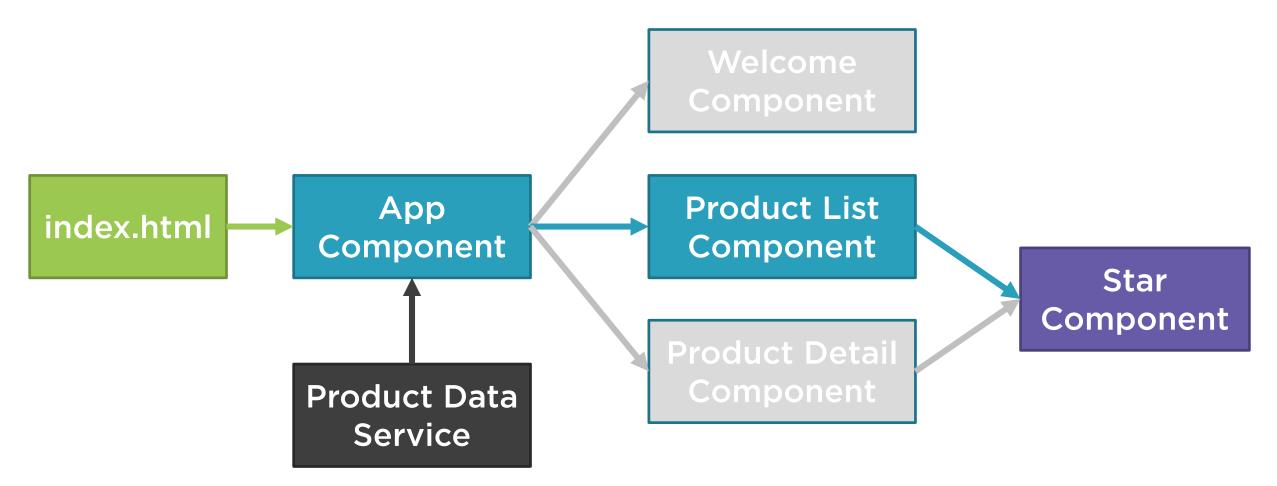
Placing the Views

**Passing Parameters to a Route** 

**Activating a Route with Code** 



### Application Architecture





# Setting Up



Include the Angular 2 router script

Define the base element

Register ROUTER\_PROVIDERS





### Configuring Routes

#### app.component.ts (host component)

### Navigating the Application Routes



Menu option, link, image or button that activates a route

Typing the Url in the address bar / bookmark

The browser's forward or back buttons



# Tying Routes to Actions





### Tying Routes to Actions

```
import { ROUTER_PROVIDERS } from 'angular2/router';
@Component({
   selector: 'pm-app',
   template:
   <a>Home</a>
     <a>Product List</a>
    providers: [ROUTER_PROVIDERS]
})
```

