

3416-003 Web Development Using Angular 8 and TypeScript Module 8: Create Group Project



Module 1: Section 1

What Is This Course About

Create main components for project

- Create the following directory:
- C:\workspace-UT-Angular8-SEPT-2020\Group-Project\
- Copy C:\ workspace-UT-Angular8-SEPT-2020
 \Session4\example1-bootstrap4-version1\bootstrap4 to C:\ workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1
- Run the following command:

C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project\Upper Project-Version1\bootstrap4>

ng g c home

ng g c addProduct

ng g c searchProduct



Create main components for project

```
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>ng g c home
CREATE src/app/home/home.component.html (23 bytes)
CREATE src/app/home/home.component.spec.ts (614 bytes)
REATE src/app/home/home.component.ts (261 bytes)
CREATE src/app/home/home.component.css (0 bytes)
UPDATE src/app/app.module.ts (467 bytes)
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>ng g c addProduct
REATE src/app/add-product/add-product.component.html (30 bytes)
CREATE src/app/add-product/add-product.component.spec.ts (657 bytes)
REATE src/app/add-product/add-product.component.ts (288 bytes)
CREATE src/app/add-product/add-product.component.css (0 bytes)
UPDATE src/app/app.module.ts (567 bytes)
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>ng g c searchProduct
REATE src/app/search-product/search-product.component.html (33 bytes)
REATE src/app/search-product/search-product.component.spec.ts (678 bytes)
REATE src/app/search-product/search-product.component.ts (300 bytes)
REATE src/app/search-product/search-product.component.css (0 bytes)
UPDATE src/app/app.module.ts (679 bytes)
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>
```



App.module.ts

- Run following:
- C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4>
 npm install @angular/http@latest or npm install @angular/http@7.2.15

```
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>npm install @angular/http@7.2.15
npm WARN optional SKIPPING OPTIONAL DEPENDENCY: fsevents@1.2.9 (node_modules\fsevents):
npm WARN notsup SKIPPING OPTIONAL DEPENDENCY: Unsupported platform for fsevents@1.2.9: wanted {"os":"darwin","arch":"any
"} (current: {"os":"win32","arch":"x64"})

+ @angular/http@7.2.15
added 1 package from 1 contributor and audited 43281 packages in 16.626s
found 9 vulnerabilities (2 moderate, 7 high)
    run `npm audit fix` to fix them, or `npm audit` for details

C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version1\bootstrap4>
```



Edit app-routing.module.ts

 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\app\approuting.module.ts

```
app.component.html
                                 TS app-routing.module.ts ×
       TS app-routing.module.ts ▶ 🖭 routes
app 🕨
                                                               Add 3 lines of code
       import { NgModule } from '@angular/core';
 1
       import { Routes, RouterModule } from '@angular/router';
  2
       import { HomeComponent } from './home/home.component';
  3
       import { AddProductComponent } from './add-product/add-product.component';
       import { SearchProductComponent } from './search-product/search-product.component';
                                                             Add this 4 lines of code
       const routes: Routes = [
 7
         { path: '', component: HomeComponent },
 8
         { path: 'home', component: HomeComponent },
 9
           path: 'addProduct', component: AddProductComponent },
10
           path: 'searchProduct', component: SearchProductComponent }
11
       ];
12
                                                     add {useHash: true}
13
       @NgModule({
14
         imports: [RouterModule.forRoot(routes, {useHash: true})],
15
         exports: [RouterModule]
16
17
       export class AppRoutingModule { }
18
19
20
```

Edit app.module.ts

 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\app\app.module.ts

```
TS app.module.ts ×
src > app > TS app.module.ts > * AppModule
  1
        import { BrowserModule } from '@angular/platform-browser';
  2
        import { NgModule } from '@angular/core';
  3
        import { AppRoutingModule } from './app-routing.module';
  5
        import { AppComponent } from './app.component';
        import { HomeComponent } from './home/home.component';
  6
        import { AddProductComponent } from './add-product/add-product.component'
  7
  8
        import { SearchProductComponent } from './search-product/search-product.c
        import { FormsModule } from '@angular/forms';
        import { HttpClientModule } from '@angular/common/http';
 10
 11
 12
        @NgModule({
 13
 14
          declarations: [
                                  Add these 4 lines
 15
            AppComponent,
 16
            HomeComponent,
            AddProductComponen
 17
            SearchProductCombonent
 18
 19
 20
          imports: [
            BrowserModule
 21
            AppRoutingModule
 22
            FormsModule!
 23
 24
            HttpClientModule,
 25
```

Edit app.component.html

 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\app\app.component.html

```
op 🕨 🗘 app.component.html 🕨 🥯 ul
     <!--The content below is only a placeholder and can be replaced.-->
    <div style="text-align:center">
      <h1>
        Welcome to {{ title }}!
      <img width="300" alt="Angular Logo" src="data:image/svg+xml;base64,PHN2ZyB4bWxucz0iaHR0c[</pre>
     </div>
     <h2>Here are some links to help you start: </h2>
     <l
                         Loading...
      <1i>>
        <h2><a target="_blank" rel="noopener" href="https://angular.io/tutorial">Tour of Heroes
      <1i>>
        <h2><a target=" blank" rel="noopener" href="https://angular.io/cli">CLI Documentation
      <1i>>
        <h2><a target=" blank" rel="noopener" href="https://blog.angular.io/">Angular blog</a>
       Delete all this code except "<router-outlet></router-outlet>
     <router-outlet></router-outlet>
```



