

Lesson 02 Demo 04

Creating Reactive Form with FormControl

Objective: To create a reactive form with FormControl in Angular

Tools required: Visual Studio Code

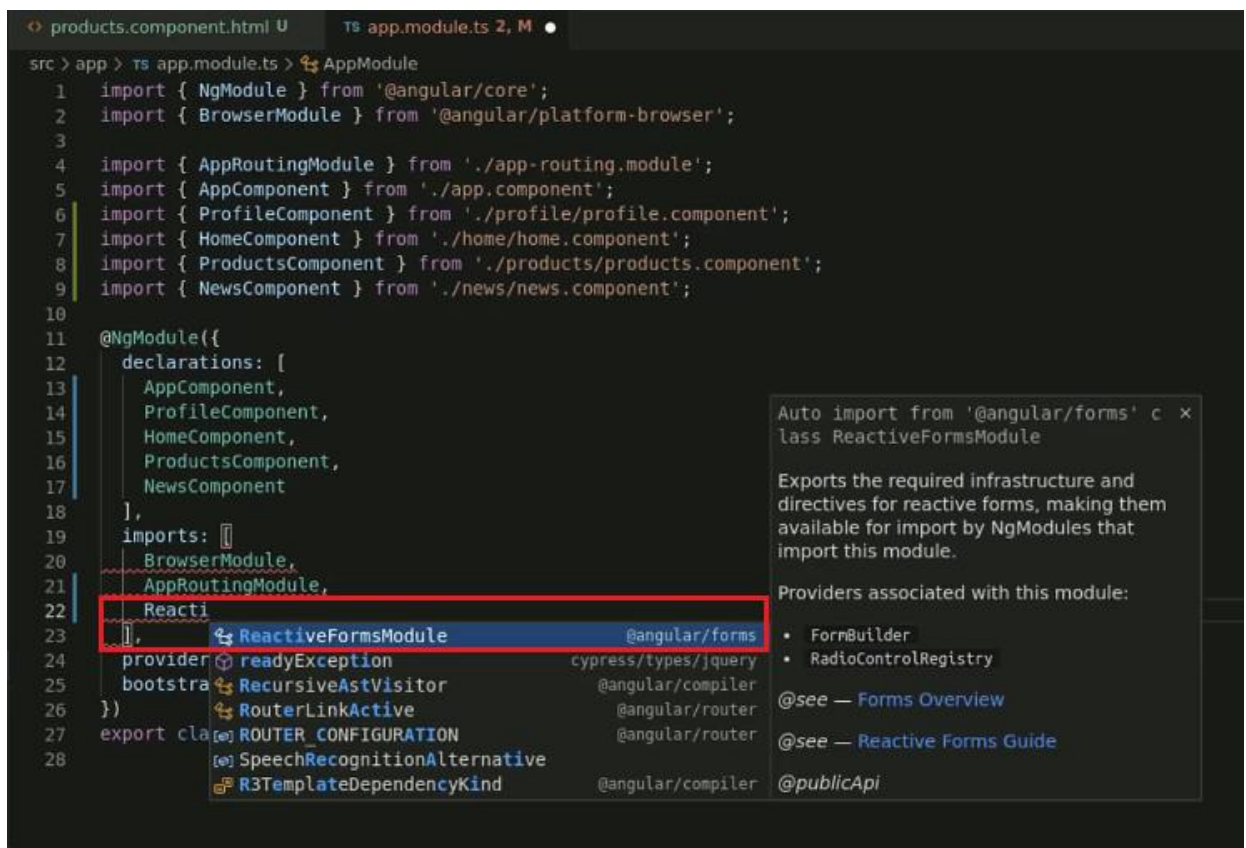
Prerequisites: JavaScript

Steps to be followed:

