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Forms in Angular

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Define the checkout form model

Create the checkout form

In this section, you'll finish the app by adding a form-based checkout feature. You'll create a form to collect user information as part of checkout.

At the end of Managing Data, the online store application has a product catalog and a shopping cart.

Forms in Angular

Forms in Angular take the standard capabilities of the HTML based forms and add an orchestration layer to help with

DOCS

form, the objects that live in the component to store and manage the form, and the visualization of the form that lives in the template. Define the checkout form model

creating custom form controls, and to supply great validation experiences. There are two parts to an Angular Reactive

First, you'll set up the checkout form model. The form model is the source of truth for the status of the form and is defined in the component class.

 Open cart.component.ts. 2. Angular's FormBuilder service provides convenient methods for generating controls. As with the other services

you've used, you need to import and inject the service before you can use it: a. Import the FormBuilder service from the @angular/forms package.

import { Component } from '@angular/core';

src/app/cart/cart.component.ts

```
import { FormBuilder } from '@angular/forms';
     import { CartService } from '../cart.service';
 The FormBuilder service is provided by the ReactiveFormsModule, which is already defined in the AppModule
 you modified previously (in app.module.ts).

 b. Inject the FormBuilder service.
```

src/app/cart/cart.component.ts

export class CartComponent {

constructor(

items;

checkoutForm;

FormBuilder#group() method.

}

submitted, the form should reset and the cart should clear.

submit the data to an external server.)

```
private cartService: CartService,
               private formBuilder: FormBuilder,
            ) {
          }
3. In the CartComponent class, define the checkoutForm property to store the form model.
    src/app/cart/cart.component.ts
     export class CartComponent
```

items;

```
src/app/cart/cart.component.ts
 export class CartComponent {
  items;
  checkoutForm;
  constructor(
     private cartService: CartService,
     private formBuilder: FormBuilder,
     this.items = this.cartService.getItems();
     this.checkoutForm = this.formBuilder.group({
      name: '',
      address: ''
     });
```

4. During checkout, the app will prompt the user for a name and address. So that you can gather that information later,

set the checkoutForm property with a form model containing name and address fields, using the

The entire cart component is shown below:

method to empty the cart items and reset the form after it is submitted. (In a real-world app, this method also would

5. For the checkout process, users need to be able to submit the form data (their name and address). When the order is

In cart.component.ts, define an onSubmit() method to process the form. Use the CartService#clearCart()

src/app/cart/cart.component.ts import { Component } from '@angular/core'; import { FormBuilder } from '@angular/forms';

```
import { CartService } from '../cart.service';
        @Component({
          selector: 'app-cart',
          templateUrl: './cart.component.html',
          styleUrls: ['./cart.component.css']
        })
        export class CartComponent {
          items;
          checkoutForm;
          constructor(
            private cartService: CartService,
            private formBuilder: FormBuilder,
          ) {
            this.items = this.cartService.getItems();
            this.checkoutForm = this.formBuilder.group({
              name: '',
              address: ''
            });
          onSubmit(customerData) {
            // Process checkout data here
            console.warn('Your order has been submitted', customerData);
            this.items = this.cartService.clearCart();
            this.checkoutForm.reset();
        }
The form model is defined in the component class. To reflect the model in the view, you'll need a checkout form.
Create the checkout form
```

 Open cart.component.html. 2. At the bottom of the template, add an empty HTML form to capture user information.

3. Use a formGroup property binding to bind the checkoutForm to the form tag in the template. Also include a "Purchase" button to submit the form.

</form>

<h3>Cart</h3>

>

function.

src/app/cart/cart.component.html

Next, you'll add a checkout form at the bottom of the "Cart" page.

<form [formGroup]="checkoutForm"> <button class="button" type="submit">Purchase</button>

```
4. On the form tag, use an ngSubmit event binding to listen for the form submission and call the onSubmit() method
  with the checkoutForm value.
     <form [formGroup]="checkoutForm" (ngSubmit)="onSubmit(checkoutForm.value)">
     </form>
5. Add input fields for name and address. Use the formControlName attribute binding to bind the checkoutForm form
```

controls for name and address to their input fields. The final complete component is shown below:

Shipping Prices

<div class="cart-item" *ngFor="let item of items">

```
<span>{{ item.name }} </span>
          <span>{{ item.price | currency }}</span>
        </div>
        <form [formGroup]="checkoutForm" (ngSubmit)="onSubmit(checkoutForm.value)">
          <div>
            <label for="name">
              Name
            </label>
            <input id="name" type="text" formControlName="name">
          </div>
          <div>
            <label for="address">
              Address
            </label>
            <input id="address" type="text" formControlName="address">
          </div>
          <button class="button" type="submit">Purchase</button>
        </form>
After putting a few items in the cart, users can now review their items, enter name and address, and submit their purchase:
                                     My Store
                                     Cart
                                     Shipping Prices
```

```
Phone XL $799.00
                                             Phone Mini$699.00
                                             Phone XL $799.00
                                          ADDRESS
                                            Purchase
Next steps
Congratulations! You have a complete online store application with a product catalog, a shopping cart, and a checkout
```

Continue to the "Deployment" section to move to local development, or deploy your app to Firebase or your own server.