Edit app.component.html

 Edit C:\workspace-UT-Angular7-May-2019\Group-Project\Group-Project-Version1\bootstrap4\src\app\app.component.html

```
app ▷ ⇔ app.component.html ▷ ❤ div.container ▷ ❤ div.row ▷ ❤ div.col-4
      <div class="container">
        <div class="row">
                                                  Add these new line of code
          <div class="col-4">
            <a href="#/home">Home</a>
          </div>
          <div class="col-4">
 6
            <a href="#/addProduct">Add Product</a>
          </div>
          <div class="col-4">
 9
            <a href="#/searchProduct">Search Product</a>
10
          </div>
11
        </div>
12
      </div>
13
      <router-outlet></router-outlet>
14
15
```

Edit app.component.html

- The 3 possible paths:
- http://localhost:4200/#/
- http://localhost:4200/#/addProduct
- http://localhost:4200/#/searchProduct



Index.html

- Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\index.html
- <script type='text/javascript'
 src='https://cdnjs.cloudflare.com/ajax/libs/Chart.js/2.7.2/Chart.js'></script>

search-product.component.ts

 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\app\searchproduct\search-product.component.ts

```
app > search-product > TS search-product.component.ts > T$ Search-product.component.ts
       import { Component, OnInit } from '@angular/core';
 1
 2
 3
    4
         selector: 'app-search-product',
         templateUrl: './search-product.component.html',
 5
         styleUrls: ['./search-product.component.css']
 6
 7
       export class SearchProductComponent implements OnInit {
 8
         productId: number;
 9
                                                         Add these 2 lines
         productDescriptionEnglish: string:
10
11
         constructor() { }
12
13
14
         ngOnInit() {
15
16
         search() {
17
18
19
20
```

search-product.component.html

Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4\src\app\search-product\search-product.component.html

```
<div class="container">
   <div class="row">
      <div class="col-12">
        <h1>Search Products</h1>
      </div>
   </div>
   <div class="row">
     <div class="col-12">
       <input type="text" name="productId" placeholder="Product ID" class="form-control"</pre>
[(ngModel)]="productId">
     </div>
     <div class="col-12">
       <input type="text" name="productDescriptionEnglish" placeholder="Product Description" class="form-</pre>
control" [(ngModel)]="productDescriptionEnglish">
     </div>
     <div class="col-12">
      <br/>
      <input (click)="search()" type="submit" id="submit" class="Ybutton" name="submit" value="Search">
     </div>
   </div>
</div>
```



- Copy C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version1\bootstrap4 to C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4
- C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4>ng g service Product

```
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version2\bootstrap4>ng g service Product
CREATE src/app/product.service.spec.ts (338 bytes)
CREATE src/app/product.service.ts (136 bytes)
```



search-product.component.ts

30

});

• Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4\src\app\search-product\search-product.component.ts

```
■---+----1----+----2----+----3----+----4----+----5----+----6----+----7----+----8----
import { Component, OnInit } from '@angular/core';
   import { ProductService } from '../product.service';
 3
 4 @Component({
     selector: 'app-search-product',
 6 templateUrl: './search-product.component.html',
      styleUrls: ['./search-product.component.css']
 8 1)
   export class SearchProductComponent implements OnInit {
10
     productId: string;
     productDescriptionEnglish: string;
11
12
     message: string;
13
    // let result: Array<string>;
14
15
      constructor(private productService: ProductService) { }
16
17
      ngOnInit() {
18
19
20
      search() {
21
22
        this.productService.getProducts().subscribe((res: any) => {
23
24
          console.log(res);
25
26
        }, (err: any) => {
27
            console.log(err.error.status);
28
29
```

Edit environment.ts

 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4\src\environments\environment.ts

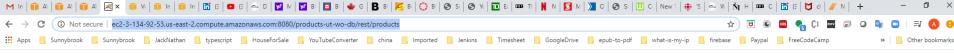
Add this line of code

```
export const environment = {
  production: false,
  baseUrl: 'http://localhost:8080/products-ut-wo-db/rest/'
};
```



Edit environment.ts

- AWS:
- http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/products-ut-wodb/rest/products



[("id":1,"productDescriptionEnglish":"Chicken Noodle Soup","productSescriptionFrench":"French Campbell Chicken Noodle Soup","productType":"Consumer or Base","additionalProductIdentification":"It is a soup","targetMarket":"Cansda","productDescriptionFrench":"French Campbell Chicken Noodle Soup","productType":"Consumer or Base","additionalProductIdentification":"It is a soup","targetMarket":"Consumer or Base","additionalProductIdentification":"It is a cookie","targetMarket":"Canada","productTungeUrl:"http://www.mrsfields.com","Status":"Active"),

{'id":3, "productDescriptionEnglish":"Potato Chips", "productTungeUrl:"http://www.lays.com", "status":"Active"),

chip", "targetMarket":"Canada", "productTungeUrl:"http://www.lays.com", "status":"Active"),

chip", "targetMarket":"Canada", "productTungeUrl":"http://www.lays.com", "status":"Active")}



Edit environment.ts

- AWS:
- http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/products-ut-wodb/rest/products

