

# Child Routes

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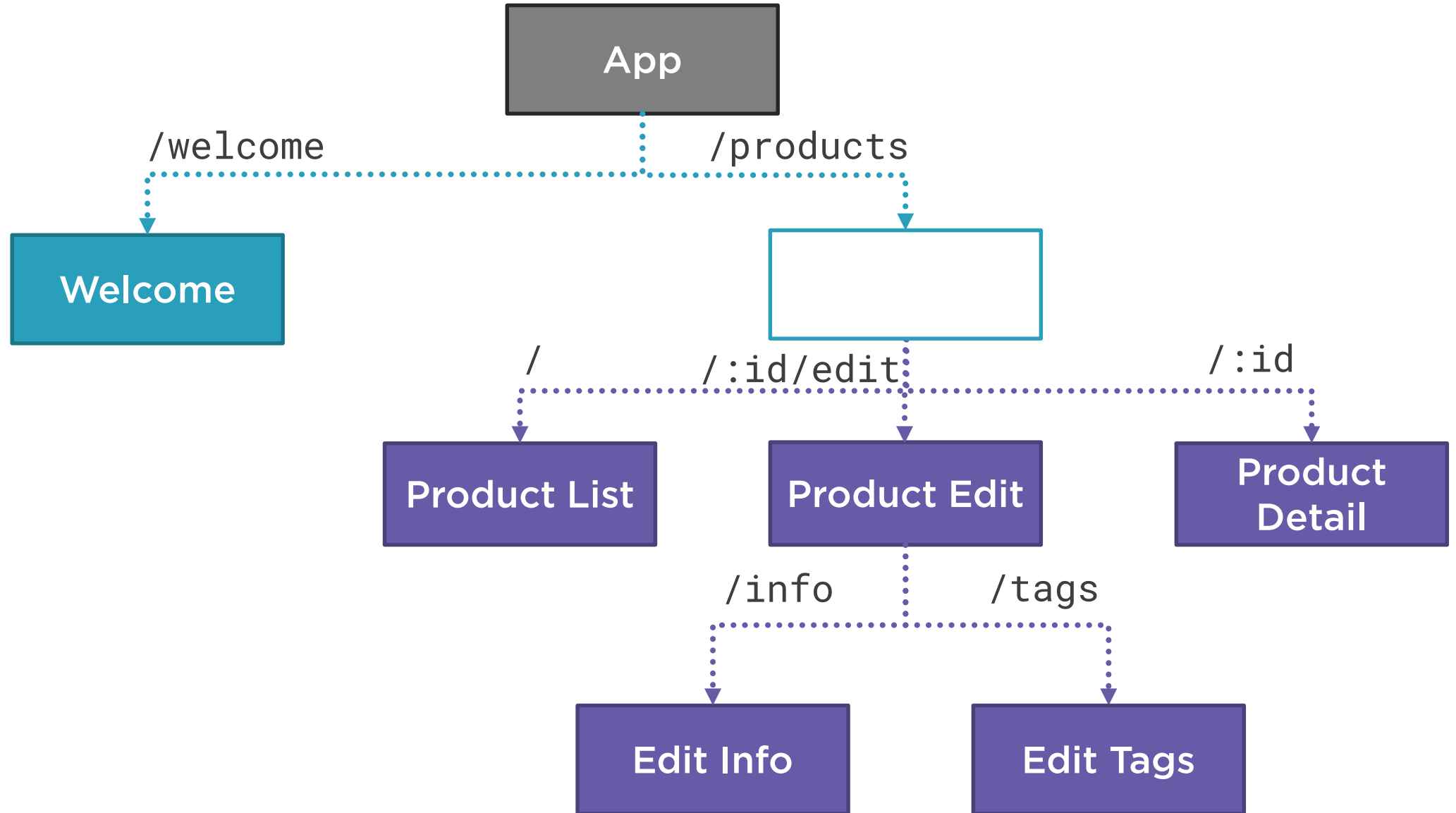


