

Child Routes

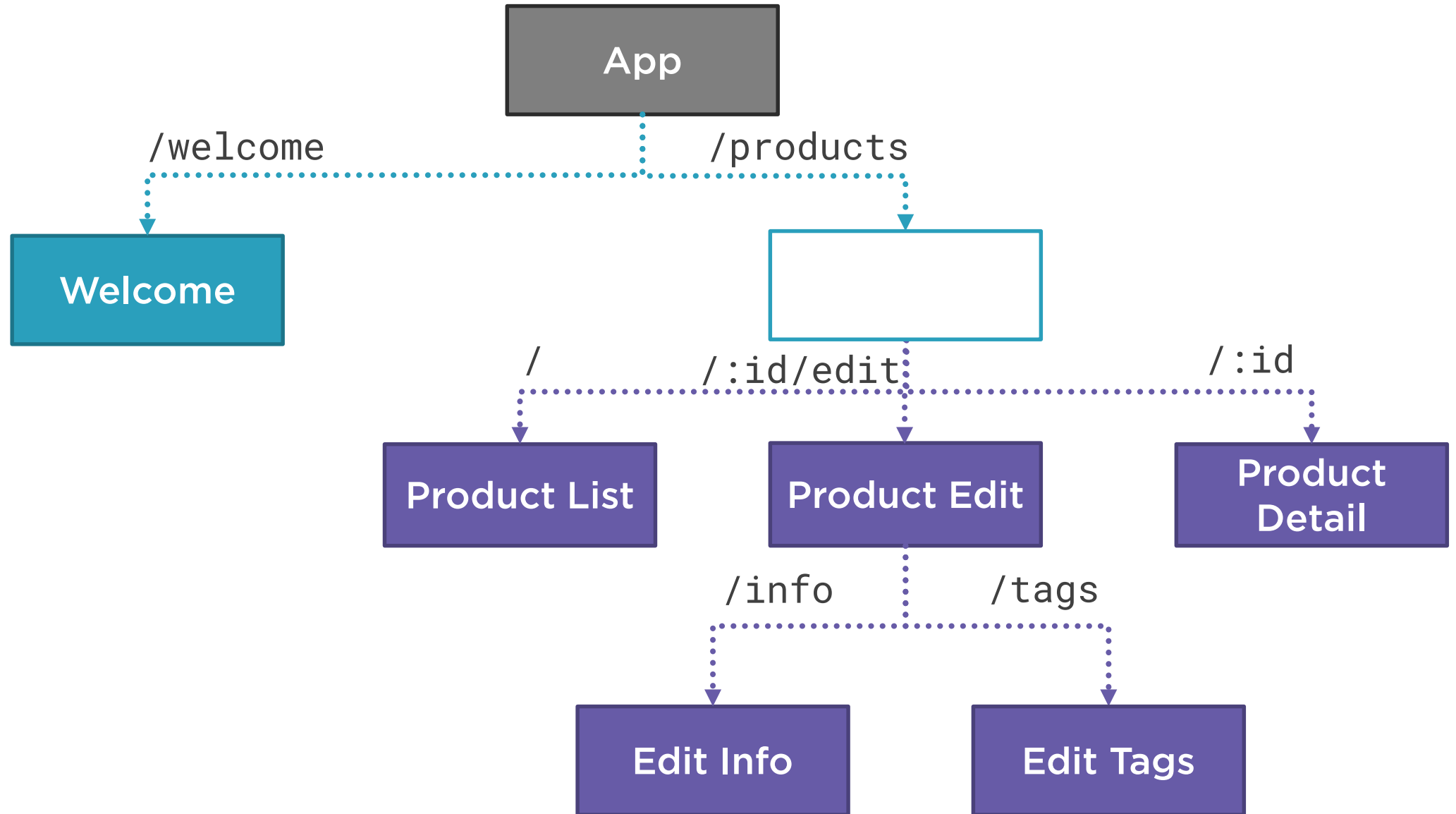


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Module Overview



Using Child Routes

Configuring Child Routes

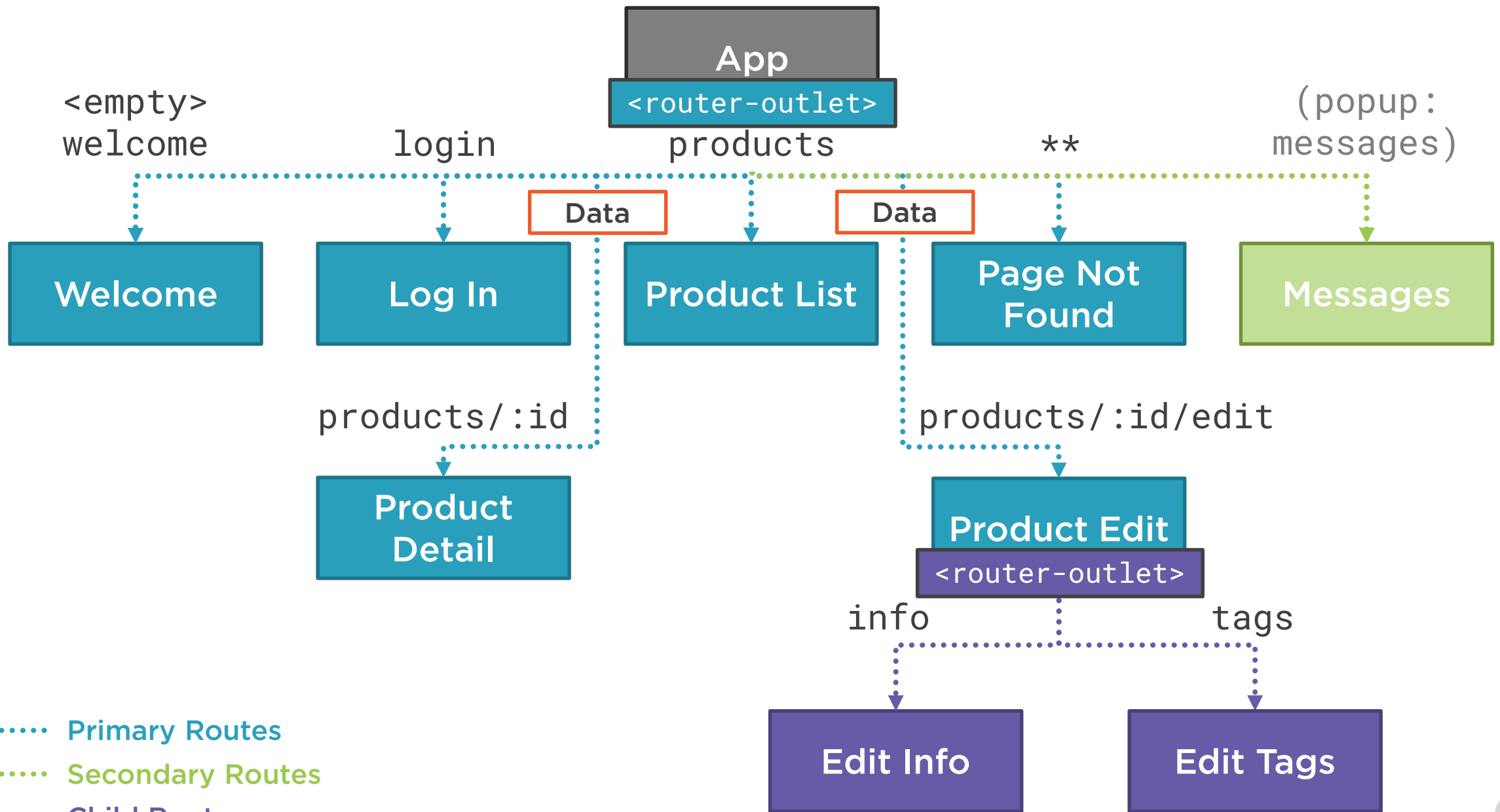
Placing the Child View

Activating Child Routes

Obtaining Data for Child Routes

Validating Across Child Routes





Primary Router Outlet

app.component.html

```
<nav class="navbar">
  <a class="navbar-brand">{{pageTitle}}</a>
  <ul class="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>
  ...
</nav>
<div class="container">
  <router-outlet></router-outlet>
</div>
```



