

Docker Swarm :-

Code :-

Maven Spring Code :- {backend}

application.properties :-

server.port=9090

ProductBackendApplication.java:-

```
package com;
```

```
import org.springframework.boot.SpringApplication;
```

```
import org.springframework.boot.autoconfigure.SpringBootApplication;
```

```
@SpringBootApplication(scanBasePackages = "com")
```

```
public class ProductBackendApplication {
```

```
    public static void main(String[] args) {
```

```
        SpringApplication.run(ProductBackendApplication.class, args);
```

```
        System.out.println("Server Started ....");
```

```
    }
```

```
}
```

ProductController.java:-

```
package com.controller;
```

```
import java.util.ArrayList;
```

```
import java.util.List;
```

```
import org.springframework.http.MediaType;
```

```
import org.springframework.web.bind.annotation.CrossOrigin;
```

```
import org.springframework.web.bind.annotation.GetMapping;
```

```
import org.springframework.web.bind.annotation.RequestMapping;
```

```
import org.springframework.web.bind.annotation.RestController;
```

```
import com.bean.Product;
```

```
@RestController
```

```
@RequestMapping("product")
```

```
@CrossOrigin //It help to enable the resources
```

```
public class ProductController {
```

```
    @GetMapping(value = "allProduct", produces =  
    MediaType.APPLICATION_JSON_VALUE)
```

```
    public List<Product> getAllProduct(){
```

```
        List<Product> listofProduct = new ArrayList<Product>();
```

```
        listofProduct.add(new Product(1, "TV", 20000,
```

```
"  
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```

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```

        return listOfProduct;
    }
}

```

```
package com.bean;

public class Product {
    private int pid;
    private String pname;
    private float price;
    private String url;
    public int getPid() {
        return pid;
    }
    public void setPid(int pid) {
        this.pid = pid;
    }
    public String getPname() {
        return pname;
    }
    public void setName(String pname) {
        this.pname = pname;
    }
    public float getPrice() {
        return price;
    }
    public void setPrice(float price) {
        this.price = price;
    }
    public String getUrl() {
        return url;
    }
    public void setUrl(String url) {
        this.url = url;
    }
}
```



```

@Override
public String toString() {
    return "Product [pid=" + pid + ", pname=" + pname + ",
price=" + price + ", url=" + url + "]";
}
public Product(int pid, String pname, float price, String url) {
    super();
    this.pid = pid;
    this.pname = pname;
    this.price = price;
    this.url = url;
}

}

```

Mvn package

Create a Spring Maven Docker Image command :-

And add a Dockerfile code :-

sudo docker build -t product-backend-app . -f Dockerfile

//ubuntu command

docker build -t product-backend-app . -f Dockerfile

Angular Code :- {Frontend]

ng create a

app.component.html :-

<app-product></app-product>

product.component.ts :-

```
import { Component, OnInit } from '@angular/core';
import { Product } from '../product';
import { ProductService } from '../product.service';
```

```
@Component({
  selector: 'app-product',
  templateUrl: './product.component.html',
  styleUrls: ['./product.component.css']
})
export class ProductComponent implements OnInit {
```

```
  products:Array<Product>=[];
```

```
  constructor(public ps:ProductService) { }
```

```
  ngOnInit(): void {
    this.loadAllProduct();
  }
```

```
  loadAllProduct(){
    this.ps.loadAllProduct().subscribe({
      next:(result:any)=>this.products = result,
      error:(error:any)=>console.log(error),
      complete:()=>console.log("completed"),
    })
  }
```

```
}
```

```
product.component.html :-
```

```
import { Component, OnInit } from '@angular/core';
```

```
import { Product } from '../product';
```

```
import { ProductService } from '../product.service';
```

```
@Component({
```

```
  selector: 'app-product',
```

```
  templateUrl: './product.component.html',
```

```
  styleUrls: ['./product.component.css']
```

```
})
```

```
export class ProductComponent implements OnInit {
```

```
  products:Array<Product>=[];
```

```
  constructor(public ps:ProductService) { }
```

```
  ngOnInit(): void {
```

```
    this.loadAllProduct();
```

```
  }
```

```
  loadAllProduct(){
```

```
    this.ps.loadAllProduct().subscribe({
```

```
      next:(result:any)=>this.products = result,
```

```
      error:(error:any)=>console.log(error),
```

```
    complete:()=>console.log("completed"),
  })
}
```

Product.ts :-

```
export class Product {
  constructor(public pid:number,
    public pname:string,
    public price:number,
    public url:string
  ){}
}
```

Product.service.ts :-

```
import { HttpClient, HttpClientModule } from '@angular/common/http';
import { Injectable } from '@angular/core';
import { Observable } from 'rxjs';
import { Product } from './product';

@Injectable({
  providedIn: 'root'
})
export class ProductService {

  constructor(public http:HttpClient) { }

  loadAllProduct():Observable<Product[]>{
    return
    this.http.get<Product[]>("http://localhost:9090/product/allProduct");
  }
}
```

App.module.ts :-

```
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';

import { AppRoutingModuleModule } from './app-routing.module';
```

```

import { AppComponent } from './app.component';
import { ProductComponent } from './product/product.component';
import { HttpClientModule } from '@angular/common/http'

@NgModule({
  declarations: [
    AppComponent,
    ProductComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule, HttpClientModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }

```

```

}

```

ng build

Command to create a image :-

Dockerfile code :-

FROM nginx

COPY dist/product-frontend/ /usr/share/nginx/html

docker build -t product-frontend-app . -f Dockerfile

Create a Docker compose to create a Docker Swarm ,and docker interconnected :-

docker-compose.yml Code :-

version: "3"

services:

product-backend:

image: product-backend-app

ports:

- "9191:9191"

networks:

- product-management-system

product-frontend:

image: product-frontend-app

ports:

- "80:80"

depends_on:

- product-backend

networks:

- product-management-system

networks:

product-management-system

Start Docker -compose :-

docker-compose up

SS:-

PId	PName	Price	Url
1	TV	850000	A Sony Smart TV displaying a landscape image with the Sony logo at the top and 'SMART TV X-Reality ClearAudio+' at the bottom.
2	Computer	350000	A Dell desktop computer system including a monitor, keyboard, and mouse. The text 'dell.com 150704' is visible at the bottom.
3	Laptop	970000	A laptop with a screen showing a close-up of orange flowers.
			A black rectangular object, possibly a tablet or a small monitor, lying flat.