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# Module Overview



**Using Child Routes**

**Configuring Child Routes**

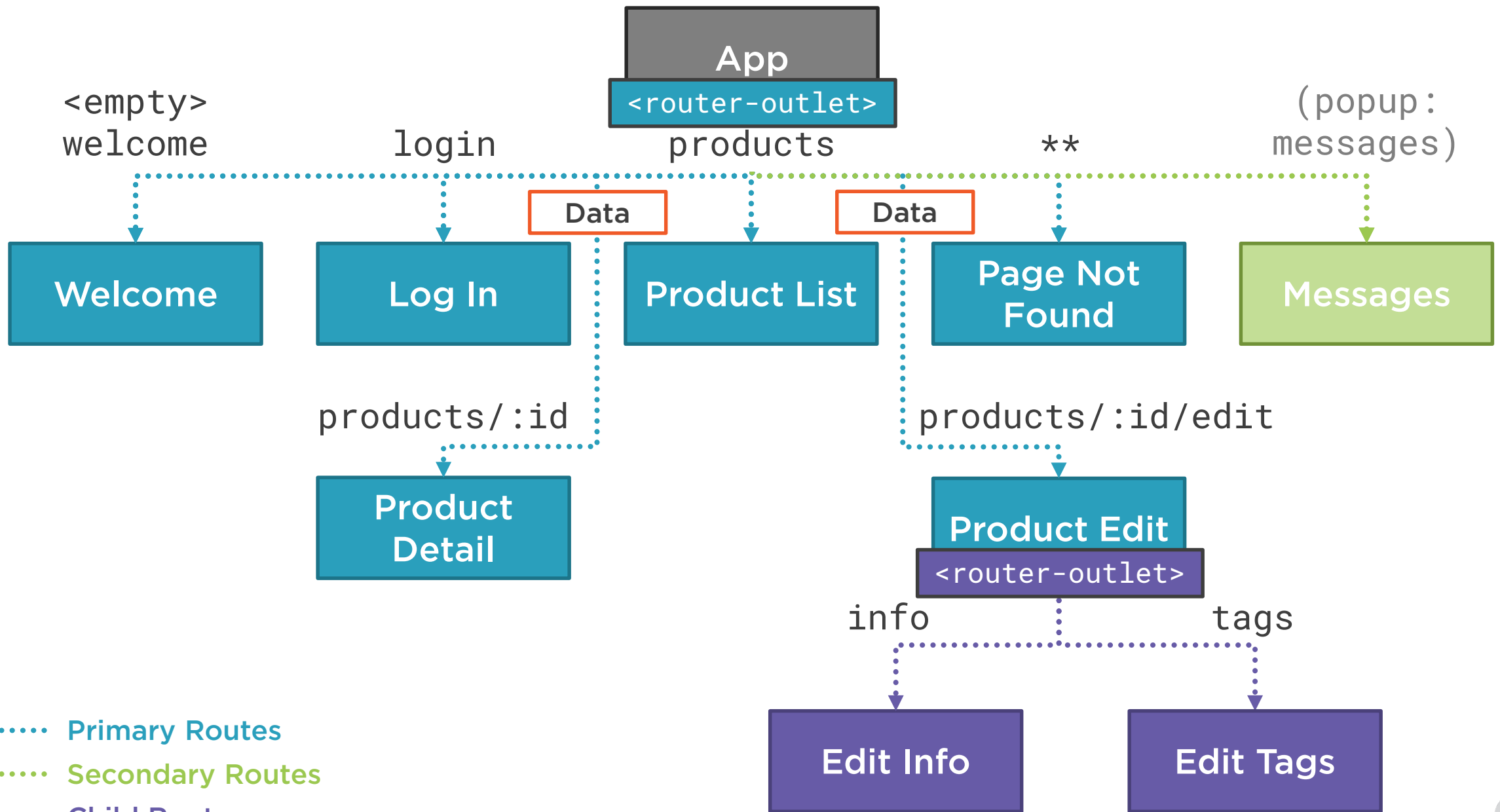
**Placing the Child View**

**Activating Child Routes**

**Obtaining Data for Child Routes**

**Validating Across Child Routes**





# Primary Router Outlet

app.component.html

```
<div>
  <nav class="navbar navbar-default">
    <div class="container-fluid">
      <a class="navbar-brand">{{pageTitle}}</a>
      <ul class="nav navbar-nav">
        <li><a [routerLink]="['/welcome']">Home</a></li>
        <li><a [routerLink]="['/products']">Product List</a></li>
        <li><a [routerLink]="['/products', 0, 'edit']">Add Product</a></li>
      </ul>
      ...
    </div>
  </nav>
  <div class="container">
    <router-outlet></router-outlet>
  </div>
</div>
```



```
<router-outlet>
```