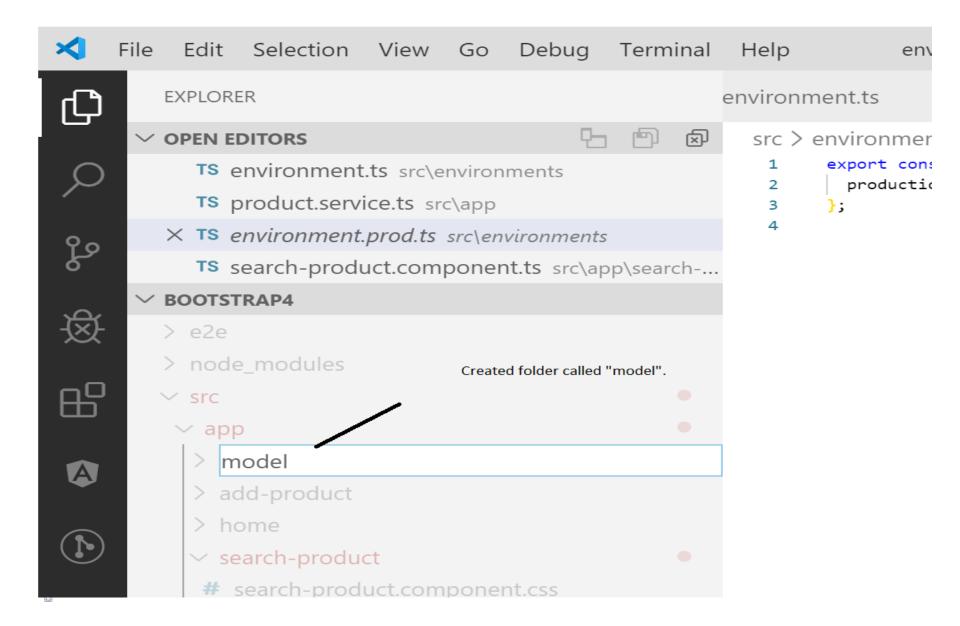


Create folder called model

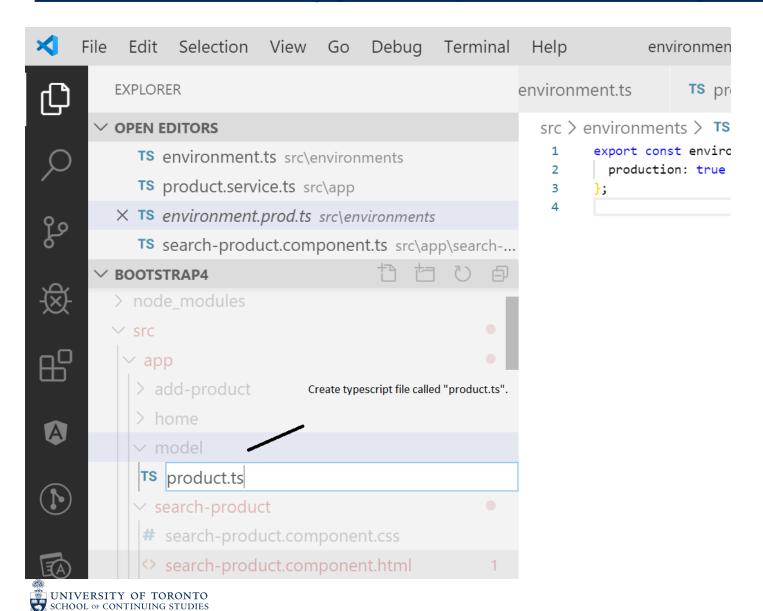
4	File	Edit	Selection	View	Go	Debug	Terminal	Help		product.service.ts - bootstrap	4 - Visual S		
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_	V (✓ OPEN EDITORS					Nev	New Folder					
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, -		X TS product.service.ts src\app						en in Ter		mmon/htt ments/er			
وم		TS app.component.ts src\app TS search-product.component.ts src\app					Mo	ve Types	script		1		
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y 数 H		✓ BOOTSTRAP4 ✓ noae moaules					Find	d in Fold	er	Shift+Alt+F			
	✓ STC Right click "app" and choose "New Folder".					d choose "Nev	Cut			Ctrl+X	+ 'produ lient) {		
٥-		∨ app						у		Ctrl+C			
ъ́		> ad	> add-product > home			Pas	Paste		Ctrl+V	apiURL}`			
		> h					Cor	by Path		Shift+Alt+C Ctrl+K Ctrl+Shift+C			
A		✓ search-prod						Copy Relative Path					
			# search-product.compone			·							
$\widehat{\mathbf{P}}$			search-prod		•		Ren	ame		F2			
			TS search-product.component.spec.ts			Del	ete		Delete				
		18	search-prod	uct.component.ts			٨٥٨	Angular Caparata a companant					



Create folder called model



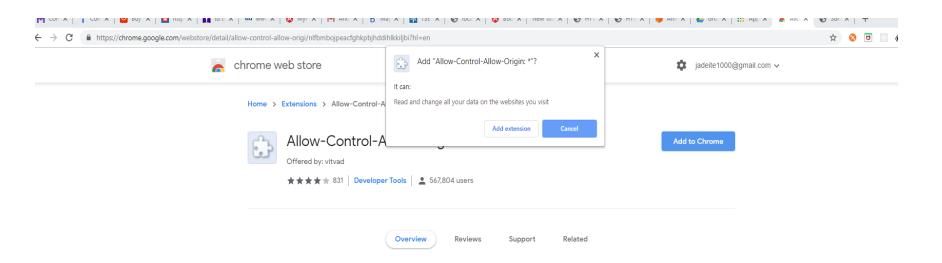
Create model typescript file called product.ts



