Angular

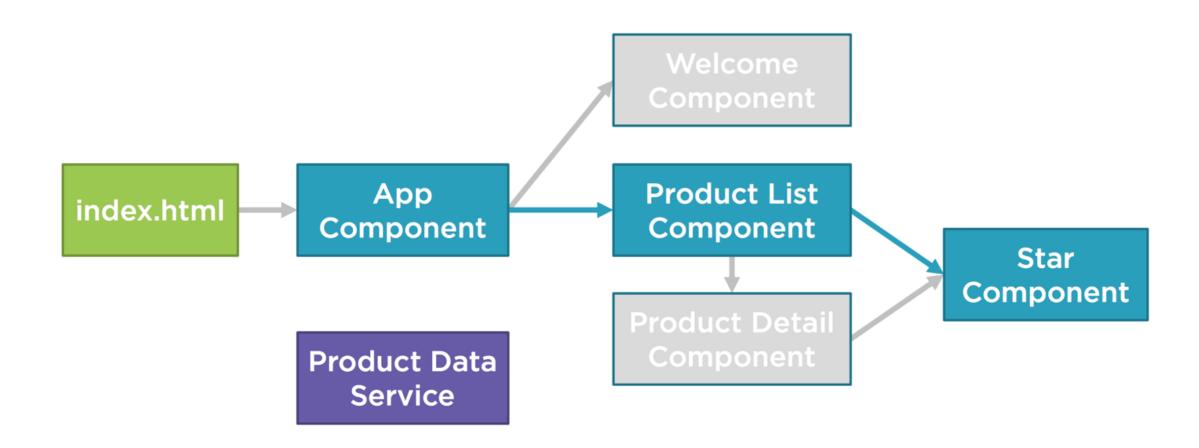
Navigation and routing basics



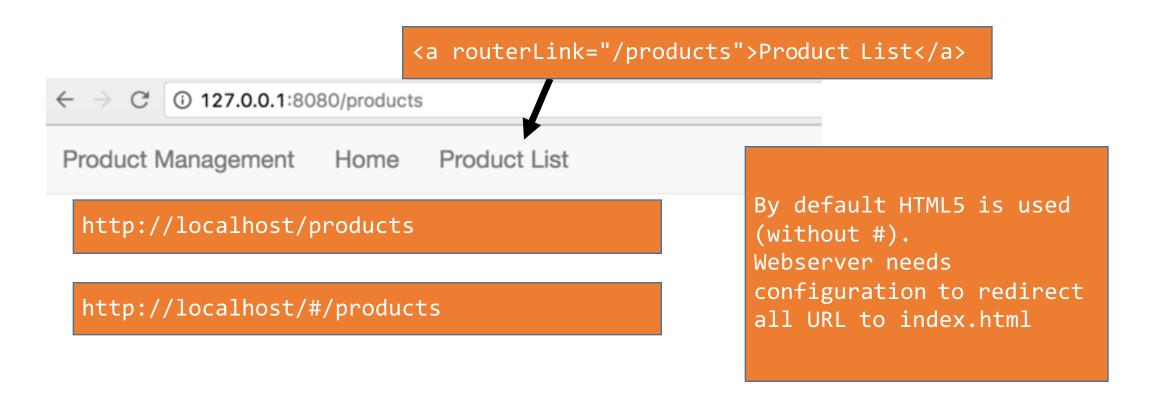
Module Overview

- How does Routing Work?
- Configuring Routes
- Tying routes to actions
- Placing the Views

Application Architecture







```
// product-list.components.ts

import { Component } from '@angular/core';
@Component({
    selector: 'nat-products',
    templateUrl: 'app/products/product-
list.component.html'
})
export class ProductListComponent {}
```

