**npm install –g @angular/cli@19.2.0**

**ng new folder name**

**ng g c masteradd**

**ng g s services/masteradd/masteradd**

**ng g s services/product-category/product-category**

**app.component.html**

<h1>Angular Example</h1>

<nav>

<a routerLink="masteradd">MasteraAdd</a>

</nav>

<hr />

<router-outlet />

**masteradd.component.html**

<h2>Masteradd Works!</h2>

<div \*ngIf="isList">

<button type="button" (click)="switchView();">Add New</button>

<div \*ngIf="productCategories.length === 0">Loading...</div>

<table border="1">

<thead>

<tr>

<th>ID</th>

<th>Name</th>

<th>#</th>

<th>#</th>

</tr>

</thead>

<tbody>

<tr \*ngFor="let item of productCategories">

<td>**{{** item.productCategoryID **}}**</td>

<td>**{{** item.name **}}**</td>

<td><button type="button" (click)="edit(item)">Edit</button></td>

<td><button type="button" (click)="delete(item.productCategoryID)">Delete</button></td>

</tr>

</tbody>

</table>

</div>

<div \*ngIf="!isList">

<button type="button" (click)="switchView();">Back</button>

<h2>**{{**productCategory.productCategoryID ==0? 'New' : 'Edit'**}}**</h2>

Type:<input [(ngModel)]="productCategory.name" placeholder="new category" />

<table border="1">

<thead>

<tr>

<th><button type="button" (click)="add()">+</button></th>

<th>ProductName</th>

<th>ProductNumber</th>

<th>weight</th>

<th>Color</th>

<th>Size</th>

<th>Cost</th>

<th>Price</th>

</tr>

</thead>

<tbody>

<tr \*ngFor="let item of productCategory.products; let i = index">

<td><button type="button" (click)="remove(i)">X</button></td>

<td><input type="text" name="item.name" [(ngModel)]="item.name"></td>

<td><input type="text" name="item.productNumber" [(ngModel)]="item.productNumber"></td>

<td><input type="number" name="item.weight" [(ngModel)]="item.weight"></td>

<td><input type="text" name="item.color" [(ngModel)]="item.color"></td>

<td><input type="number" name="item.size" [(ngModel)]="item.size"></td>

<td><input type="number" name="item.standardCost" [(ngModel)]="item.standardCost"></td>

<td><input type="number" name="item.listPrice" [(ngModel)]="item.listPrice"></td>

</tr>

</tbody>

</table>

<button type="button" (click)="onSubmit()">Submit</button>

</div>

**masteradd.component.ts**

imports: [CommonModule, ReactiveFormsModule, FormsModule],

export class MasteraddComponent {

productCategories: ProductCategory[] = [];

productCategory: ProductCategory = {

name: '',

productCategoryID: 0,

products:[]

};

masteradds: Masteradd[] = [];

isList: boolean = true;

constructor(private productCategoriesService: ProductCategoriesService, private fb: FormBuilder) {

}

ngOnInit() {

this.getData();

}

getData() {

this.productCategoriesService.getProductCategories().subscribe((data) => {

this.productCategories = data;

});

}

onSubmit(){

if (this.productCategory.productCategoryID == 0) {// api call for insert

this.productCategoriesService.addProductCategory(this.productCategory).subscribe(response => {

this.switchView();

this.resetData();

});

} else {// api call for update

this.productCategoriesService.updateProductCategory(this.productCategory.productCategoryID, this.productCategory).subscribe(response => {

this.switchView();

this.resetData();

});

}

}

add() {

this.productCategory.products.push({

name: '',

productNumber: '',

color: '',

standardCost: 0,

listPrice: 0,

size: 0,

weight: 0,

productCategoryID: 0,

productType: '',

});

}

remove(index:number) {

this.productCategory.products.splice(index, 1);

}

resetData() {

this.productCategory ={

name: '',

productCategoryID: 0,

products:[]

};

}

switchView() {

this.isList = this.isList == true ? false : true;

if (this.isList) {

this.getData();

}

}

delete(id: number) {

var isConfirm = confirm('Are you sure?');

if (isConfirm) {

this.productCategoriesService.deleteProductCategory(id).subscribe(response => {

this.getData();

});

}

}

edit(item: ProductCategory) {

this.productCategory.productCategoryID = item.productCategoryID;

this.productCategory.name = item.name;

this.productCategory.products = item.products;

this.switchView();

}

}

**masteradd.service.ts**

export class MasteraddsService {

private apiUrl = 'https://localhost:7115/ProductCategories';

constructor(private http: HttpClient) {}

}

export interface Masteradd {

name: string;

productNumber:string;

color: string;

standardCost: number;

listPrice: number;

size: number;

weight: number;

productCategoryID: number;

productType: string;

}

**product-category.service.ts**

export class ProductCategoriesService {

private apiUrl = 'https://localhost:7115/ProductCategories';

constructor(private http: HttpClient) {}

getProductCategories(): Observable<ProductCategory[]> {

return this.http.get<ProductCategory[]>(this.apiUrl);

}

addProductCategory(productCategory: ProductCategory): Observable<any> {

return this.http.post(this.apiUrl, productCategory);

}

updateProductCategory(id: number, productCategory: ProductCategory): Observable<any> {

return this.http.put(`${this.apiUrl}/${id}`, productCategory);

}

deleteProductCategory(id: number): Observable<any> {

return this.http.delete(`${this.apiUrl}/${id}`);

}

}

export interface ProductCategory {

productCategoryID: number;

name: string;

products: Masteradd[];

}

**app.component.ts**

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

import { RouterOutlet } from '@angular/router';

import { RouterModule } from '@angular/router';

@Component({

selector: 'app-root',

imports: [RouterOutlet,RouterModule],

templateUrl: './app.component.html',

styleUrl: './app.component.css'

})

export class AppComponent {

title = 'my-angular-app';

}

**app.config.ts**

import { ApplicationConfig, provideZoneChangeDetection } from '@angular/core';

import { provideRouter } from '@angular/router';

import { routes } from './app.routes';

import { provideClientHydration, withEventReplay } from '@angular/platform-browser';

export const appConfig: ApplicationConfig = {

providers: [provideZoneChangeDetection({ eventCoalescing: true }), provideRouter(routes), provideClientHydration(withEventReplay())]

};

**app.routes.ts**

import { Routes } from '@angular/router';

import { MasteraddComponent } from './masteradd/masteradd.component';

export const routes: Routes = [

{ path: '', component: MasteraddComponent },

{ path: 'masteradd', component: MasteraddComponent }

];

**main.ts**

bootstrapApplication(AppComponent, {

providers: [provideRouter(routes), provideHttpClient()

//,provideReactiveForms()

,ReactiveFormsModule

]

});