## Product List

Filter by:

[Show Image](#)

Product	Code	Available	Price	5 Star Rating	
Leaf Rake	gdn-0011	March 19, 2016	\$19.95	★ ★ ★	<a href="#">Edit</a>
Garden Cart	gdn-0023	March 18, 2016	\$32.99	★ ★ ★ ★	<a href="#">Edit</a>
Hammer	tbx-0048	May 21, 2016	\$8.90	★ ★ ★ ★ ★	<a href="#">Edit</a>
Saw	tbx-0022	May 15, 2016	\$11.55	★ ★ ★ ★	<a href="#">Edit</a>
Video Game Controller	gmg-0042	October 15, 2015	\$35.95	★ ★ ★ ★ ★	<a href="#">Edit</a>

```
</router-outlet>
```

```
<router-outlet>
```

## Edit Product: Hammer

**Product Name****Product Code****Description**

```
</router-outlet>
```

```
<router-outlet>
```

## Edit Product: Hammer

Basic Information

Search Tags

```
<router-outlet></router-outlet>
```

Save

Cancel

Delete

```
</router-outlet>
```



```
<router-outlet>
```

## Edit Product: Hammer

**Basic Information**

Search Tags

```
<router-outlet>
```

### Basic Product Information

**Product  
Name**

Hammer

**Product Code**

TBX-0048

**Description**

Curved claw steel hammer

```
</router-outlet>
```

Save

Cancel

Delete

```
</router-outlet>
```

# Child Routes



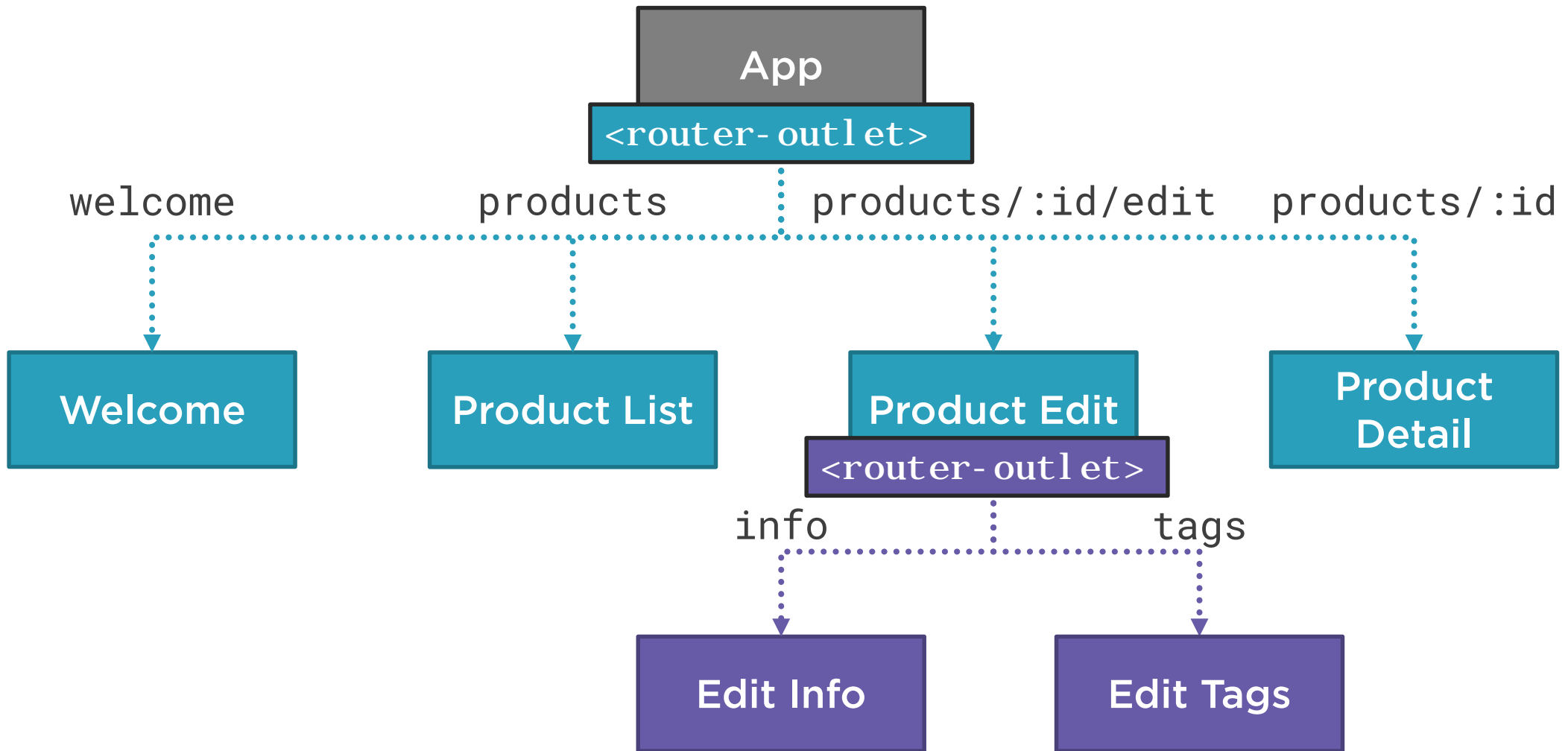
**Tabbed pages**

**Master/detail layouts**

**Embedded templates**

**Feature modules**

**Lazy loading**



# Configuring Child Routes

## Angular Module

```
{
  path: 'products/:id/edit',
  component: ProductEditComponent,
  resolve: { product: ProductResolver },
  children: [
    {
      path: '', redirectTo: 'info', pathMatch: 'full'
    },
    {
      path: 'info', component: ProductEditInfoComponent
    },
    {
      path: 'tags', component: ProductEditTagsComponent
    }
  ]
}
```



# Placing the Child View

product-edit.component.html

```
<div class="panel-body">
  <div class="wizard">
    <a [routerLink]="['info']">
      Basic Information
    </a>
    <a [routerLink]="['tags']">
      Search Tags
    </a>
  </div>

  <router-outlet></router-outlet>
</div>
```



# Activating Child Routes

## Template

```
// Absolute path
<a [routerLink]="['/products', product.id, 'edit', 'info']">Info</a>

// Relative path
<a [routerLink]="['info']">Info</a>
```

## Component Class

```
// Absolute path
this.router.navigate(['/products', this.product.id, 'edit', 'info']);

// Relative path
this.router.navigate(['info'], { relativeTo: this.route });
```