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



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

Edit Product: Hammer

Product Name

Hammer

Product Code

TBX-0048

Description

Curved claw steel hammer

Save

Cancel

Delete



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

Edit Product: Hammer

Basic Information

Search Tags

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

Save

Cancel

Delete



Child Routes



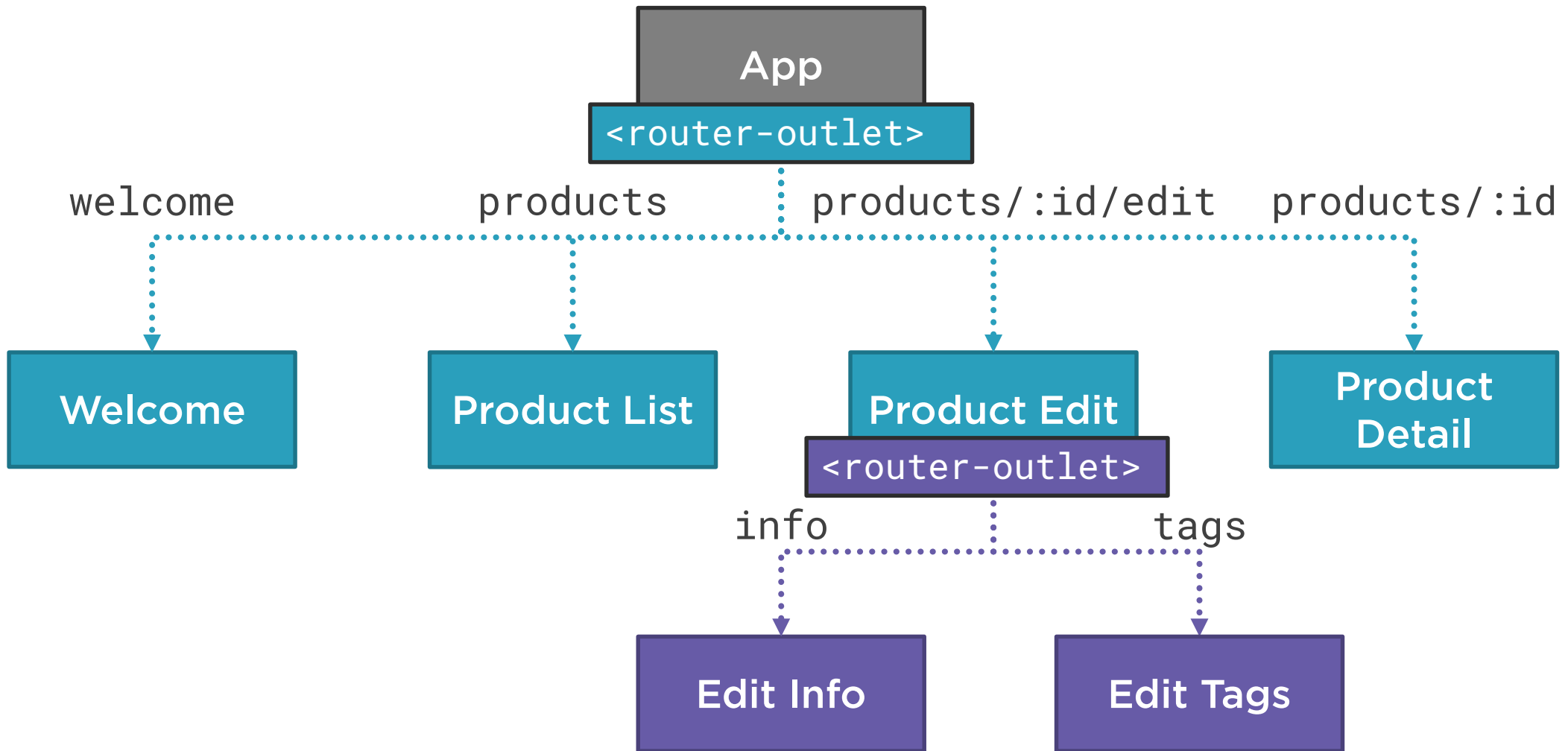
Tabbed pages

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="card-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);
```

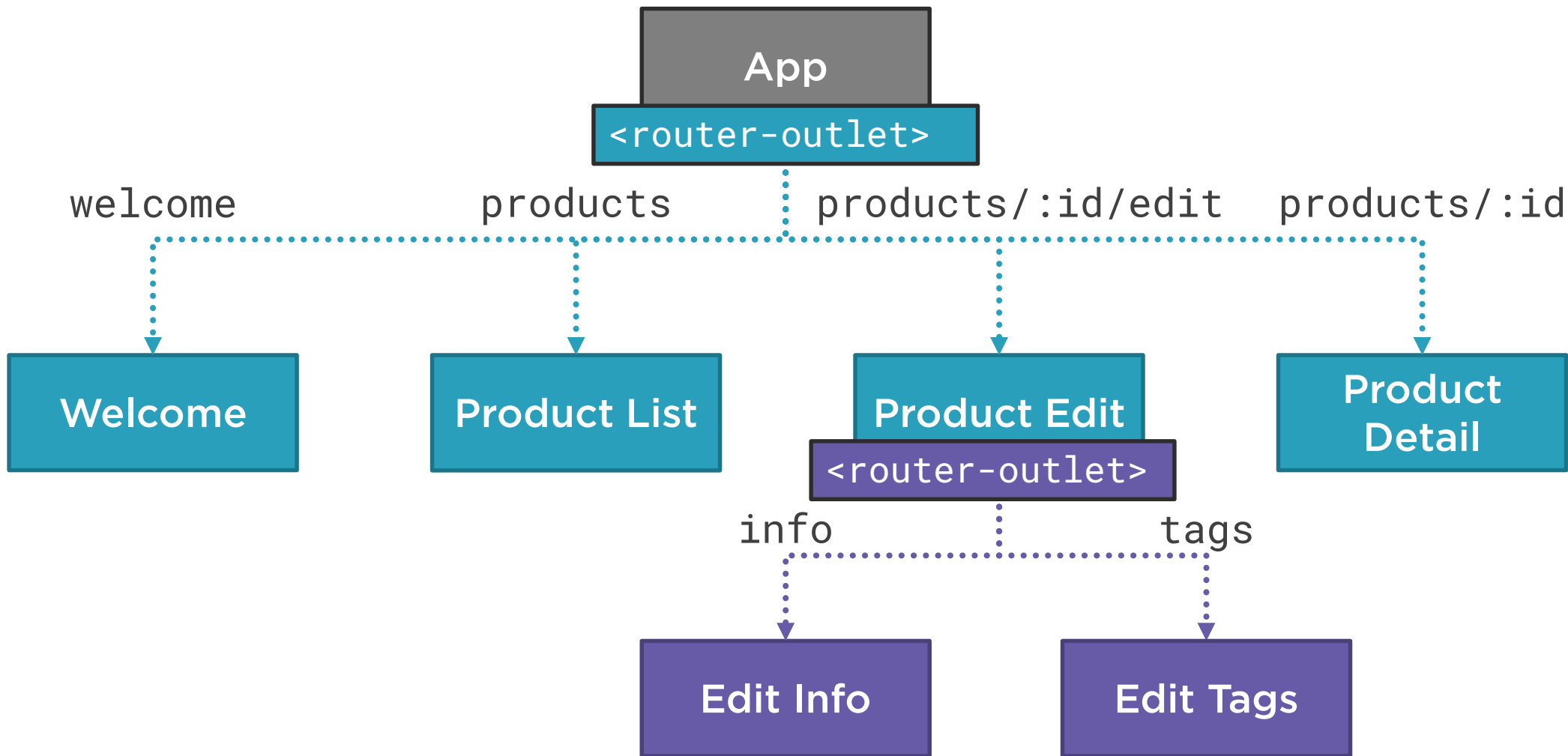
Child Route Resolver

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

Parent Route Resolver

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

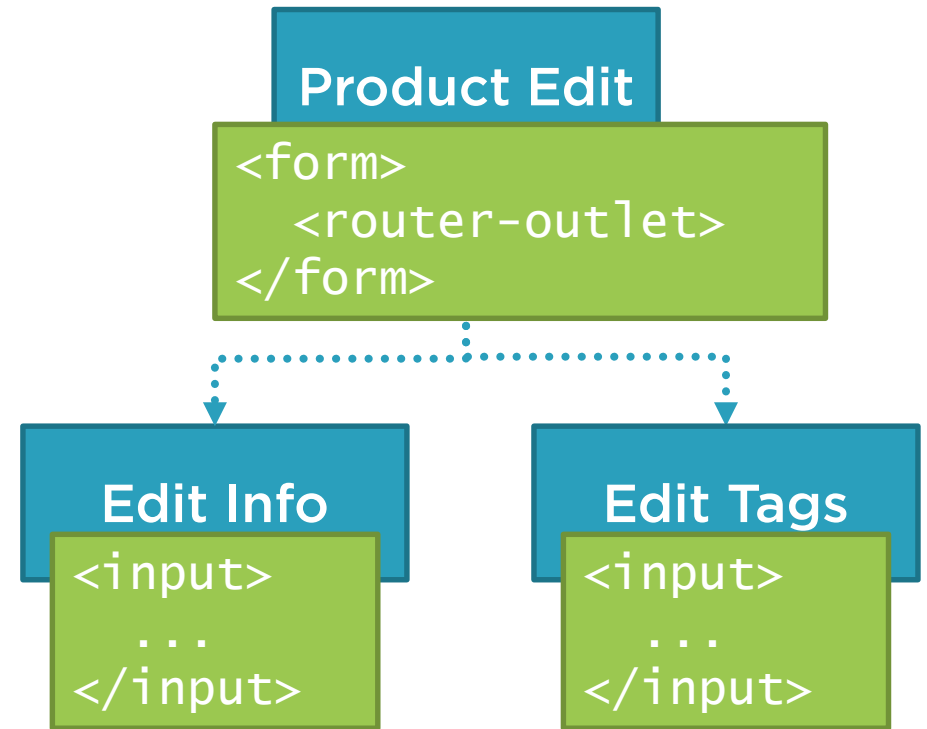




Validating Across Child Routes



