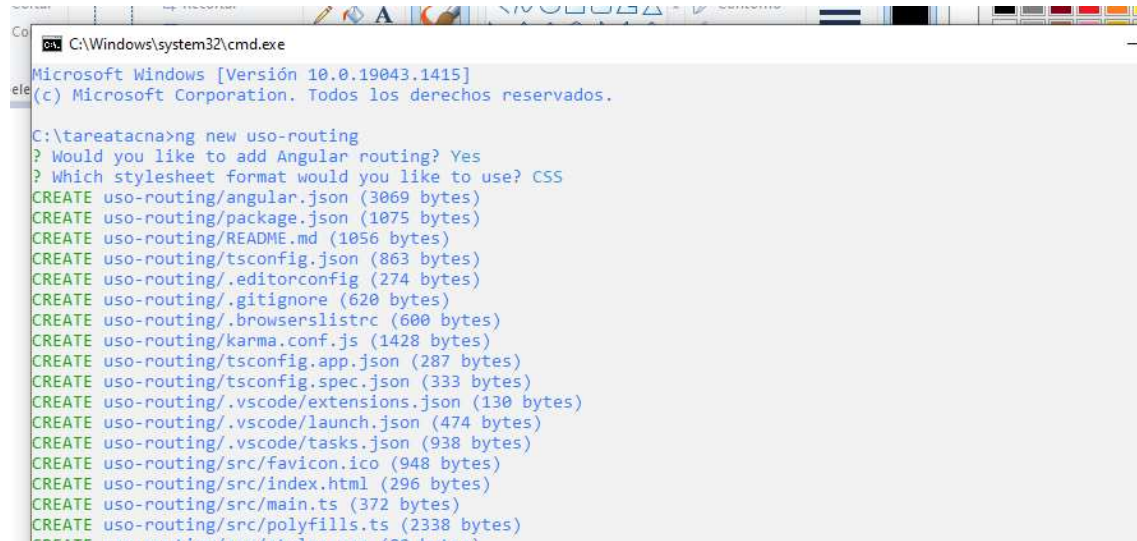# Laboratorio - Routing en Angular

El presente laboratorio servirá para implementar conceptos sobre routing en Angular

En primer lugar se va a crear el proyecto uso-routing

Dentro de la aplicación se modificará el componente app:

app.component.ts

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


@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'Routing con Angular 12';
}
```

app.component.html

```
<div style="text-align:center">
    <h1>
        Bienvenido a {{ title }}!
```

```
        </h1>
        <h2>
                Leer <a href="https://angular.io/start">Sitio Oficial
de Angular</a> y
                <a href="https://blog.angular.io/angular-v12-is-now-
available-32ed51fbfd49">Datos de Angular 12</a>
        </h2>


        <a [routerLink]="[{ outlets: { primary:
['products'],sidebar: ['products'] } }]">
                Productos
        </a>


</div>


<div>
        <div style="float:right">
                <router-outlet></router-outlet>
        </div>
        <div style="float:left">
                <router-outlet name="sidebar"></router-outlet>
        </div>
    <div style="float:center">
                <app-home></app-home>
        </div>
</div>
```
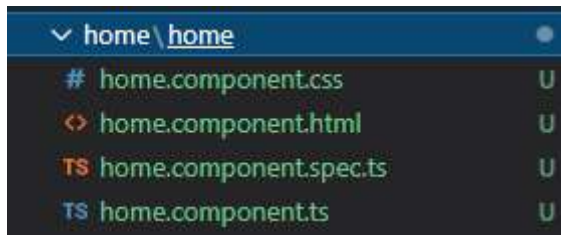
app.component.css

```
ul {
  text-align: center;
}
```

Luego, se crean los componentes necesarios para mostrar el uso de routing.

a. **Componente Home**

El código a realizar será en home.component.html

home.component.html

```html
<div style="text-align:center">


    <h1>

            Inicio

      </h1>


 <p [align]="alinear">

    Es una aplicacion que muestra el uso de Angular Router.

 </p>


</div>
```
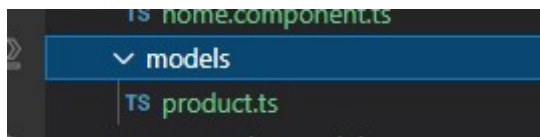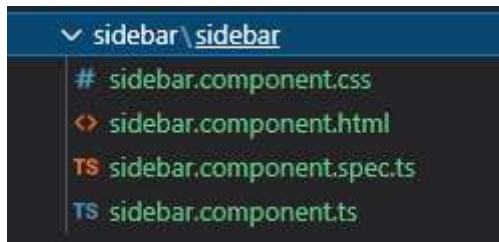
   b. product.ts

Es la clase que contiene los datos de los productos


```typescript
export class Product {
  id: number;
  name: string;
  constructor(id: number, name: string) {
    this.id = id;
    this.name = name;
  }
}
```

   c. Componente sidebar

sidebar.component.html

