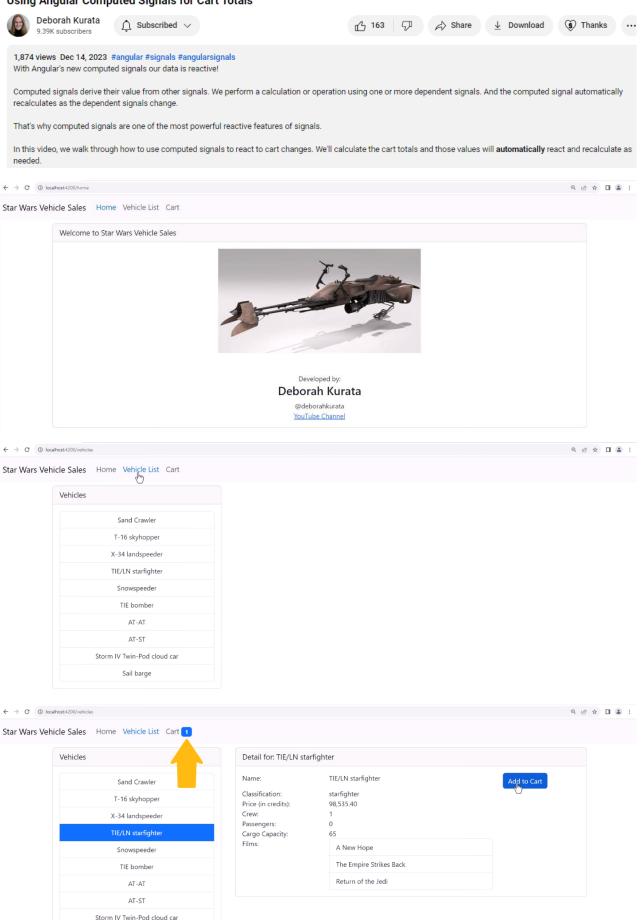
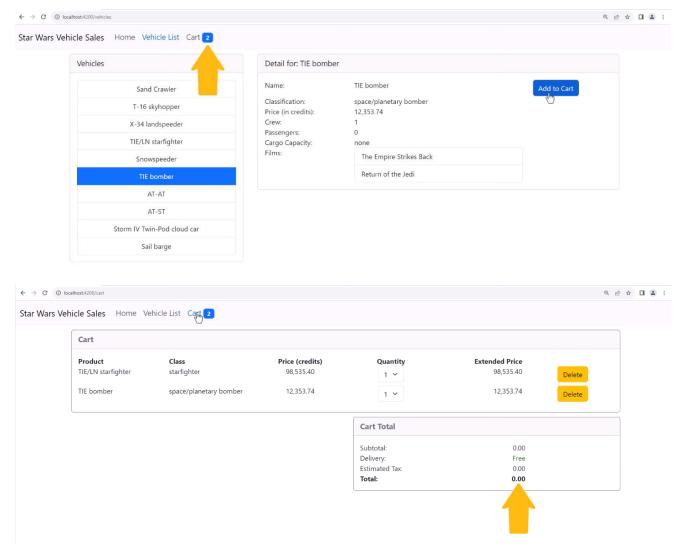
Using Angular Computed Signals for Cart Totals

Sail barge





But the Cart totals doesn't yet react to changes in the Cart, we will used computed() signals to react to Cart changes

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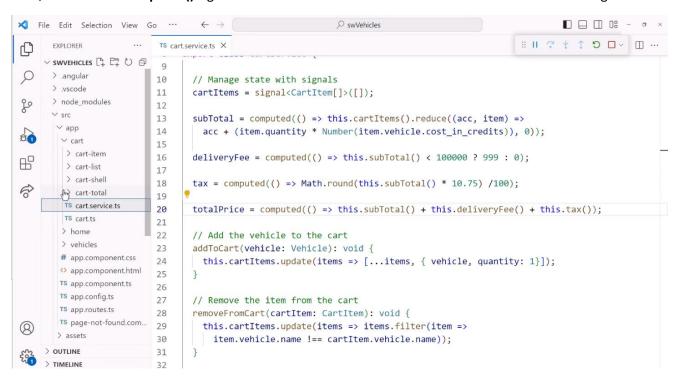
∠ swVehicles

