Reactive Form in Context



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Module Overview

Sample Application

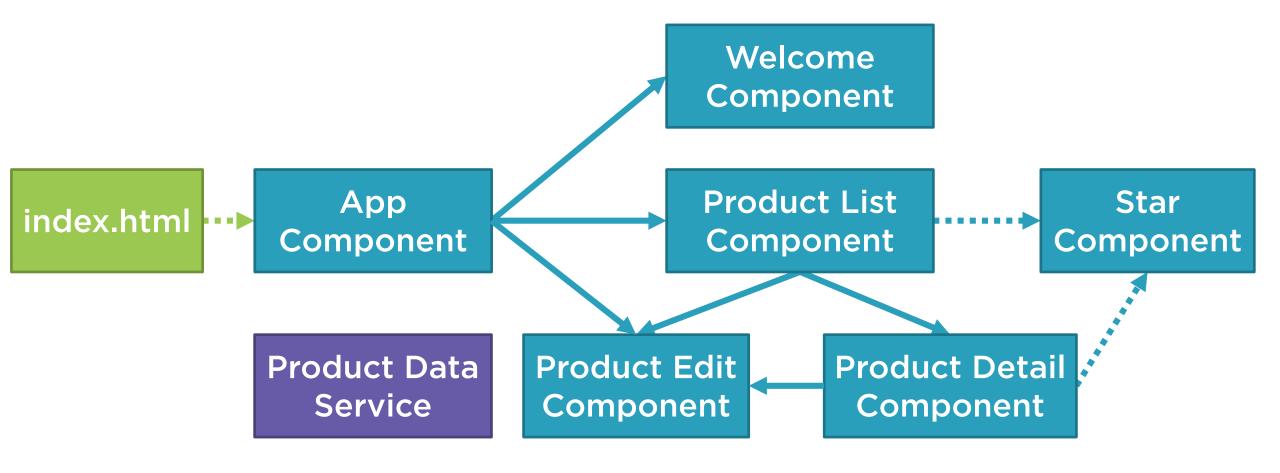
Routing to the Form

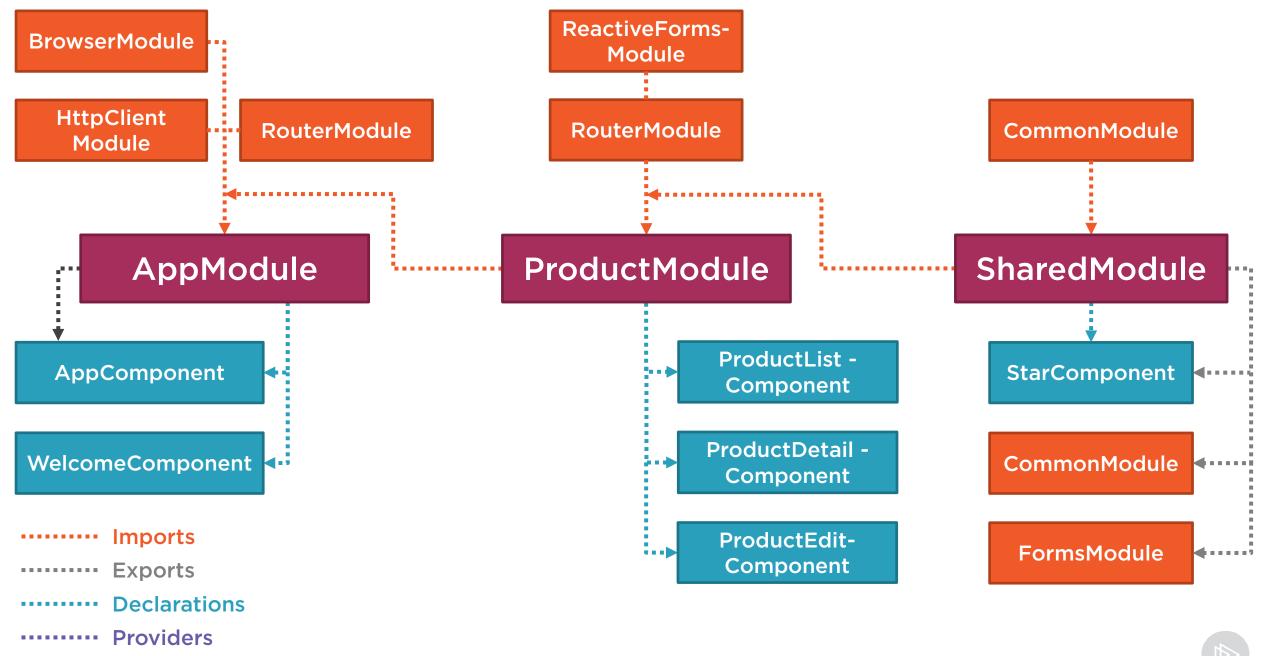
Reading a Route Parameter

Setting a canDeactivate Guard

Refactoring to a Custom Validation Class

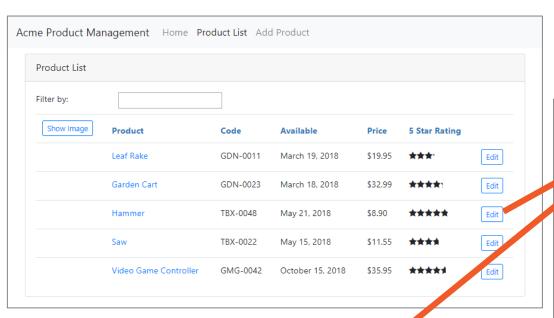
APM Sample Application Architecture

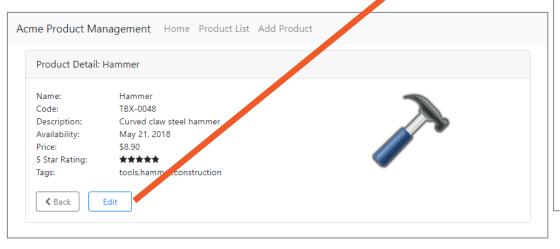


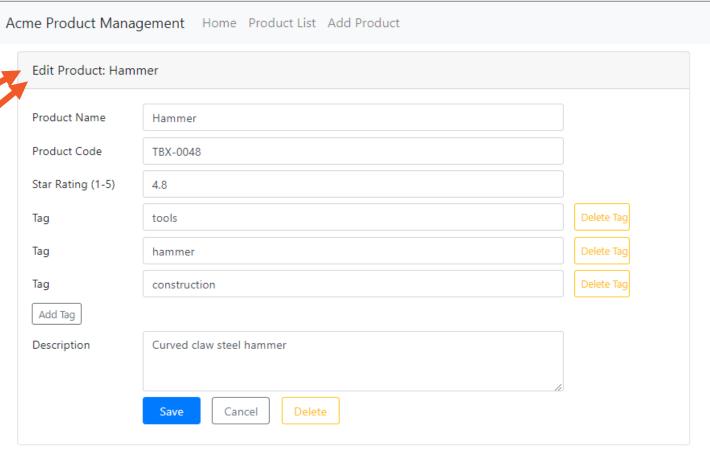


Bootstrap



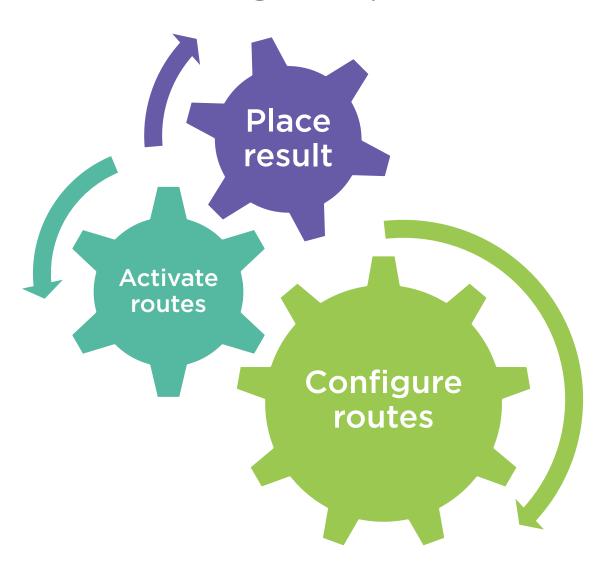








Routing Steps



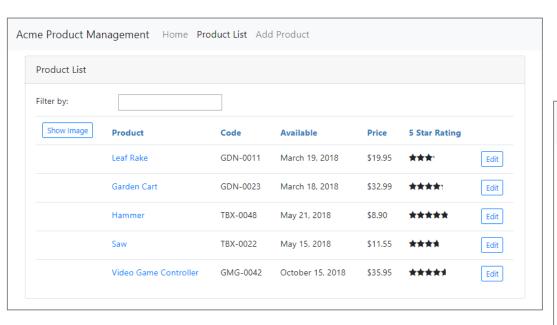


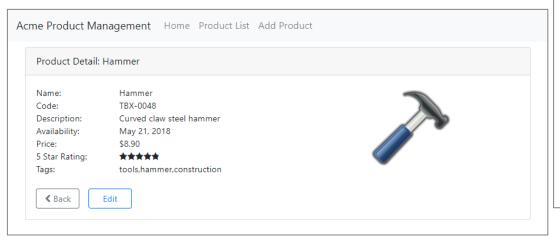
Configuring Routes

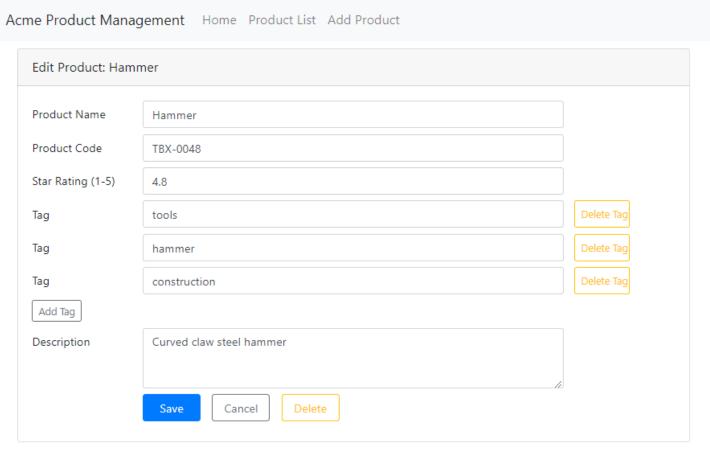


Route Guards

```
{ path: 'products', component: ProductListComponent },
{ path: 'products/:id',
 canActivate: [ ProductDetailGuard ],
 component: ProductDetailComponent },
{ path: 'products/:id/edit',
 canDeactivate: [ ProductEditGuard ],
 component: ProductEditComponent }
```









Tying Routes to Actions