```html
<div id="container">
  <!---->
  <table cellspacing="10">
<tbody>
  <tr>
    <th style="text-align: right;">
      Empresa:
    </th>
    <td>
      New Horizons
    </td>
  </tr>
  <tr>
    <th style="text-align: right;">
      E-mail:
    </th>
    <td>
      jguerra@newhorizons.pe
    </td>
  </tr>
  <tr>
    <th style="text-align:right;vertical-align:text-top;">
      Desarrollo:
    </th>
    <td>
      <p>
        Aplicacion en Angular 12,<br>
        Mostrar el uso de routing<br>
        Enero 2022
```
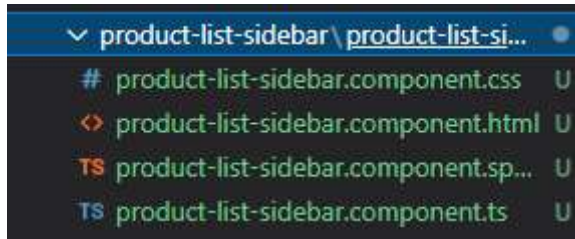
```
        </p>
      </td>
    </tr>
  </tbody>
</table>
</div>
```

    d. Componente producto-list-sidebar

Sin cambios

    e. product-list
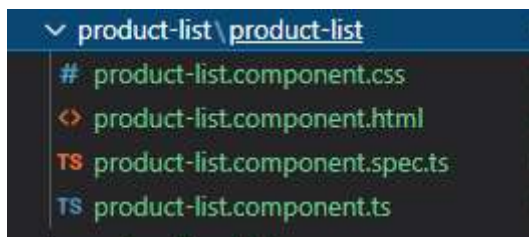
En este caso se coloca el código en *product-list.component.ts*

product-list.component.ts

```typescript
import { Component, OnInit } from '@angular/core';
import { Product } from 'src/app/models/product';

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

  public products: Product[] = [
    new Product(1, "Product 001"),
    new Product(2, "Product 002"),
```

```
    new Product(3, "Product 003"),
    new Product(4, "Product 004"),
    new Product(5, "Product 005"),
    new Product(6, "Product 006"),
    new Product(7, "Product 007"),
    new Product(8, "Product 008")
  ];

  constructor() { }

  ngOnInit() {
  }
}
```

product-list.component.html

```
<h1>Lista de Productos</h1>

<ul>
    <li *ngFor="let product of products">
        <a [routerLink]="['/product/',
product.id]">{{product.name}}</a>
    </li>
</ul>

<a routerLink="/">Ir a Inicio</a>
```
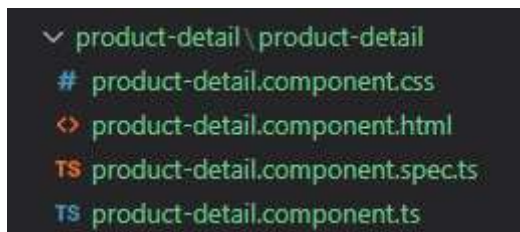
f. **Componente product-detail**

product-detail.component.ts

```
import { Component, OnInit } from '@angular/core';
import { Product } from 'src/app/models/product';
```

```typescript
import { ActivatedRoute } from '@angular/router';

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

  public products: Product[] = [
    new Product(1, "Product 001"),
    new Product(2, "Product 002"),
    new Product(3, "Product 003"),
    new Product(4, "Product 004"),
    new Product(5, "Product 005"),
    new Product(6, "Product 006"),
    new Product(7, "Product 007"),
    new Product(8, "Product 008")
  ];
  product: Product = this.products[0];

  constructor(private route: ActivatedRoute) { }

  ngOnInit() {
    this.route.params.subscribe(params => {
      this.products.forEach((p: Product) => {
       if (p.id == params['id']) {
          this.product = p;
        }
      });
    });
  }

}
```

product-detail.component.html

```html
<h1>Detalle de Producto</h1>

Informacion de Producto: id: {{product.id}} || nombre:
{{product.name}}

<br><a routerLink="/products">Ir a Lista de productos</a>
```

Luego de la creación de los componentes, se debe configurar app.module, lo que se codificara de la siguiente manera:

app.module.ts

```typescript
import { NgModule } from '@angular/core';

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


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

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

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

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

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

import { ProductListSidebarComponent } from './product-list-sidebar/product-list-sidebar/product-list-sidebar.component';

import { SidebarComponent } from './sidebar/sidebar/sidebar.component';


@NgModule({
  declarations: [
    AppComponent,
    HomeComponent,
    ProductDetailComponent,
    ProductListComponent,
    ProductListSidebarComponent,
    SidebarComponent
  ],
  imports: [
    BrowserModule,
    AppRoutingModule
```

```typescript
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

app.routing.module.ts

```typescript
import { NgModule } from '@angular/core';
import { RouterModule, Routes } from '@angular/router';
import { ProductDetailComponent } from './product-
detail/product-detail/product-detail.component';
import { ProductListComponent } from './product-list/product-
list/product-list.component';
import { ProductListSidebarComponent } from './product-list-
sidebar/product-list-sidebar/product-list-sidebar.component';
import { SidebarComponent } from
'./sidebar/sidebar/sidebar.component';

const routes: Routes = [
  { path: "products", component: ProductListComponent },
  { path: "product/:id", component: ProductDetailComponent },
  {
    path: "",
    component: SidebarComponent,
    outlet: "sidebar"
  },
  {
    path: "products",
    component: ProductListSidebarComponent,
    outlet: "sidebar"
  }

];


@NgModule({
```

```
    imports: [RouterModule.forRoot(routes)],

    exports: [RouterModule]

})
export class AppRoutingModule { }
```