# Obtaining Data for a Child Route

## Product Data Service

```
this.productService.getProduct(id)  
    .subscribe(product => this.product = product);
```

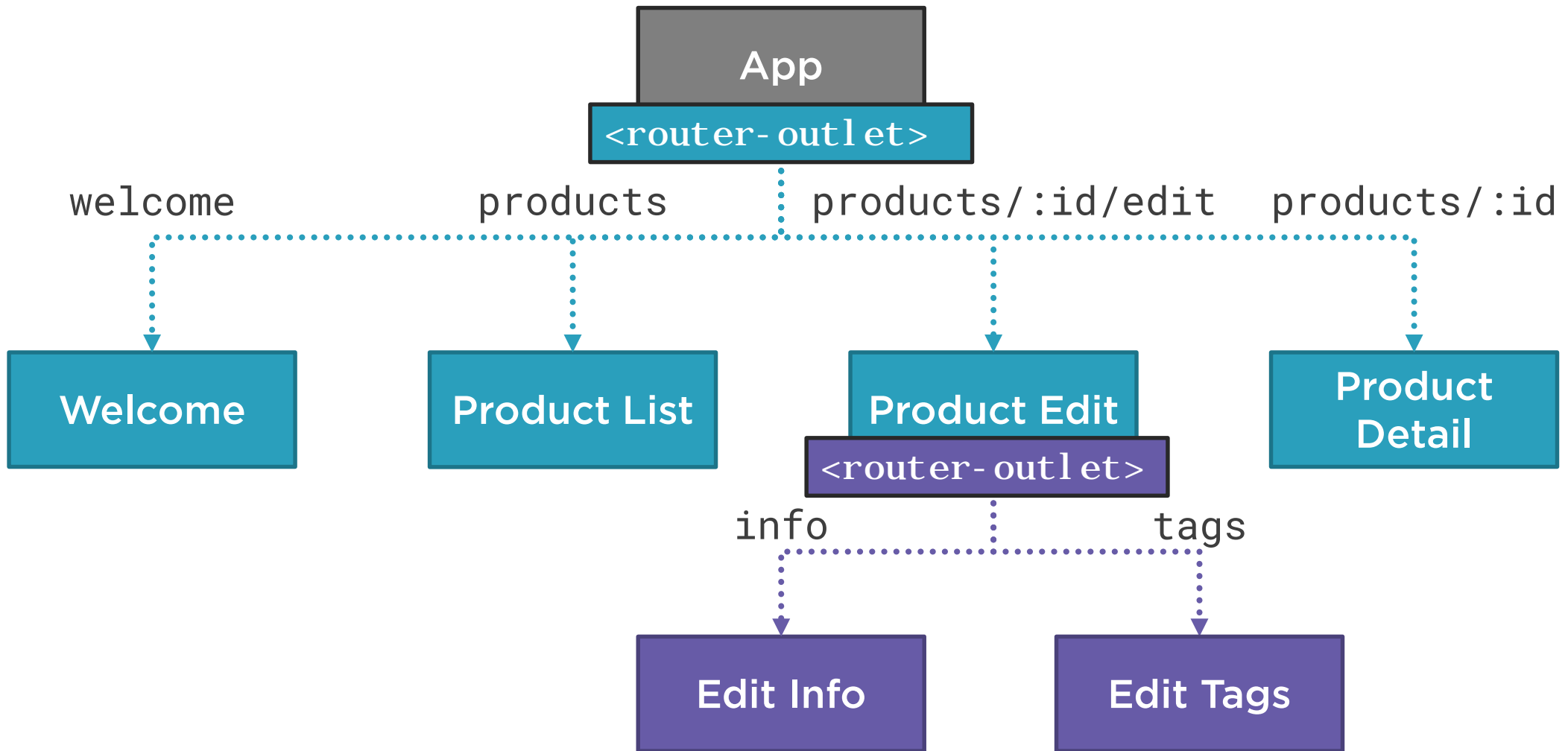
## Child Route Resolver

```
this.product = this.route.snapshot.data[ 'product' ];
```