app.component.ts

```
@Component({
   selector: 'pm-root',
   template:
    <a [routerLink]="['/welcome']">Home</a>
     <a [routerLink]="['/products']">Product List</a>
     <a [routerLink]="['/products', '0', 'edit']">
        Add Product</a>
     })
```

Placing the Views

app.component.ts

```
@Component({
   selector: 'pm-root',
   template:
    <a [routerLink]="['/welcome']">Home</a>
     <a [routerLink]="['/products']">Product List</a>
     <a [routerLink]="['/products', '0', 'edit']">
         Add Product</a>
     <router-outlet></router-outlet>
```

Reading Parameters from a Route

```
{ path: 'products/:id/edit', component: ProductEditComponent }

import { ActivatedRoute } from '@angular/router';

constructor(private route: ActivatedRoute) {
    let id = +this.route.snapshot.paramMap.get('id');
    ...
}
constructor(private route: ActivatedRoute) {
```

```
constructor(private route: ActivatedRoute) {
   this.sub = this.route.paramMap.subscribe(
     params => {
        const id = +params.get('id');
        ...
   }
   );
}
```

Building a Guard

product-edit.guard.ts

```
import { Injectable } from '@angular/core';
import { CanDeactivate } from '@angular/router';
@Injectable({
 providedIn: 'root'
export class ProductEditGuard
          implements CanDeactivate<ProductEditComponent> {
   canDeactivate(component: ProductEditComponent): boolean {
```

Custom Validator with Parameters

```
function range(min:number, max:number): ValidatorFn {
   return (c: AbstractControl): {[key: string]: boolean} | null => {
    if (c.value < min || c.value > max) {
       return { 'range': true };
    }
   return null;
}
```

Checklist: Reactive Form in Context



Add a route configuration

Add user interface element(s) to activate the route

Read the route parameter

Set up a canDeactivate guard

Refactor validators to a custom validation class for reuse



Summary

Sample Application

Routing to the Form

Reading a Route Parameter

Setting a canDeactivate Guard

Refactoring to a Custom Validation Class