|  |  |
| --- | --- |
| import { Component, **DoCheck** } from '@angular/core';  import { **Product** } from './product.model';  import { **PromoCode** } from './promo-code.model';  @Component({ selector: **'app-root'**,  templateUrl: './app.component.html' })  export class **AppComponent** *implements* **DoCheck** {  **products**: **Product**[] = [  { **id**: 1,  **name**: 'PRODUCT ITEM NUMBER 1',  **description**: 'Description for product item number 1',  **image**: 'https://via.placeholder.com/200x150',  **price**: 5.99,  **quantity**: 2 },  { **id**: 2,  **name**: 'PRODUCT ITEM NUMBER 2',  **description**: 'Description for product item number 2',  **image**: 'https://via.placeholder.com/200x150',  **price**: 9.99,  **quantity**: 1 }  ];  **promoCodes**: **PromoCode**[] = [  { **code**: 'AUTUMN',  **discountPercent**: 10 },  { **code**: 'WINTER',  **discountPercent**: 20 }  ];  **numberItems**: number = 0;  **subTotal**: number = 0;  **discountPercent**: number = 0;  **discount**: number = 0;  **taxPercent**: number = 10;  **tax**: number = 0;  **ngDoCheck**() {  this.**numberItems** = 0;  this.**subTotal** = 0;  for (const **product** of this.**products**) {  this.**numberItems** += **product**.*quantity*;  this.**subTotal** += **product**.*price* \* **product**.*quantity*; }  this.**discount** = (this.**subTotal** \* this.**discountPercent**) / 100;  this.**tax** = ((this.**subTotal** - this.**discount**) \* this.**taxPercent**) / 100;  }  **handleUpdateQuantity**(**p**: { **id**: number; **quantity**: number }) {  const **product** = this.**products**.*find*(**product** => **product**.*id* === **p**.id);  if (**product**) {  **product**.*quantity* = **p**.*quantity* || 0; }  } | **handleRemoveProduct**(**id**: number) {  const **index** = this.**products**.*findIndex*(**product** => **product**.id === **id**);  if (**index** !== -1) {  this.**products**.*splice*(**index**, 1); }  }  **handleApplyPromoCode**(**code**: string) {  const **promoCode** = this.**promoCodes**.*find*(  **promoCode** => **promoCode**.**code** === **code** );  this.**discountPercent** = **promoCode** ? **promoCode**.discountPercent : 0;  this.**discount** = (this.**subTotal** \* this.**discountPercent**) / 100;  **if** (this.**discount** > 0) {  alert(`The promotional code was applied.`);  } **else** {  alert(  'Sorry, the promotional code you entered is not valid! Try code "AUTUMN" (discount 10% to all cart items) or "WINTER" (discount 20% to all cart items).'  );  } } }  <**main**>  <header class="container">  <***app-cart-header*** [**numberItems**]="**numberItems** || 0"></***app-cart-header***>  </header>  <section class="container">  <***app-product-list***  [**products**]="**products**"  (**onUpdateQuantity**)="**handleUpdateQuantity**($*event*)"  (**onRemoveProduct**)="**handleRemoveProduct**($*event*)"  ></***app-product-list***>  <div class="empty-product" \***ngIf**="**products**.*length* === 0">  <h3>There are no products in your cart.</h3>  <button>Shopping now</button>  </div>  </section>  <section class="container" \***ngIf**="**products**.*length* > 0">  <***app-promo-code***  (**onApplyPromoCode**)="**handleApplyPromoCode**($*event*)"  ></***app-promo-code***>  <***app-cart-summary***  [**subTotal**]="**subTotal**"  [**discount**]="**discount**"  [**tax**]="**tax**"  ></***app-cart-summary***>  </section>  </**main**> |