## Parent Route Resolver

```
this.product = this.route.parent.snapshot.data[ 'product' ];
```



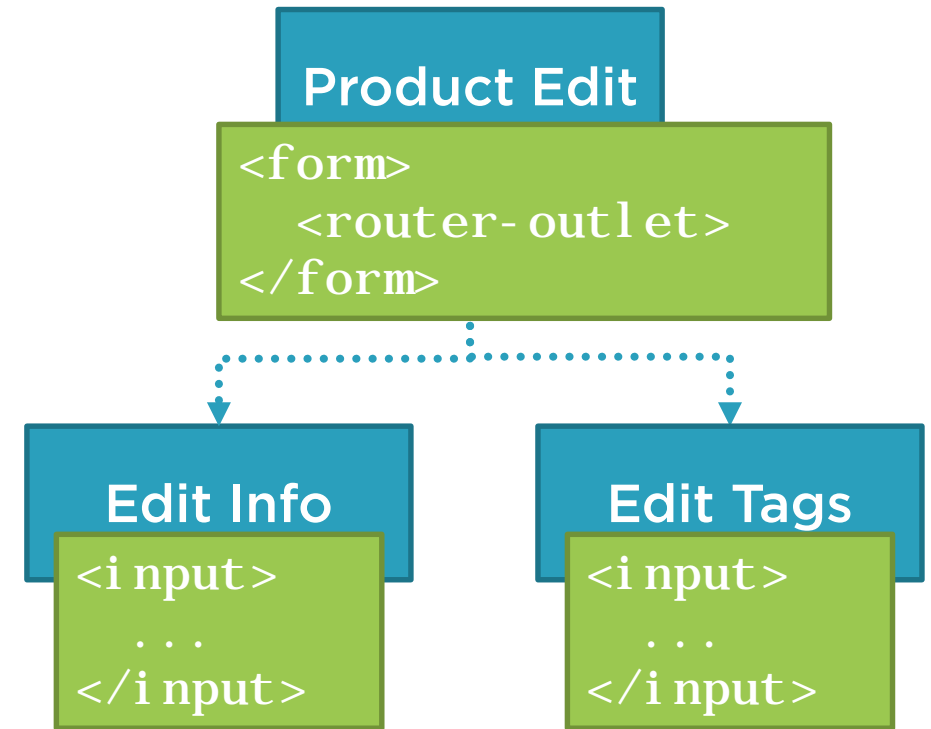




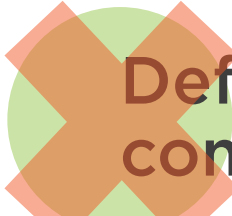
# Validating Across Child Routes



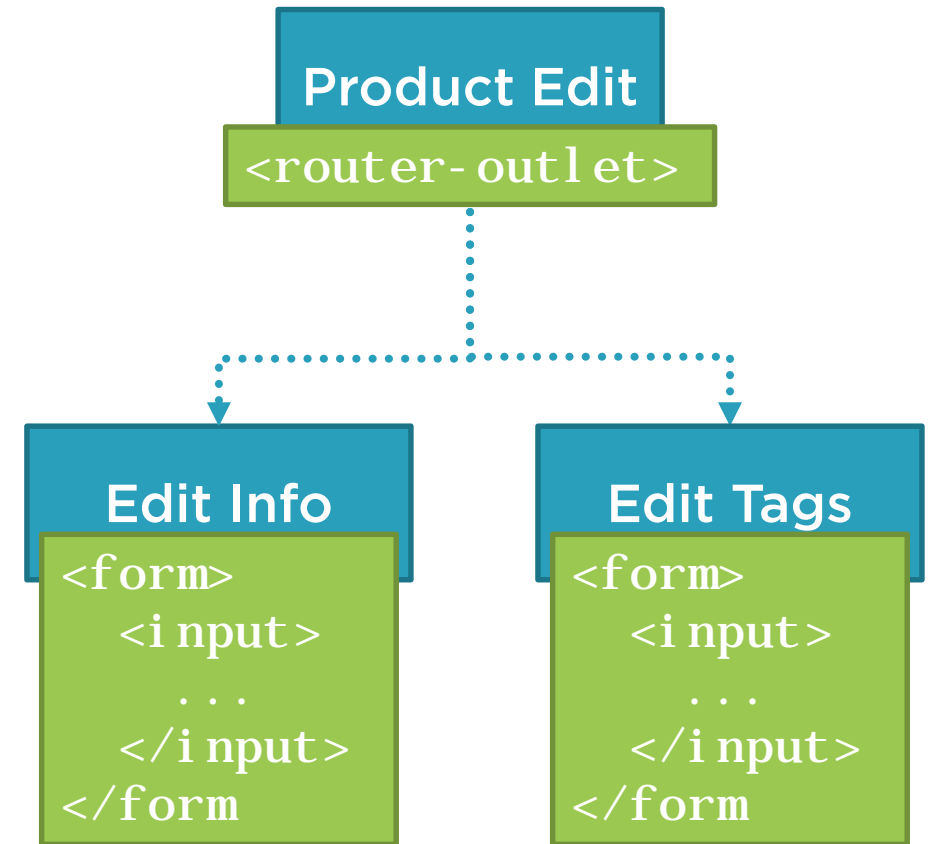
Define the form in the parent component?



# Validating Across Child Routes

 Define the form in the parent component?

 Define a form in each child component?



# Validating Across Child Routes

 Define the form in the parent component?

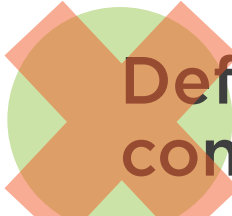
 Define a form in each child component?

 Define all of the tab elements in one component?