Create model typescript file called product.ts

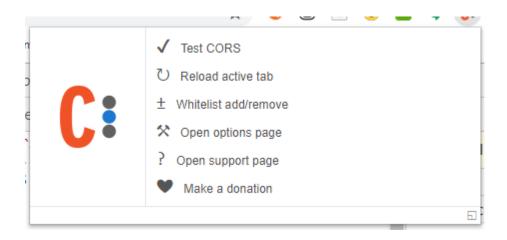
```
export class Product {
 constructor(
  public id: number,
  public productDescriptionEnglish: string,
  public productDescriptionFrench: string,
  public brandNameEnglish: string,
  public brandNameFrench: string,
  public productType: string,
  public additionalProductIdentification: string,
  public targetMarket: string,
  public productImageUrl: string,
  public status: string
```

- Installed "Access Control Allow Origin":
- https://chrome.google.com/webstore/detail/allow-corsaccess-control/lhobafahddgcelffkeicbaginigeejlf?hl=en





- Installed "Access Control Allow Origin":
- https://chrome.google.com/webstore/detail/allow-corsaccess-control/lhobafahddgcelffkeicbaginigeejlf?hl=en
- Click on it to make sure it is red.





 Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4\src\app\product.service.ts

```
Search Document Project Tools Window Help
         +----1-----5-----6----+
     import {    Injectable } from '@angular/core';
     import { HttpClient } from '@angular/common/http';
     import { environment } from '../environments/environment';
             Product } from './model/product';
     @Injectable({
      providedIn: 'root'
     export class ProductService
      baseUrl: string = environment.baseUrl;
       constructor (private httpClient: HttpClient)
  11
 12
 13
      public getProducts()
         return this.httpClient.get(`${this.baseUrl+ 'products'}
 14
 15
 16
```



Edit product.service.ts

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { environment } from '../environments/environment';
import { Product } from './model/product';
@Injectable({
 providedIn: 'root'
export class ProductService {
 baseUrl: string = environment.baseUrl;
 constructor(private httpClient: HttpClient) { }
 public getProducts() {
  return this.httpClient.get(`${this.baseUrl+ 'products'}`);
```

search-product.component.ts

```
import { Component, OnInit } from '@angular/core';
import { ProductService } from '../product.service';
import { Product } from '../model/product';
@Component({
 selector: 'app-search-product',
templateUrl: './search-product.component.html',
 styleUrls: ['./search-product.component.css']
export class SearchProductComponent implements OnInit {
 productld: number;
 productDescriptionEnglish: string;
 products: Product[];
 constructor(private productService: ProductService) { }
 ngOnInit() {
 search() {
  this.productService.getProducts().subscribe((data: any) => {
   console.log(data);
   this.products = <Product[]>data;
  }, (err: any) => {
     console.log(err.error.status);
  });
```



search-product.component.html

```
<div class="container">
<div class="row">
  <div class="col-12">
   <h1>Search Products</h1>
  </div>
</div>
<div class="row">
 <div class="col-12">
   <input type="text" name="productId" placeholder="Product ID" class="form-control" [(ngModel)]="productId">
 <div class="col-12">
   <input type="text" name="productDescriptionEnglish" placeholder="Product Description" class="form-control" [(ngModel)]="productDescriptionEnglish">
| (ngModel)]="productDescriptionEnglish" |
 <div class="col-12">
  <br/>hr/>
  <input (click)="search()" type="submit" id="submit" class="Ybutton" name="submit" value="Search">
</div>
<!--Begin Result-->
<thead class="thead-dark">
   #
   Description English
   Description French
   BrandName English
   BrandName French
   Type
   Product ID
   Target Market
   Image Url
   Status
  </thead>
 {{prod.id}}
   {{prod.productDescriptionEnglish}}
   {{prod.productDescriptionFrench}}
   {{prod.brandNameEnglish}}
   {{prod.brandNameFrench}}
   {{prod.productType}}
   {{prod.additionalProductIdentification}}
   {{prod.targetMarket}}
   {{prod.productImageUrl}}
   {{prod.status}}
  <h5 *nglf="products?.length == 0">No records available!</h5>
<!--End Result-->
</div>
```



Search Products Browser Result

Home Add Product Search Product

Search Products

Product ID

Product Description

Search



When click "Search" button got the following result

#	Description English	Description French	BrandName English	BrandName French	Туре	Product ID	Target Market	lmage Url	Status
1	Chicken Noodle Soup	French Chicken Noodle Soup	Campbell Chicken Noodle Soup	French Campbell Chicken Noodle Soup	Consumer or Base	It is a soup	Canada	http://wwww.campbellSoup.com	Active
2	Chocolate Chip Cookie	French Chocolate Chip Cookie	Mrs. Fields	French Mrs. Fields	Consumer or Base	It is a cookie	Canada	http://www.mrsfields.com	Active
3	Potato Chips	French Potato Chips	Lays	French Lays	Consumer or Base	It is a potato chip	Canada	http://www.lays.com	Active



Setup Web Service products-ut-wo-db

- Copy C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version2\bootstrap4 to C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version3
- Edit C:\workspace-UT-Angular8-SEPT-2020 \Group-Project\Group-Project-Version3\bootstrap4\src\app\addproduct\add-product.component.html



Edit add-product.component.html