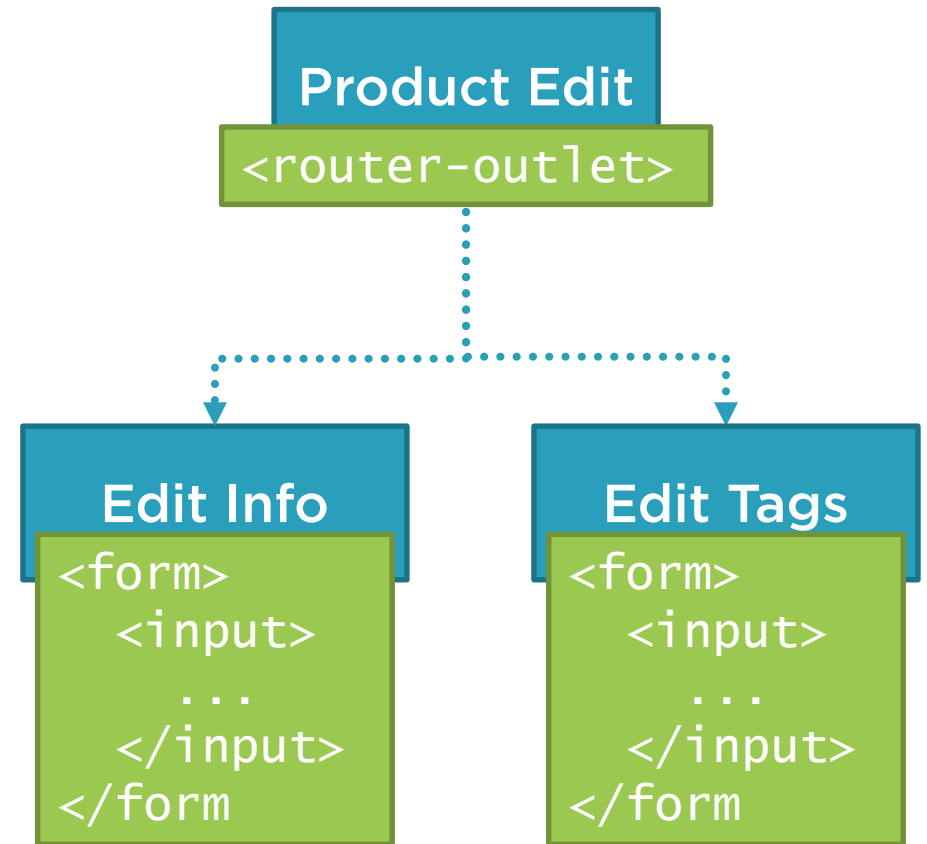
Define the form in the parent component?



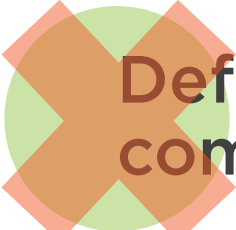
Validating Across Child Routes

 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?

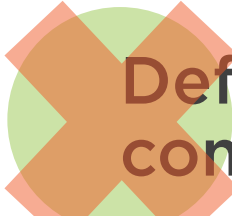
 Define a form in each child component?

 Define all of the tab elements in one component?

Product Edit



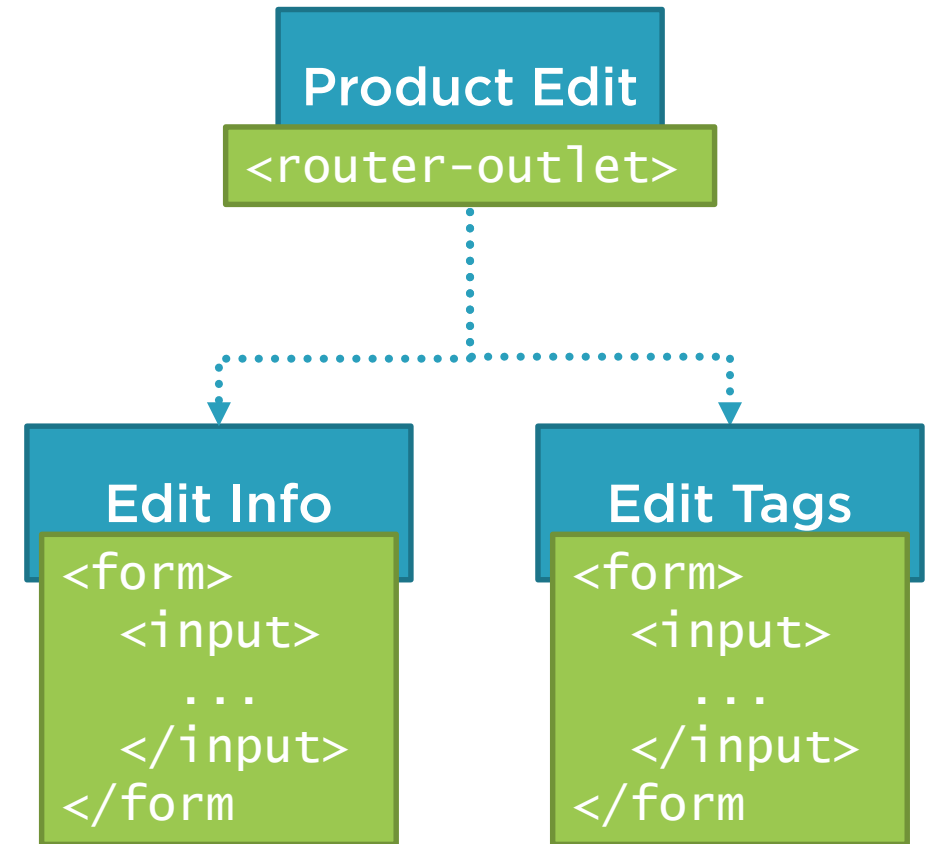
Validating Across Child Routes

 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







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

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



Child Routes: Activating







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







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

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Obtaining Data for Child Routes

Validating Across Child Routes



