Managing Data

Forms

SETUP

Deployment

FUNDAMENTALS

DEV WORKFLOW

CONFIGURATION

QUICK REFERENCE

CLI COMMANDS

RELEASE INFORMATION

TECHNIQUES

A NGULAR FEATURES

>

>

>

>

>

>

Routing

DOCS

RESOURCES

At the end of Your First App, the online store application has a basic product catalog. The app doesn't have any variable states or navigation. There is one URL, and that URL always displays the "My Store" page with a list of products and their descriptions.

To do this, you'll use the Angular router. The Angular router enables you to show different components and data to the user

In this section, you'll extend the app to display full product details in separate pages, with their own URLs.

based on where the user is in the application. The router enables navigation from one view to the next as users perform application tasks: Enter a URL in the address bar, and the browser navigates to a corresponding page.

Search

Routing

Next steps

Registering a route

Using route information

- Click links on the page, and the browser navigates to a new page.
- . Click the browser's back and forward buttons, and the browser navigates backward and forward through the history
- of pages you've seen.

The app is already set up to use the Angular router and to use routing to navigate to the product list component you modified earlier. Let's define a route to show individual product details.

Registering a route

1. Generate a new component for product details. Give the component the name product-details. Reminder: In the file list, right-click the app folder, choose Angular Generator and Component.

- 2. In app.module.ts, add a route for product details, with a path of products/:productId and ProductDetailsComponent for the component.
- src/app/app.module.ts

```
@NgModule({
     imports: [
       BrowserModule,
       ReactiveFormsModule,
       RouterModule.forRoot([
         { path: '', component: ProductListComponent },
         { path: 'products/:productId', component: ProductDetailsComponent },
       1)
     ],
A route associates one or more URL paths with a component.
```

3. Define a link using the RouterLink directive. The routerLink defines how the user navigates to the route (or URL) declaratively in the component template.

We want the user to click a product name to display the details for that product.

a. Open product-list.component.html. b. Update the *ngFor directive to assign each index in the products array to the productId variable when

iterating over the list.

c. Modify the product name anchor to include a routerLink.

src/app/product-list/product-list.component.html

```
<div *ngFor="let product of products; index as productId">
     <h3>
        <a [title]="product.name + ' details'" [routerLink]="['/products', productId]">
          {{ product.name }}
        </a>
     </h3>
   <!-- . . . -->
   </div>
The RouterLink directive gives the router control over the anchor element. In this case, the route (URL) contains one
fixed segment (/products) and the final segment is variable, inserting the id property of the current product. For
```

myfork.stackblitz.io/products/1. 4. Test the router by clicking a product name. The app displays the product details component, which currently always says "product-details works!" (We'll fix this in the next section.) Notice that the URL in the preview window changes. The final segment is products/1.

example, the URL for a product with an id of 1 will be similar to https://getting-started-

← → C anlinestore.stackblitz.io/products/1 My Store product-details works!

The product details component handles the display of each product. The Angular Router displays components based on the browser's URL and your defined routes. You'll use the Angular Router to combine the products data and route

ngOnInit() {

Using route information

information to display the specific details for each product. 1. Open product-details.component.ts 2. Arrange to use product data from an external file.

a. Import ActivatedRoute from the @angular/router package, and the products array from ../products.

```
import { Component, OnInit } from '@angular/core';
     import { ActivatedRoute } from '@angular/router';
     import { products } from '../products';
b. Define the product property and inject the ActivatedRoute into the constructor.
```

export class ProductDetailsComponent implements OnInit

src/app/product-details/product-details.component.ts

src/app/product-details/product-details.component.ts

```
product;
      constructor(
        private route: ActivatedRoute,
     ) { }
The ActivatedRoute is specific to each routed component loaded by the Angular Router. It contains
information about the route, its parameters, and additional data associated with the route.
```

this.route.paramMap.subscribe(params => { this.product = products[+params.get('productId')];

3. In the ngOnInit() method, subscribe to route params and fetch the product based on the productId.

```
});
   }
Angular calls ngOnInit() shortly after creating a component.
The route parameters correspond to the path variables defined in the route. The productId is provided from the URL
that was matched to the route. You use the productId to display the details for each unique product.
```

<h2>Product Details</h2>

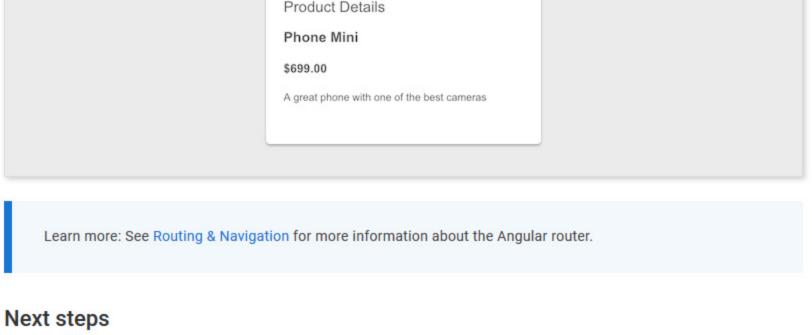
src/app/product-details/product-details.component.html

Update the template to display product details information inside an *ngIf.

For more information on ngOnInit(), see Lifecycle hooks.

```
<div *ngIf="product">
           <h3>{{ product.name }}</h3>
           <h4>{{ product.price | currency }}</h4>
           {{ product.description }}
         </div>
Now, when the user clicks on a name in the product list, the router navigates you to the distinct URL for the product, swaps
out the product list component for the product details component, and displays the product details.
                                        ← → C 🔒 nlinestore.stackblitz.io/products/1
```

My Store **Product Details**



Products are linked from the product list page to individual products

. Users can click on a product name from the list to see details in a new view, with a distinct URL (route)

Congratulations! You have integrated routing into your online store.

- To continue exploring Angular, choose either of the following options: . Continue to the "Managing Data" section to add the shopping cart feature, using a service to manage the cart data and using HTTP to retrieve external data for shipping prices.
 - · Skip ahead to the Deployment section to deploy your app to Firebase or move to local development.