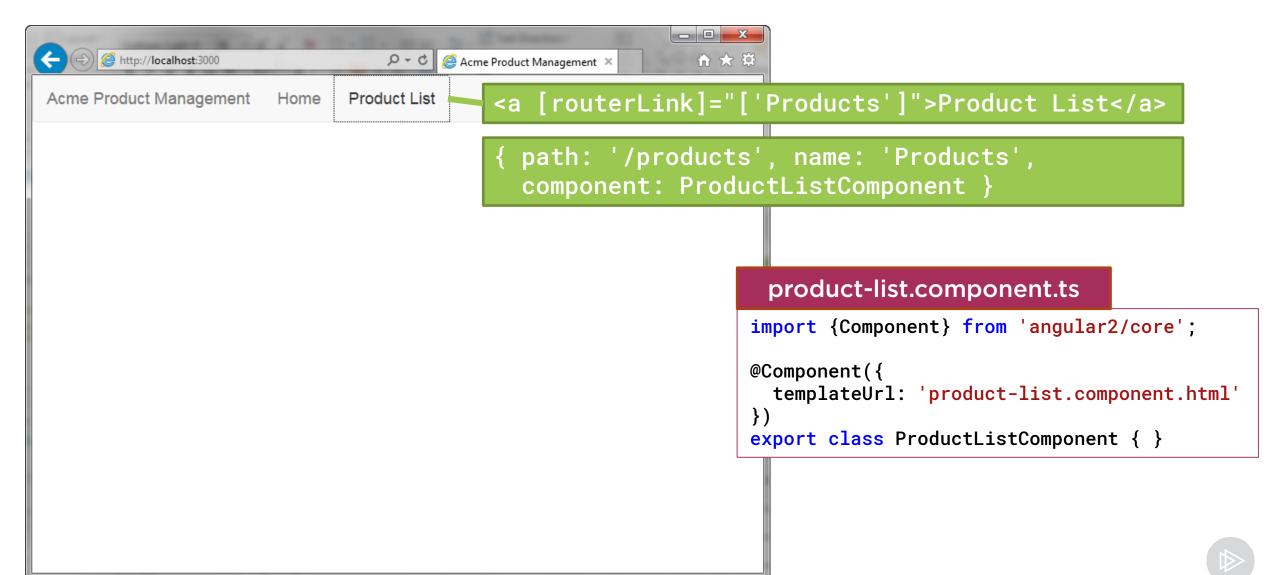
### Tying Routes to Actions

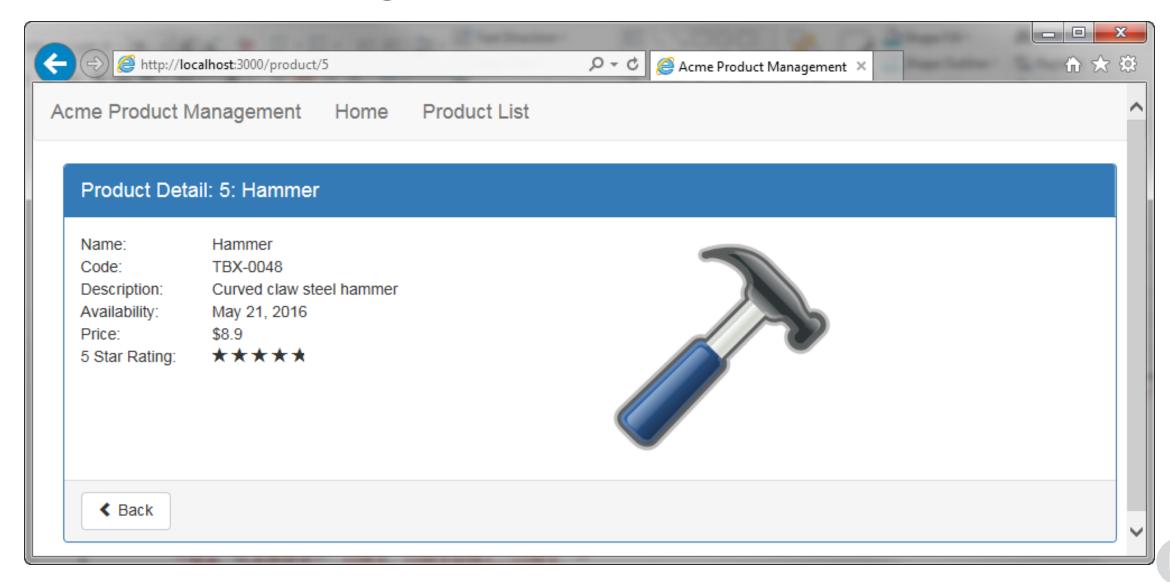
```
import { ROUTER_PROVIDERS, ROUTER_DIRECTIVES } from 'angular2/router';
@Component({
   selector: 'pm-app',
   template:
    <a [routerLink]="['Welcome']">Home</a>
      <a [routerLink]="['Products']">Product List</a>
    directives: [ROUTER_DIRECTIVES],
   providers: [ROUTER_PROVIDERS]
})
```