```
<div class="container">
  <div class="row">
        <div class="col-12">
             <h1>Add Product</h1>
        </div>
  </div>
</div>
<div class="container">
  <div class="row">
     <div class="col-lg-12">
        <form (ngSubmit)="onSubmit(f)" #f="ngForm">
           <div id="user-data">
                 <div class="row">
                           <div class="col-lq-6">
                              <label>Product Description (English)</label>
                              <input type="text" id="productDescriptionEnglish" name="productDescriptionEnglish" class="form-control" [(ngModel)]="product.productDescriptionEnglish" class="form-control" required #productDescriptionEnglish="ngModel">
                              <span class="help-block" *nglf="(submitted && !productDescriptionEnglish.valid) ||(!productDescriptionEnglish.valid && productDescriptionEnglish.touched)">Product Description (English) is required
                            </div>
                            <div class="col-lq-6">
                              <label>Production Description (French)</label>
                              <input type="text" id="productDescriptionFrench" name="productDescriptionFrench" class="form-control" [(ngModel)]="product.productDescriptionFrench" required #productDescriptionFrench" name="productDescriptionFrench" name=
                            </div>
                  </div>
                  <div class="row">
                         <div class="col-lg-6">
                           <label>Brand Name (English)</label>
                            <input type="text" id="brandNameEnglish" name="brandNameEnglish" class="form-control" [(ngModel)]="product.brandNameEnglish" required #brandNameEnglish" name="brandNameEnglish" name="brandNameEnglis
                         </div>
                          <div class="col-lg-6">
                              <label>Brand Name (French)</label>
                              <input type="text" id="brandNameFrench" name="brandNameFrench" class="form-control" [(ngModel)]="product.brandNameFrench" class="form-control" required #brandNameFrench="ngModel">
                         </div>
                  </div>
                  <div class="row">
                         <div class="col-lg-6">
                            <label>Target Market</label>
                            <select id="targetMarket" name="targetMarket" [(ngModel)]="product.targetMarket" class="form-control" required #targetMarket="ngModel">
                              <option value=""></option>
                              <option value="Canada">Canada</option>
                               <option value="US">US</option>
                            </select>
                          </div>
                         <div class="col-lg-6">
                              <label>Status</label>
                               <select id="status" name="status" [(ngModel)]="product.status" class="form-control" required #status="ngModel">
                                     <option value=""></option>
                                     <option value="Active">Active</option>
                                     <option value="Draft">Draft</option>
                                </select>
                         </div>
                  </div>
```



Edit add-product.component.html

```
<div class="row">
                         <div class="col-lq-6">
                            <label>Product Type</label>
                            <select id="productType" name="productType" [(ngModel)]="product.productType" class="form-control" required #productType="ngModel">
                               <option value=""></option>
                                <option value="Pallet">Pallet</option>
                                <option value="Case">Case</option>
                                <option value="Consumer or Base">Consumer or Base
                            </select>
                         </div>
                         <div class="col-lg-6">
                               <label>Product Image (url)</label>
                                <input type="text" id="productImageUrl" name="productImageUrl" class="form-control" [(ngModel)]="product.productImageUrl" class="form-control" required
#productImageUrl="ngModel">
                         </div>
                  </div>
                  <div class="row">
                         <div class="col-lq-6">
                            <label>Product Identification</label>
                            <input type="text" id="additionalProductIdentification" name="additionalProductIdentification" class="form-control" [(ngModel)]="product.additionalProductIdentification" name="additionalProductIdentification" name="additionalProductIdentification name="additionalProdu
class="form-control" required #additionalProductIdentification="ngModel">
                         </div>
                  </div>
                  <br/>
                  <div class="row">
                         <div class="col-lg-6">
                               <button class="btn btn-primary" type="submit">Submit</button>
                                <span class="message">{{msg}}</span>
                         </div>
                  </div>
           </div>
        </form>
      </div>
  </div>
</div>
```



Edit product.service.ts

```
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { environment } from '../environments/environment';
import { Product } from './model/product';
@Injectable({
 providedIn: 'root'
})
export class ProductService {
 baseUrl: string = environment.baseUrl;
 constructor(private httpClient: HttpClient) { }
 public getProducts() {
  return this.httpClient.get(`${this.baseUrl+ '/products'}`);
 create(product: Product) {
               //http://localhost:8080/products-ut-wo-db/rest/product/create
  this.httpClient.post<Product>(`${this.baseUrl}/product/create`, product).subscribe(data => {
   console.log(data);
  error =>
  console.log('Could not create product.'));
```



Edit add-product.component.ts

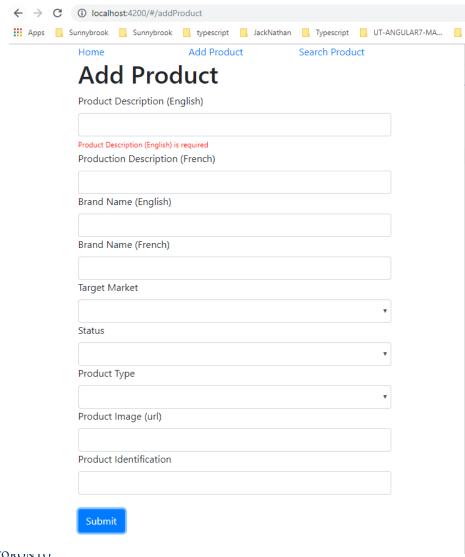
```
import { Component, OnInit } from '@angular/core';
 import { HttpClient } from '@angular/common/http';
 import { NgForm } from '@angular/forms';
 import { Router, ActivatedRoute } from '@angular/router';
 import { ProductService } from '../product.service';
 import { Product } from '../model/product';
 @Component({
 selector: 'app-add-product',
 templateUrl: './add-product.component.html',
 styleUrls: ['./add-product.component.css']
 })
 export class AddProductComponent implements OnInit {
 public msg: string;
 public submitted: boolean = false;
  public product : Product = {
   id:null,
   productDescriptionEnglish:null,
   productDescriptionFrench:null,
   brandNameEnglish:null,
   brandNameFrench:null,
   productType:null,
   additionalProductIdentification:null,
   targetMarket:null,
   productImageUrl:null,
   status:null };
   public prodld: number;
  constructor(
   private http: HttpClient,
   private router: Router,
   private route: ActivatedRoute,
   private productService: ProductService
   ) {
  ngOnInit() {
  onSubmit(myform: NgForm) {
   this.submitted = true:
   if (myform.valid)
    if(confirm('You are about to submit this entry.\n Are you sure?')) {
     this.productService.create(myform.value);
     this.msg = "";
     this.submitted = false;
     myform.reset();
    else
     this.msg = "Entry is not completed!";
UNIVERSITY OF TORONTO SCHOOL OF CONTINUING STUDIES
```

Edit add-product.component.css