Product Edit




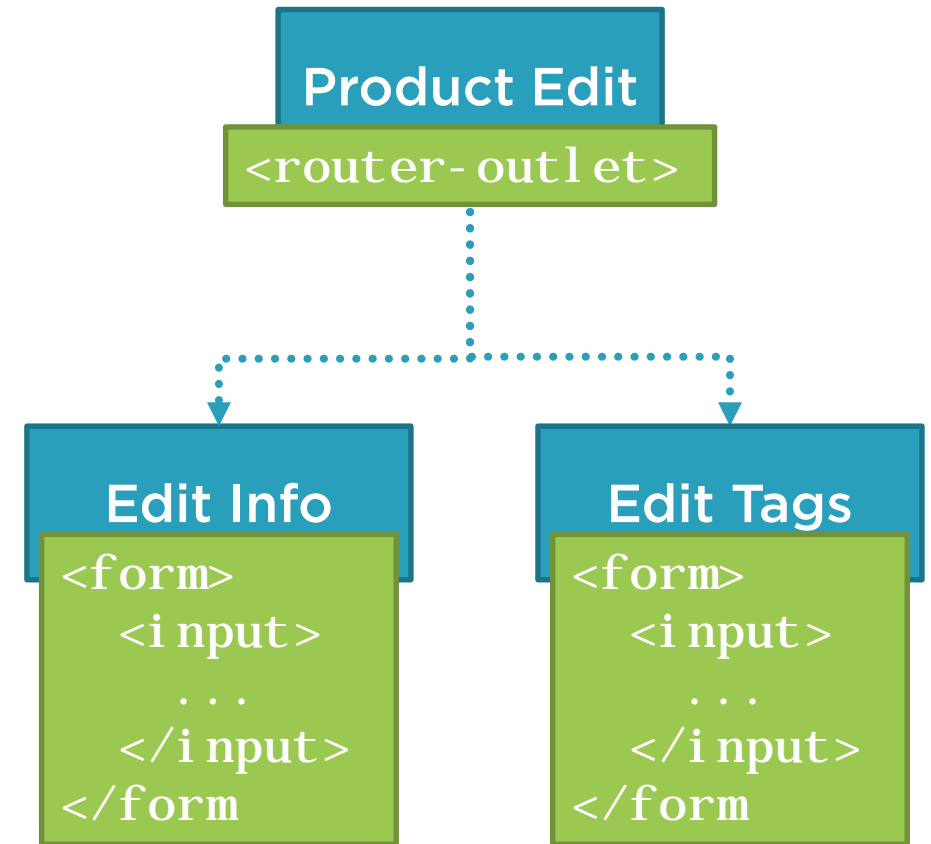
# Validating Across Child Routes

 Define the form in the parent component?

 Define a form in each child component?

 Define all of the tab elements in one component?

 Define a form in each child component, but perform manual validation?



# Child Routes: Configuring



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Add a children array to the parent route

Define the child routes within that array

Child paths extend the parent route

```
{  
  path: 'products/:id/edit',  
  component: ProductEditComponent,  
  resolve: { product: ProductResolver },  
  children: [  
    { path: 'info', component: ProductEditInfoComponent },  
    { path: 'tags', component: ProductEditTagsComponent }  
  ]  
}
```



# Child Routes: Placing



Place the child view by defining a RouterOutlet directive in the parent component's template

```
<div class="panel-body">
  <div class="wizard">
    <a [routerLink]="['info']">Info</a>
    <a [routerLink]="['tags']">Tags</a>
  </div>

  <router-outlet></router-outlet>
</div>
```



# Child Routes: Activating



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## Using an absolute path

- Start with a slash
- Define each Url segment

## Using a relative path

- No starting slash
- Only the child Url segment

```
<a [routerLink]="[' /products', product.id, 'edit', 'info']">Info</a>
```

```
<a [routerLink]="['info']">Info</a>
```

```
this.router.navigate([' /products', this.product.id, 'edit', 'info']);  
this.router.navigate(['info'], { relativeTo: this.route });
```

# Child Routes: Obtaining Data



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## Read the data from the route

- Snapshot

```
this.product = this.route.snapshot.data['product'];
```

- Data Observable

```
this.route.data.subscribe(  
  data => this.product = data['product'];  
);
```





# Summary



**Using Child Routes**

**Configuring Child Routes**

**Placing the Child View**

**Activating Child Routes**

**Obtaining Data for Child Routes**

**Validating Across Child Routes**