### Placing the Views

```
import { ROUTER_PROVIDERS, ROUTER_DIRECTIVES } from 'angular2/router';
@Component({
   selector: 'pm-app',
   template:
    <a [routerLink]="['Welcome']">Home</a>
      <a [routerLink]="['Products']">Product List</a>
    <router-outlet></router-outlet>
   directives: [ROUTER_DIRECTIVES],
   providers: [ROUTER_PROVIDERS]
})
```

### How Routing Works





```
import { RouteConfig } from 'angular2/router';
import { WelcomeComponent } from 'welcome.component';
import { ProductListComponent } from 'product-list.component';
@RouteConfig([
  { path: '/welcome', name: 'Welcome', component: WelcomeComponent,
                                                    useAsDefault: true },
  { path: '/products', name: 'Products', component: ProductListComponent },
  { path: '/product/:id', name: 'ProductDetail',
                                      component: ProductDetailComponent }
```

#### product-list.component.html



#### product-detail.component.ts

```
import { RouteParams } from 'angular2/router';

constructor(private _routeParams: RouteParams) {
    console.log(this._routeParams.get('id'));
}
```

### Activating a Route with Code

#### product-detail.component.ts

```
import { Router} from 'angular2/router';

constructor(private _router: Router) { }

onBack(): void {
   this._router.navigate(['Products']);
}
```

# Checklist: Displaying Components



#### **Nest-able Components**

- Define a selector
- Nest in another component
- No route

#### **Routed Components**

- No selector
- Configured route
- User actions to activate the route

### Routing Checklist: Setup



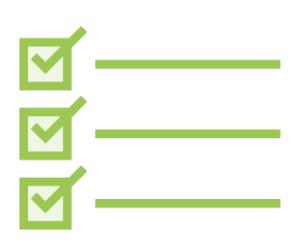
Include the Angular 2 router script

Define the base element

Register ROUTER\_PROVIDERS



# Routing Checklist: Configuring Routes



#### path

- Url path segment for route

#### name

- Route name
- PascalCase

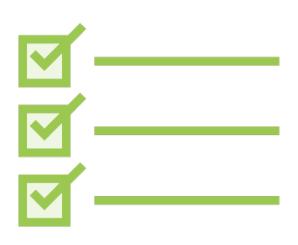
#### component

- Not string name; not enclosed in quotes
- Each component must be imported

#### useAsDefault



# Routing Checklist: Tying Routes to Actions



# Specify ROUTER\_DIRECTIVES in the directives array

# Add the RouterLink directive as an attribute

- Clickable element
- Enclose in square brackets

#### Bind to a link parameters array

- First element is the route name
- All other elements are route parameters



### Routing Checklist: Place the View



**RouterOutlet** 

Identifies where to display the routed component's view

Specified in the host component's template



# Routing Checklist: Passing Parameters

#### app.component.ts

#### product-list.component.html

```
<a [routerLink]="['ProductDetail',{id: product.productId}]">
     {{product.productName}}
</a>
```

#### product-detail.component.ts

```
import { RouteParams } from 'angular2/router';
constructor(private _routeParams: RouteParams) {
   console.log(this._routeParams.get('id'));
}
```