1. Create a reactive form in the HTML file

Step 1: Create a reactive form in the HTML file

1.1 Add ReactiveFormsModule in the app.module.ts file



```

src > app > ts app.module.ts > AppModule
1  import { NgModule } from '@angular/core';
2  import { BrowserModule } from '@angular/platform-browser';
3
4  import { AppRoutingModule } from './app-routing.module';
5  import { AppComponent } from './app.component';
6  import { ProfileComponent } from './profile/profile.component';
7  import { HomeComponent } from './home/home.component';
8  import { ProductsComponent } from './products/products.component';
9  import { NewsComponent } from './news/news.component';
10
11 @NgModule({
12   declarations: [
13     AppComponent,
14     ProfileComponent,
15     HomeComponent,
16     ProductsComponent,
17     NewsComponent
18   ],
19   imports: [
20     BrowserModule,
21     AppRoutingModule,
22     ReactiveFormsModule
23   ],
24   providers: [
25     RecursiveAstVisitor
26   ],
27   bootstrap: [
28     RouterLinkActive
29   ],
30   export class ROUTER_CONFIGURATION
31   SpeechRecognitionAlternative
32   R3TemplateDependencyKind

```

Auto import from '@angular/forms' class ReactiveFormsModule

Exports the required infrastructure and directives for reactive forms, making them available for import by NgModules that import this module.

Providers associated with this module:

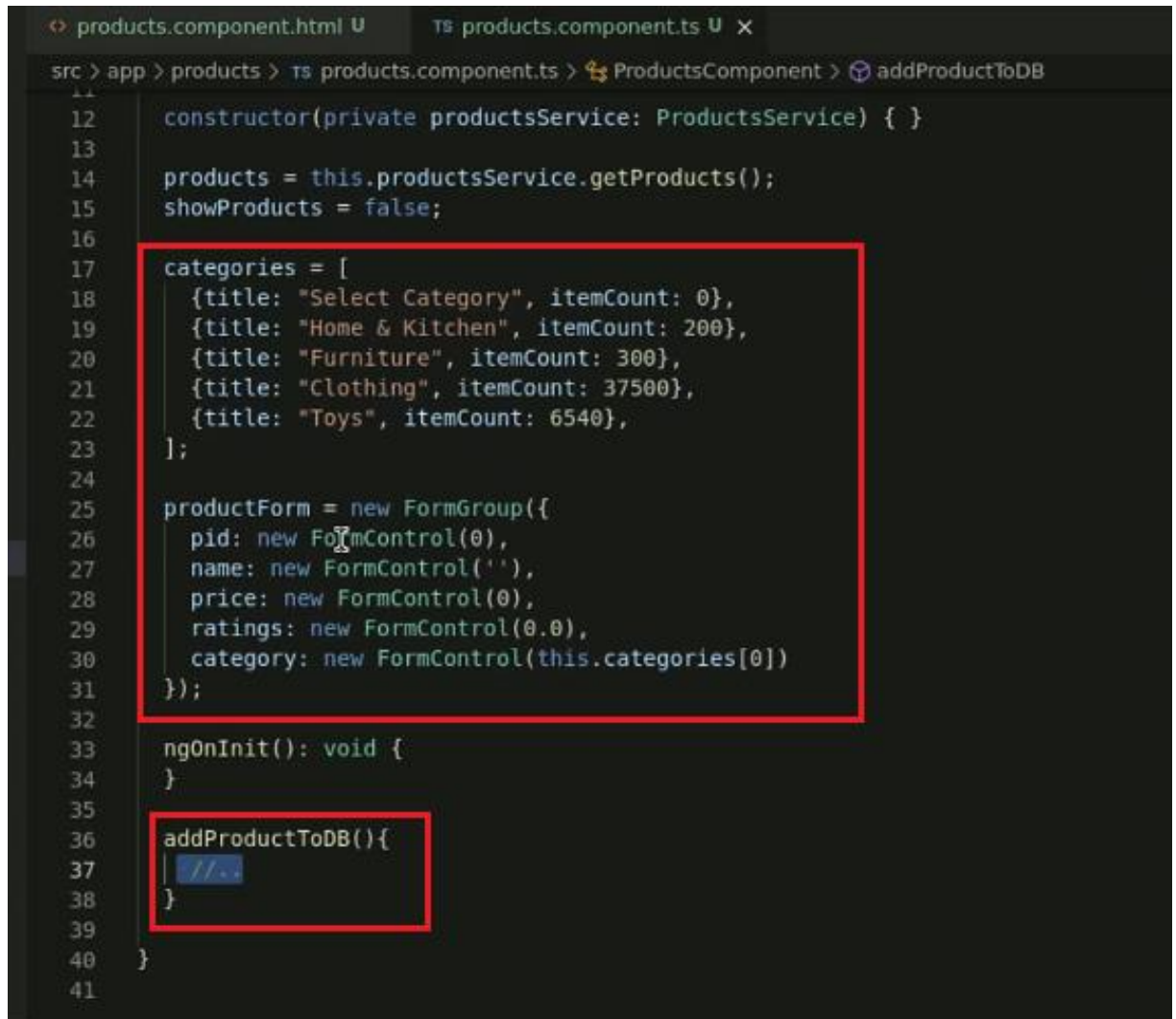
- FormBuilder
- RadioControlRegistry

@see — Forms Overview

@see — Reactive Forms Guide

@publicApi

1.2 Create a new **FormGroup** in the **products.component.ts** file



```
products.component.html U  TS products.component.ts U X
src > app > products > TS products.component.ts > ProductsComponent > addProductToDB
11
12 constructor(private productService: ProductService) { }
13
14 products = this.productService.getProducts();
15 showProducts = false;
16
17 categories = [
18   {title: "Select Category", itemCount: 0},
19   {title: "Home & Kitchen", itemCount: 200},
20   {title: "Furniture", itemCount: 300},
21   {title: "Clothing", itemCount: 37500},
22   {title: "Toys", itemCount: 6540},
23 ];
24
25 productForm = new FormGroup({
26   pid: new FormControl(0),
27   name: new FormControl(''),
28   price: new FormControl(0),
29   ratings: new FormControl(0.0),
30   category: new FormControl(this.categories[0])
31 });
32
33 ngOnInit(): void {
34 }
35
36 addProductToDB(){
37   //..
38 }
39
40 }
41
```

1.3 Add `productForm` in a `div` tag in the `products.component.html` file

```

products.component.html x  Ts products.component.ts U
src > app > products > products.component.html > div > form
3  <form [formGroup]="productForm" (ngSubmit)="addProductToDB()">
4    <p>Product ID:</p>
5    <input type="text" id="productID" placeholder="eg: 101" formControlName="pid">
6    <br>
7
8    <p>Product Name:</p>
9    <input type="text" id="productName" placeholder="eg: Sports Shoe" formControlName="name">
10   <br>
11
12   <p>Product Price:</p>
13   <input type="text" id="productPrice" placeholder="eg: 2000" formControlName="price">
14   <br>
15
16   <p>Product Ratings:</p>
17   <input type="text" id="productID" placeholder="eg: 4.5" formControlName="ratings">
18   <br>
19
20   <select formControlName="category">
21     <option *ngFor="let category of categories">
22       {{category.title}}
23     </option>
24   </select>
25
26   <br>
27   <button type="submit">ADD PRODUCT</button>
28 </form>
29 </div>
30
31 <h2>List Of Products</h2>
32 <div *ngIf="showProducts">
33   <p *ngFor="let product of products">
34     {{product.pid}} | {{product.name}} | {{product.price}} | {{product.ratings}}
35   </p>

```

1.4 Run the project by using the following command:

ng serve -o

```

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL
Node.js version v17.2.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://n
odejs.org/en/about/releases/.
srijanighataksi@ip-172-31-27-104:~/Documents/estore$ ng serve -o
Node.js version v17.2.0 detected.
Odd numbered Node.js versions will not enter LTS status and should not be used for production. For more information, please see https://n
odejs.org/en/about/releases/.
* Generating browser application bundles (phase: setup)...

```

Estore x +

localhost:4200/products

Products News Profile

Welcome to Home

eStore - Shop with Ease like never before

Add Product

Product ID:

Product Name:

Product Price:

Product Ratings:

Select Category ▼

ADD PRODUCT

List Of Products