**Routing example with service**

**create components**

**ng g c componentname**

**1.ProductDetail 2 Product-list 3 PageNotFound 4)Home**

**--appmodule.ts-----------------------------------------------------------------------------**

**import { Component, NgModule } from '@angular/core';**

**import { BrowserModule } from '@angular/platform-browser';**

**import { AppRoutingModule } from './app-routing.module';**

**import { Router, RouterModule, Routes } from '@angular/router';**

**import { AppComponent } from './app.component';**

**import { ProductDetailComponent } from './product-detail/product-detail.component';**

**import { ProductListComponent } from './product-list/product-list.component';**

**import { HomeComponent } from './home/home.component';**

**import { PageNotFoundComponent } from './page-not-found/page-not-found.component';**

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

**export const routes: Routes = [**

**{path:'products',component:ProductListComponent},**

**{path:'proudct/:id',component:ProductDetailComponent},**

**{**

**path:'Home',component:HomeComponent**

**},{path:'',redirectTo:'Home',pathMatch:'full'},**

**{path:'\*\*',component:PageNotFoundComponent}]**

**@NgModule({**

**declarations: [**

**AppComponent,**

**ProductDetailComponent,**

**ProductListComponent,**

**PageNotFoundComponent**

**],**

**imports: [**

**BrowserModule,**

**AppRoutingModule,**

**RouterModule.forRoot(routes),**

**],**

**providers: [ ProductService],**

**bootstrap: [AppComponent]**

**})**

**export class AppModule { }**

**==================================================================================**

**product.ts**

**export class Product {**

**productId:number ;**

**productname: string ;**

**price:number;**

**quantity:Number;**

**imageurl:string="";**

**constructor(productID:number,imageurl:string , name: string ,quantity:number, price:number) {**

**this.productId=productID,**

**this.productname=name;**

**this.price=price;**

**this.quantity=quantity;**

**imageurl:String;**

**}**

**}**

**--------------------------------------------**

**service.ts**

**import { Injectable } from '@angular/core';**

**@Injectable({**

**providedIn: 'root'**

**})**

**export class ProductService {**

**constructor() { }**

**Products:any=[];**

**getAllProducts():any**

**{**

**let products=[{**

**"productId":100,**

**"productname":'mobile',**

**"price":50000,**

**"quantity":1,**

**"imageurl":"C:\\Users\\dell\\Desktop\\images\\redmi.jpg"**

**},{**

**"productId":200,**

**"productname":'mobile',**

**"price":50000,**

**"quantity":1,**

**"imageurl":"C:\\Users\\dell\\Desktop\\images\\"**

**}]**

**return products;**

**}**

**}**

**--------------------------------------------------**

**product-list.ts**

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

**import { Product } from '../Products';**

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

**@Component({**

**selector: 'app-product-list',**

**templateUrl: './product-list.component.html',**

**styleUrls: ['./product-list.component.css']**

**})**

**export class ProductListComponent {**

**columnspan:number=2;**

**products:Product[]=[];**

**//iinject into constructor a service reference**

**constructor(private objps:ProductService)**

**{**

**this.products=objps.getAllProducts();**

**}**

**}**

**---------------------------------------------**

**produc-list.html**

**<div>**

**<p>product-list works!</p>**

**<table>**

**<thead>**

**<tr border:1px red>**

**<th>ProductID</th>**

**<th>productname</th>**

**<th>Price</th>**

**<th>Quanity</th>**

**<th>image</th>**

**</tr>**

**</thead>**

**<tr \*ngFor="let product of products">**

**<td>{{product.productId}}</td>**

**<td>{{product.productname}}</td>**

**<td>{{product.price}}</td>**

**<td>{{product.quantity}}</td>**

**<td><img [src]="product.imageurl" height="100" width="100"></td>**

**</tr>**

**</table>**

**</div>**

**--------------------------------------------------------------------------------------------**

**app.component.html**

**<div>**

**<ul>**

**<li ><a [routerLink]="['/Home']">Home</a></li>**

**<li ><a [routerLink]="['/Product-list']">Product-list</a></li>**

**<li ><a [routerLink]="['/Product=detail']">Product-details</a></li>**

**<li ><a [routerLink]="['/PageNotFound']">PageNotFound</a></li>**

**</ul>**

**</div>**

**<router-outlet></router-outlet>**

**<app-product-list><app-product-list>**