# Routing Checklist: Activate a Route with Code



#### Use the Router service

- Import the service
- Define it as a dependency

# Create a method that calls the navigate method of the Router service

- Pass in the link parameters

#### Add a user interface element

Use event binding to bind to the created method



### Summary



Setting up

**Configuring Routes** 

**Tying Routes to Actions** 

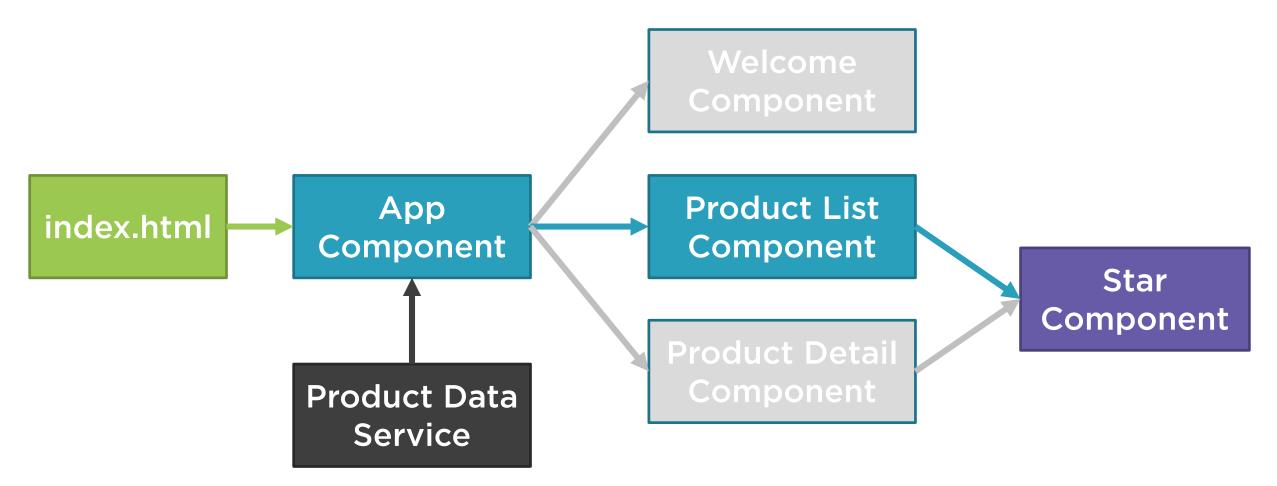
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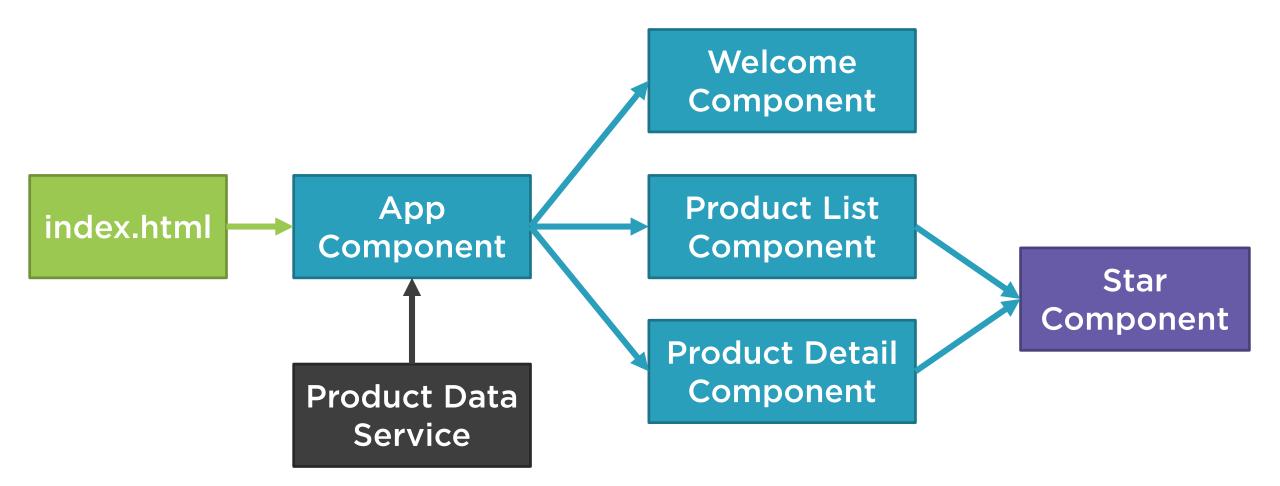


### Application Architecture





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# Up Next