```
.help-block{
   font-size: 12px;
   color: red;
}
```



Add Product Error Message





Use TcpMonitor for Proxy

- Copy C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version3\bootstrap4 to C:\ workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version4
- Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version4\bootstrap4\src\environments\environment.ts file:

```
export const environment = {
  production: false,
  //baseUrl: 'http://localhost:8080/products-ut-wo-db/rest'
  baseUrl: 'http://localhost:8081/products-ut-wo-db/rest'
};
```

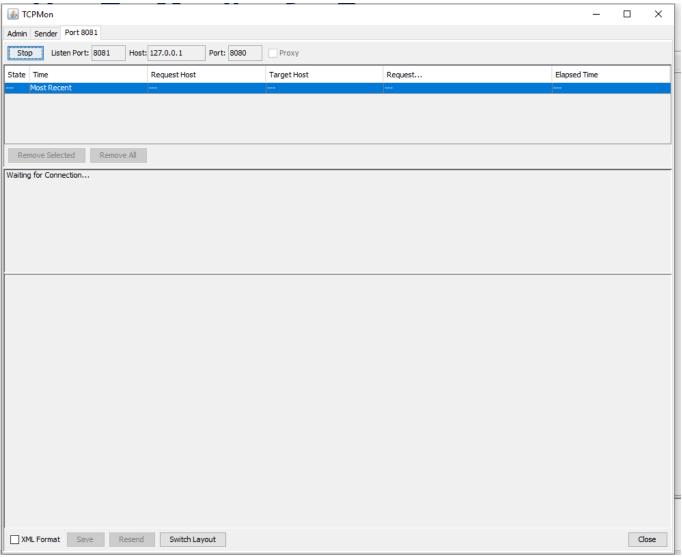


Use TcpMonitor for Proxy

Admin Sender	
Create a new TCPMon	
Listen Port # 8081	
Act as a	
Listener	
Target Hostname 127.0.0.1	
Target Port # 8080	
○ Proxy	
- Options -	
☐ HTTP Proxy Support	
Hostname	
Port #	
Simulate Slow Connection	
Bytes per Pause	
Delay in Milliseconds	
Add Click "Add".	
Add Click "Add".	

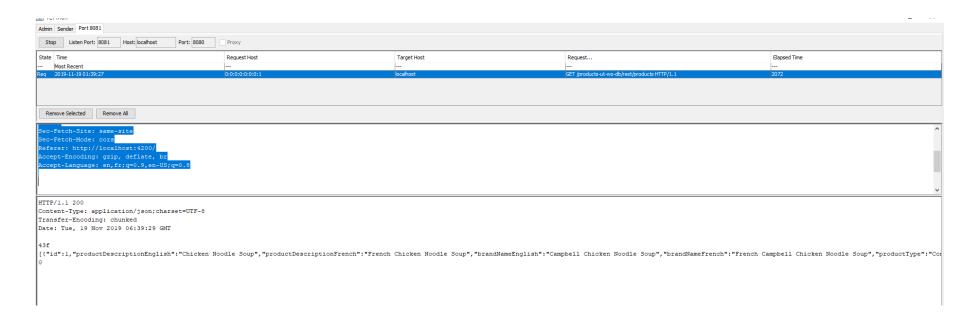


Use TcpMonitor for Proxy





Use TcpMonitor for Proxy(Search)





Use TcpMonitor for Proxy(Search Request)

GET /products-ut-wo-db/rest/products HTTP/1.1

Host: localhost:8081

Connection: keep-alive

Accept: application/json, text/plain, */*

Origin: http://localhost:4200

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)

AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.97

Safari/537.36

DNT: 1

Sec-Fetch-Site: same-site

Sec-Fetch-Mode: cors

Referer: http://localhost:4200/

Accept-Encoding: gzip, deflate, br

Accept-Language: en,fr;q=0.9,en-US;q=0.8



Use TcpMonitor for Proxy(Search Response)

HTTP/1.1 200

Content-Type: application/json;charset=UTF-8

Transfer-Encoding: chunked

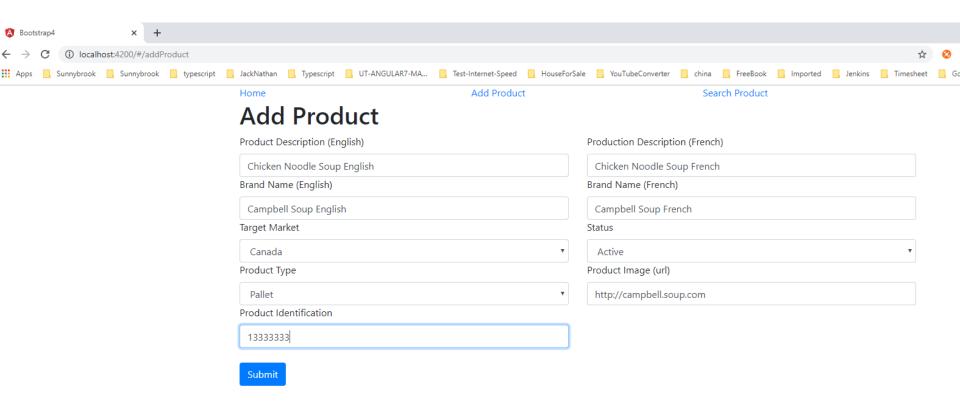
Date: Tue, 19 Nov 2019 06:39:29 GMT

43f

[{"id":1,"productDescriptionEnglish":"Chicken Noodle Soup","productDescriptionFrench":"French Chicken Noodle Soup","brandNameEnglish":"Campbell Chicken Noodle Soup","productType":"Consumer or Base","additionalProductIdentification":"It is a soup","targetMarket":"Canada","productImageUrl":"http://wwww.campbellSoup.com","status":"Active "},{"id":2,"productDescriptionEnglish":"Chocolate Chip Cookie","productDescriptionFrench":"French Chocolate Chip Cookie","brandNameEnglish":"Mrs. Fields","brandNameFrench":"French Mrs. Fields","productType":"Consumer or