                                                                                                    TS cart.service.ts X
          import { Injectable, signal } from "@angular/core";
      1
          import { Vehicle } from "../vehicles/vehicle";
import { CartItem } from "./cart";
0
go
          @Injectable({
           providedIn: 'root'
          })
          export class CartService {
            // Manage state with signals
     10
0
            cartItems = signal<CartItem[]>([]);
     11
     12
     13
            // Add the vehicle to the cart
     14
            addToCart(vehicle: Vehicle): void {
     15
            this.cartItems.update(items => [...items, { vehicle, quantity: 1}]);
     16
     17
     18
            // Remove the item from the cart
     19
            removeFromCart(cartItem: CartItem): void {
              this.cartItems.update(items => items.filter(item =>
     20
                item.vehicle.name !== cartItem.vehicle.name));
     21
     22
     23
    24
            updateInCart(cartItem: CartItem, quantity: number) {
```

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∠ swVehicles

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  File Edit Selection View Go ...
     TS cart.service.ts X
                                                                                               6
           providedIn: 'root'
0
      7
         })
         export class CartService {
     9
     10
           // Manage state with signals
    11
           cartItems = signal<CartItem[]>([]);
20
    12
           // Add the vehicle to the cart
EF
           addToCart(vehicle: Vehicle): void {
             this.cartItems.update(items => [...items, { vehicle, quantity: 1}]);
8
     16
     17
     18
           // Remove the item from the cart
     19
           removeFromCart(cartItem: CartItem): void {
     20
             this.cartItems.update(items => items.filter(item =>
     21
               item.vehicle.name !== cartItem.vehicle.name));
     22
     23
     24
           updateInCart(cartItem: CartItem, quantity: number) {
     25
             this.cartItems.update(items =>
     26
               items.map(item => item.vehicle.name === cartItem.vehicle.name ?
     27
                 { vehicle: cartItem.vehicle, quantity } : item));
     28
```

Next, let's add the computed() signals we need to calculate the cart total and make it react to changes