<router-outlet></router-outlet>

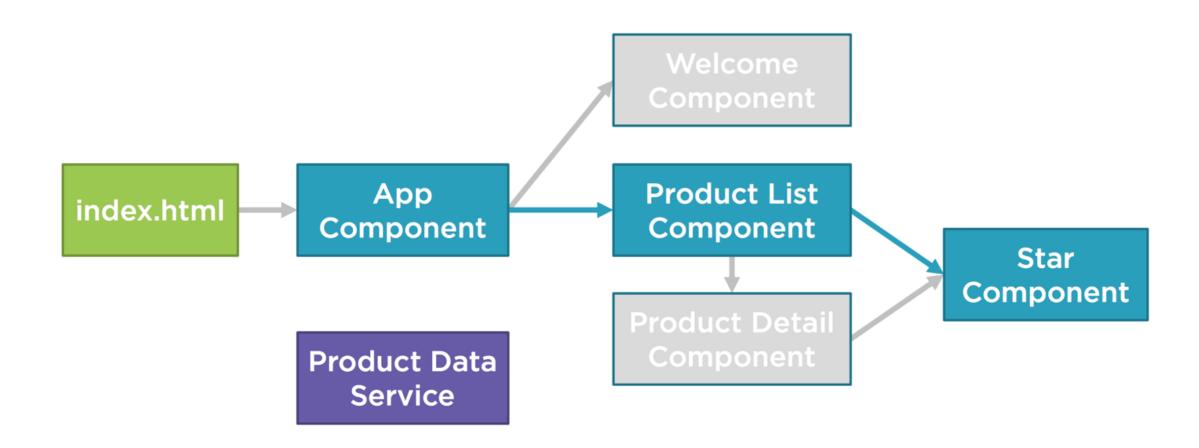
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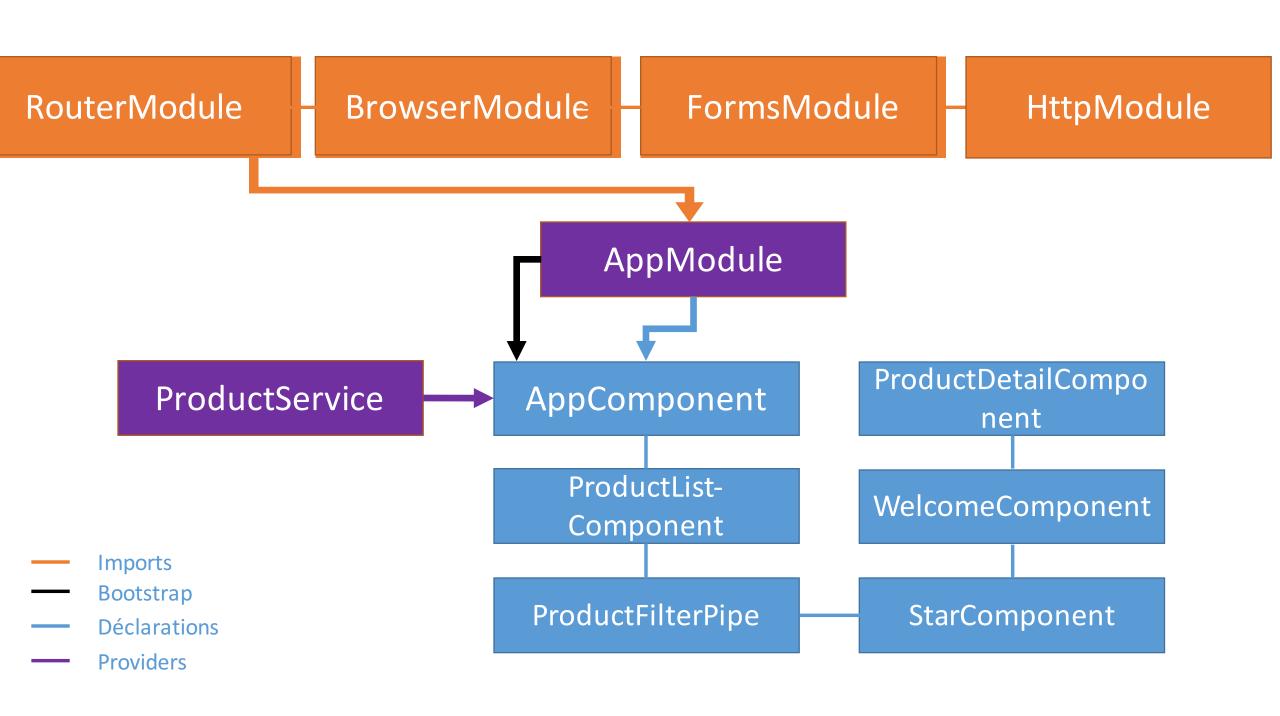
import { Component } from '@angular/core';
@Component({
   templateUrl: 'app/products/product-list.component.html'
})
export class ProductListComponent {}
```

| ← → ♂ ③ 127.0.0.1:8080/products | | | |
|---------------------------------|------|--------------|--|
| Product Management | Home | Product List | |
| | | | |

| Product List | |
|--------------|---------|
| Filter by: | |
| Show Image | Product |

Application Architecture





Routes into our application

- 'products' => ProductComponent
 '' => ProductListComponent
 - o ':id' => ProductDetailComponent
- 'welcome' → WelcomeComponent