Base", "additionalProductIdentification":"It is a cookie","targetMarket":"Canada","productImageUrl":"http://www.mrsfields.com","status":"Active"},{"id ":3,"productDescriptionEnglish":"Potato Chips","productDescriptionFrench":"French Potato Chips","brandNameEnglish":"Lays","brandNameFrench":"French Lays","productType":"Consumer or Base","additionalProductIdentification":"It is a potato chip","targetMarket":"Canada","productImageUrl":"http://www.lays.com","status":"Active"}]

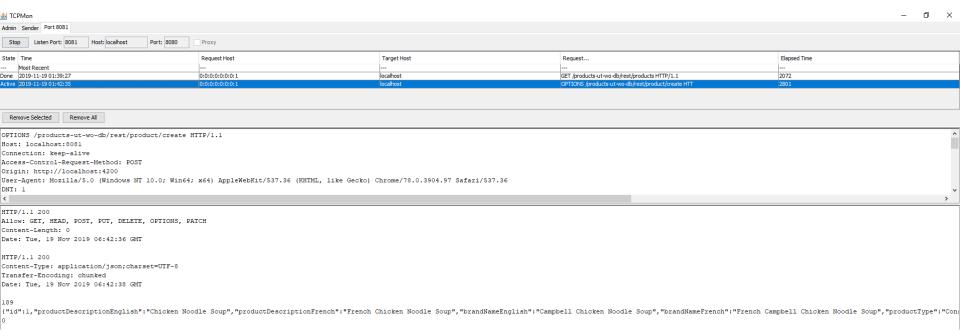


Use TcpMonitor for Proxy(Add Product)





Use TcpMonitor for Proxy(Add Product)





Use TcpMonitor for Proxy(Add Product Request)

OPTIONS /products-ut-wo-db/rest/product/create HTTP/1.1

Host: localhost:8081 Connection: keep-alive

Access-Control-Request-Method: POST

Origin: http://localhost:4200

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.97 Safari/537.36

DNT: 1

Access-Control-Request-Headers: content-type

Accept: */*

Sec-Fetch-Site: same-site Sec-Fetch-Mode: cors

Referer: http://localhost:4200/ Accept-Encoding: gzip, deflate, br

Accept-Language: en,fr;q=0.9,en-US;q=0.8

POST /products-ut-wo-db/rest/product/create HTTP/1.1

Host: localhost:8081 Connection: keep-alive Content-Length: 354

Accept: application/json, text/plain, */*

Origin: http://localhost:4200

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/78.0.3904.97 Safari/537.36

DNT: 1

Content-Type: application/json Sec-Fetch-Site: same-site Sec-Fetch-Mode: cors Referer: http://localhost:4200/

Referer: http://localhost:4200/ Accept-Encoding: gzip, deflate, br

Accept-Language: en,fr;q=0.9,en-US;q=0.8

{"productDescriptionEnglish":"Chicken Noodle Soup English", "productDescriptionFrench": "Chicken Noodle Soup

French", "brandNameEnglish": "Campbell Soup English", "brandNameFrench": "Campbell Soup

French", "targetMarket": "Canada", "status": "Active", "productType": "Pallet", "productImageUrl": "http://campbell.soup.com", "additionalProductIdentification":

"133333333"}



<u>Use TcpMonitor for Proxy(Add Product Response</u>

HTTP/1.1 200

Allow: GET, HEAD, POST, PUT, DELETE, OPTIONS, PATCH

Content-Length: 0

Date: Tue, 19 Nov 2019 06:42:36 GMT

HTTP/1.1 200

Content-Type: application/json;charset=UTF-8

Transfer-Encoding: chunked

Date: Tue, 19 Nov 2019 06:42:38 GMT

189