Next, we need to reference this totalPrice computed() signal in the Cart component as below

```
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    Explorer (Ctrl+Shift+E) ... TS cart.service.ts
                                                                                            ... □ ∨ □ ୯ ↑ ↑ 5 □ ...
(F)
    V SWVEHICLES ☐ ☐ O
                         1 import { Component, inject, signal } from '@angular/core';
                         0
     > .angular
                         3
      > .vscode
      > node_modules
                         4
                             import { CartService } from '../cart.service';
      ∨ src
       ∨ app
                         6 @Component({
                       7
                             selector: 'sw-cart-total',
                       8
       > cart-item
                              standalone: true,
                         9
                               imports: [DecimalPipe, NgIf],
        > cart-list
                       10
                               templateUrl: './cart-total.component.html'
        > cart-shell
                        11 })

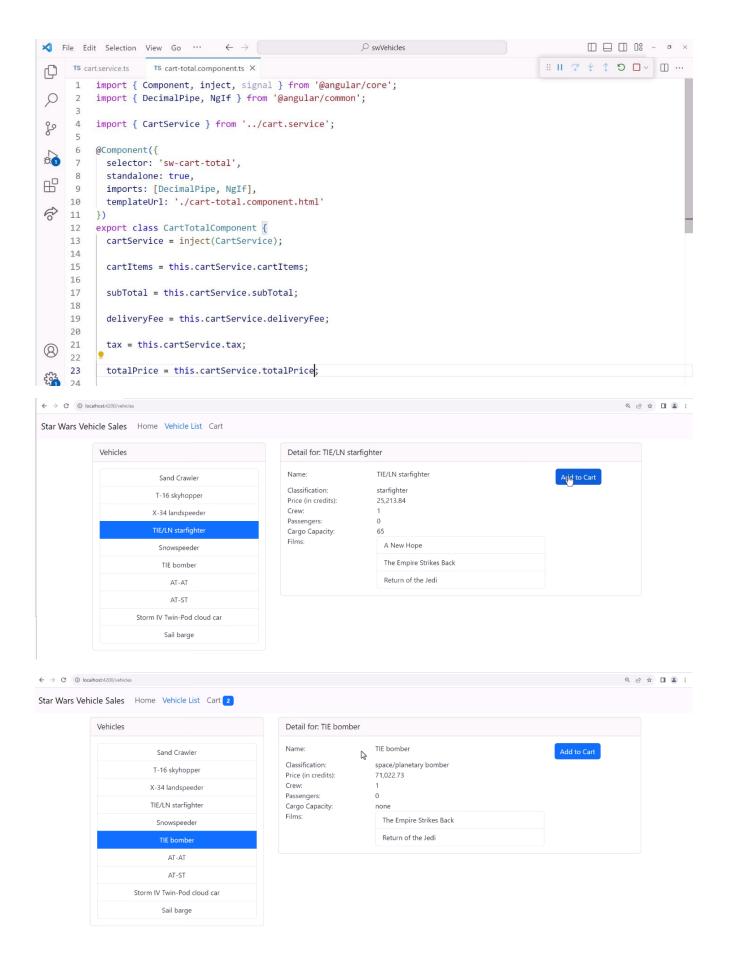
✓ cart-total

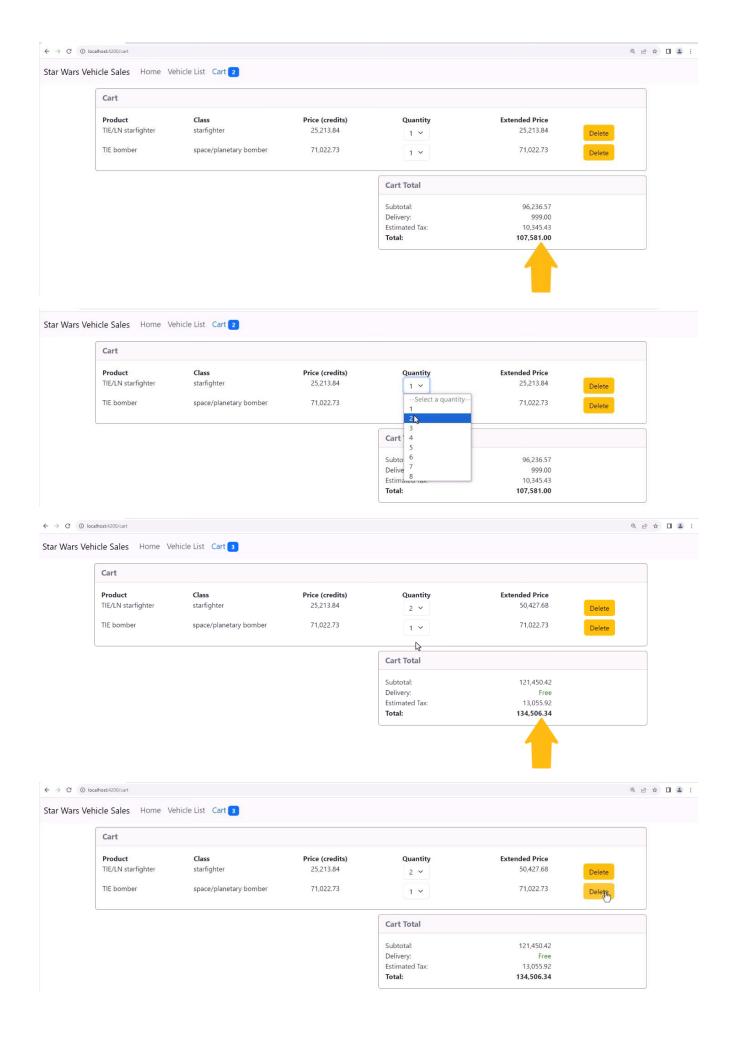
       cart-total.compone... 12
                             export class CartTotalComponent {
     TS cart-total.compone... 13
                              cartService = inject(CartService);
                       14
       TS cart.service.ts
                       15
                              cartItems = this.cartService.cartItems;
       TS cart ts
       > home
                        16
                      17
       > vehicles
                               subTotal = signal(0);
       # app.component.css 18
       opp.component.html 19
                              deliveryFee = signal(0);
       TS app.component.ts 20
       TS app.config.ts 21
                               tax = signal(0);
                        22
       TS app.routes.ts
                        23
                               totalPrice = signal(0);
                24
                                                                                                    □ □ □ 08 - σ ×
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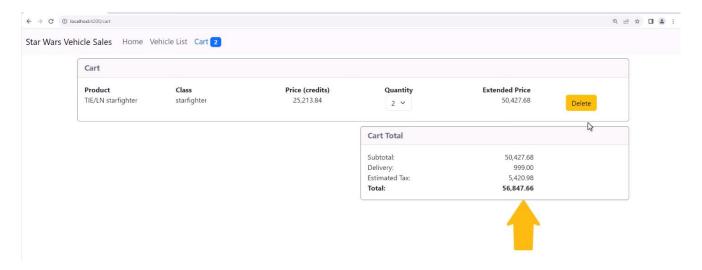
∠ swVehicles

                                                                                            ... [ V C 1 + 5 II II
     TS cart.service.ts
                  TS cart-total.component.ts X
         import { Component, inject, signal } from '@angular/core';
         Import { DecimalPipe, NgIf } from '@angular/common';
0
        import { CartService } from '../cart.service';
20
         @Component({
20
     7
          selector: 'sw-cart-total',
     8
           standalone: true,
     9
           imports: [DecimalPipe, NgIf],
     10
           templateUrl: './cart-total.component.html'
    11
         export class CartTotalComponent {
    12
           cartService = inject(CartService);
    14
    15
           cartItems = this.cartService.cartItems;
    16
    17
           subTotal = signal(0);
    18
           deliveryFee = signal(0);
    19
    20
    21
           tax = signal(0);
8
     22
     23
           totalPrice = signal(0);
```

Let' update as below to use the signals







With Angular's computed() signals, our data automatically reacts to changes in other signals without needing to handle events or create subjects!!!