```
app.module.ts
import { RouterModule } from '@angular/router';
@NgModule({
  imports: [
    BrowserModule,
    FormsModule,
    HttpModule,
    RouterModule
  declarations: [
  bootstrap: [ AppComponent ]
export class AppModule {}
```

```
app.module.ts
import { RouterModule } from '@angular/router';
@NgModule({
  imports: [
    BrowserModule,
    FormsModule,
    HttpModule,
    RouterModule.forRoot([])
  declarations: [
  bootstrap: [ AppComponent ]
export class AppModule {}
```

```
app.module.ts
import { RouterModule } from '@angular/router';
@NgModule({
  imports: [
    BrowserModule,
    FormsModule,
    HttpModule,
    RouterModule.forRoot([], {useHash: true})
  declarations: [
  bootstrap: [ AppComponent ]
})
export class AppModule {}
```

```
{ path: 'products', children: [
   {path: '', component: ProductListComponent },
   {path: ':id', component: ProductDetailComponent}
  path: 'welcome', component: WelcomeComponent },
  path: '', redirectTo: 'welcome', pathMatch: 'full' },
{ path: '**', component: PageNotFoundComponent }
```

- No leading slash in the path '/'
- Order matter, it's an array

Navigating the applications 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

Product Management Home Product List

Hey

Tying Routes to Actions

```
@Component({
    selector: 'nat-app',
    template:`

        <a>Home</a>
        <a>Product List</a>

    })
```

Tying Routes to Actions

```
@Component({
    selector: 'nat-app',
    template:`

        <a routerLink="/welcome">Home</a>
        <a routerLink="/products">Product List</a>
```

Placing the Views

Checklist: Displaying Components

- ✓ Nest-able components
 - ✓ Define a selector
 - ✓ Next in another component
 - ✓ No route
- ✓ Routed components
 - ✓ No selector
 - ✓ Configure routes
 - ✓ Tie routes to actions

Checklist: Doing Routing

- ✓ Configure routes
- ✓ Tie routes to actions
- ✓ Place the view

Checklist: Configuring Routes

- ✓ Define the base element
- ✓ Add RouterModule
 - ✓ Add each route (RouterModule.forRoot)
 - ✓ Order matters
- ✓ path: Url segment for the route
 - ✓ No leading slash
 - √ " for default route
 - √ '**' for wildcard route
- ✓ component
 - ✓ not string name, not enclosed in quotes

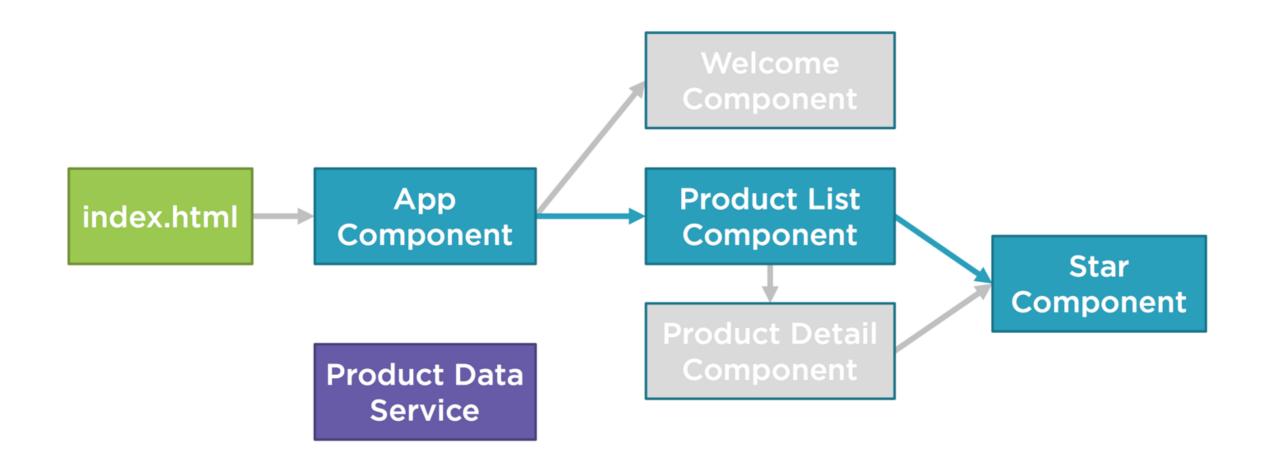
Checklist: Tying Routes to Actions

- ✓ Add the Routerlink Directive as an attribute
 - ✓ Clickable element
 - ✓ Enclose in square brackets
- ✓ Bind to a link parameters array
 - ✓ First element is the path
 - ✓ All other elements are route parameters

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Application Architecture



Application Architecture