```
{"id":1,"productDescriptionEnglish":"Chicken Noodle
Soup","productDescriptionFrench":"French Chicken Noodle
Soup","brandNameEnglish":"Campbell Chicken Noodle
Soup","brandNameFrench":"French Campbell Chicken Noodle
Soup","productType":"Consumer or Base","additionalProductIdentification":"It is a
soup","targetMarket":"Canada","productImageUrl":"http://wwww.campbellSoup.com","sta
tus":"Active"}
```



Production Deployment

- Copy C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version4\bootstrap4 to C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version5
- Available web service:

http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/products-ut-wodb/rest/products



Environment.ts

- Edit C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version5\bootstrap4\src\environments\environment.prod.ts
- baseUrl: 'http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/products-ut-wo-db/rest/'

```
Is - [C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Group-Project\Gro
```



Production Build

 C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version5\bootstrap4\ng build --prod -base-href.

```
C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version5\bootstrap4>ng build --prod --base-href

Date: 2019-12-04T04:28:42.779Z

Hash: 9e9deef3ce9594c009c1

Time: 41185ms
   chunk {0} runtime.26209474bfa8dc87a77c.js (runtime) 1.41 kB [entry] [rendered]
   chunk {1} es2015-polyfills.e17997aea7f522b8d49d.js (es2015-polyfills) 56.6 kB [initial] [rendered]
   chunk {2} main.cfd5cdcfad59c90b1458.js (main) 332 kB [initial] [rendered]
   chunk {3} polyfills.8bbb231b43165d65d357.js (polyfills) 41 kB [initial] [rendered]
   chunk {4} styles.3f900ab564f87f7d4272.css (styles) 124 kB [initial] [rendered]
   chunk {scripts} scripts.d56c3d23fa0796bd398b.js (scripts) 136 kB [entry] [rendered]

C:\workspace-UT-Angular7-Sept-2019\Group-Project\Group-Project-Version5\bootstrap4>
```

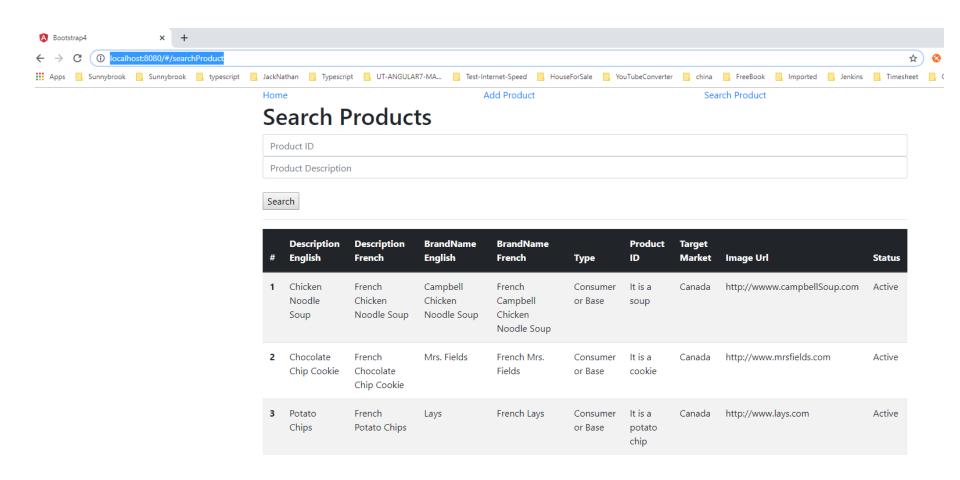


Deploy to Tomcat 8.5

- Copy files from C:\workspace-UT-Angular8-SEPT-2020\Group-Project\Group-Project-Version5\bootstrap4\dist\bootstrap4 to C:\Tomcat85\webapps\ROOT
- http://localhost:8080/#/searchProduct



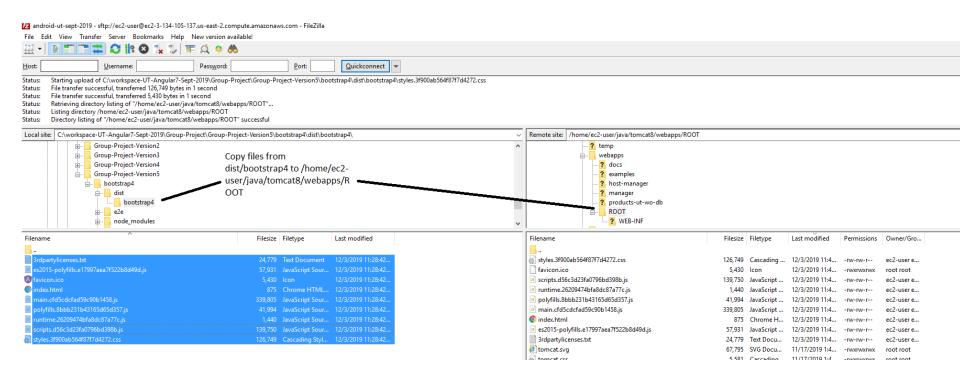
Deploy to Tomcat 8.5





Deploy to AWS

 http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/





Deploy to AWS

 http://ec2-52-14-130-217.us-east-2.compute.amazonaws.com:8080/#/searchProduct

