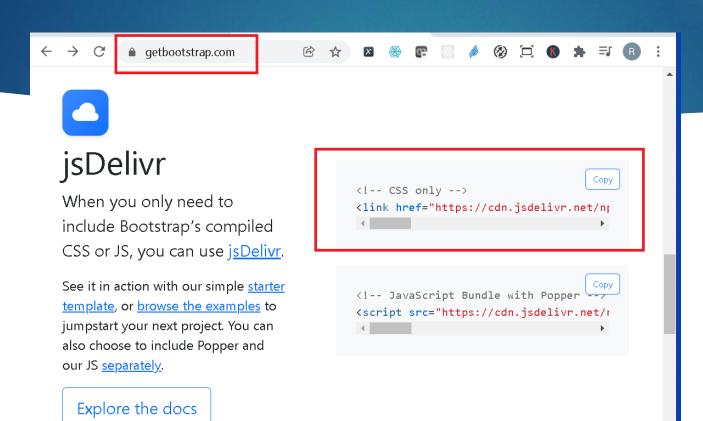
### Creamos un nuevo proyecto

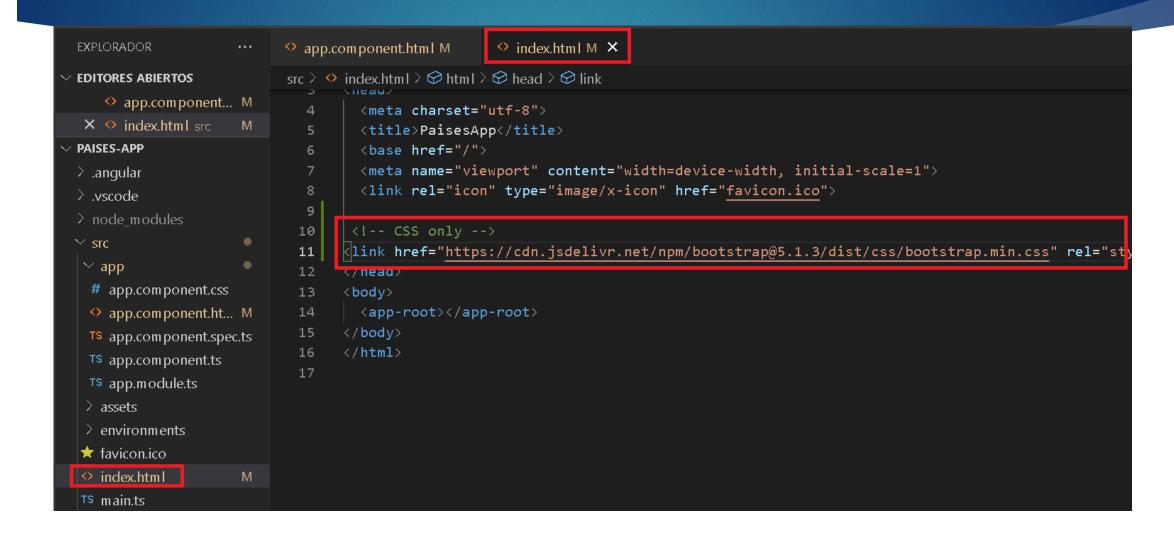
```
📼 Administrador: Símbolo del sistema
:\Users\dell\Desktop\pruebas>ng new paises-app
 Would you like to add Angular routing? No
 Which stylesheet format would you like to use? CSS
 REATE paises-app/angular.json (3063 bytes)
REATE paises-app/package.json (1074 bytes)
 REATE paises-app/README.md (1055 bytes)
REATE paises-app/tsconfig.json (863 bytes)
 REATE paises-app/.editorconfig (274 bytes)
 REATE paises-app/.gitignore (620 bytes)
 REATE paises-app/.browserslistrc (600 bytes)
 REATE paises-app/karma.conf.js (1427 bytes)
REATE paises-app/tsconfig.app.json (287 bytes)
REATE paises-app/tsconfig.spec.json (333 bytes)
 EATE paises-app/.vscode/extensions.json (130 bytes)
 REATE paises-app/.vscode/launch.json (474 bytes)
REATE paises-app/.vscode/tasks.json (938 bytes)
 REATE paises-app/src/favicon.ico (948 bytes)
 REATE paises-app/src/index.html (295 bytes)
REATE paises-app/src/main.ts (372 bytes)
 EATE paises-app/src/polyfills.ts (2338 bytes)
 REATE paises-app/src/styles.css (80 bytes)
 REATE paises-app/src/test.ts (745 bytes)
 EATE paises-app/src/assets/.gitkeep (0 bytes)
 REATE paises-app/src/environments/environment.prod.ts (51 bytes)
REATE paises-app/src/environments/environment.ts (658 bytes)
 EATE paises-app/src/app/app.module.ts (314 bytes)
 EATE paises-app/src/app/app.component.html (23332 bytes)
     paises-app/src/app/app.component.spec.ts (968 bytes)
     paises-app/src/app/app.component.ts (214 bytes)
```

### Añadimos el css de boostrap

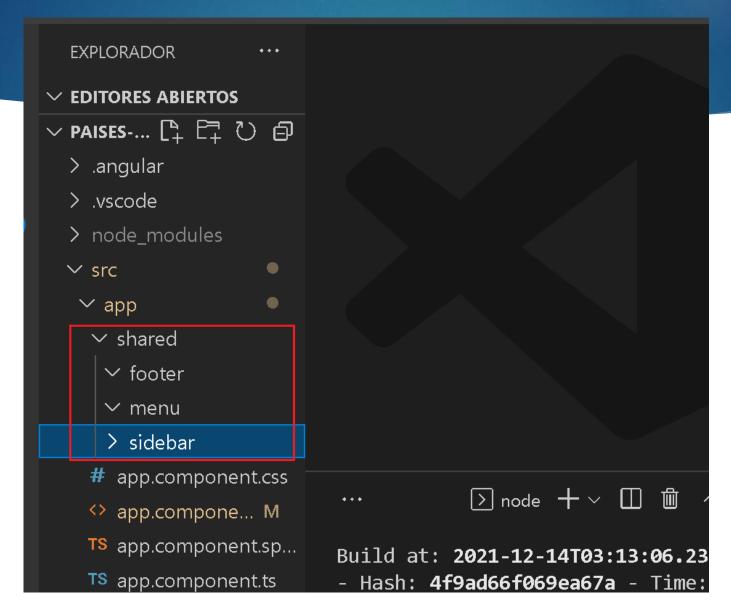


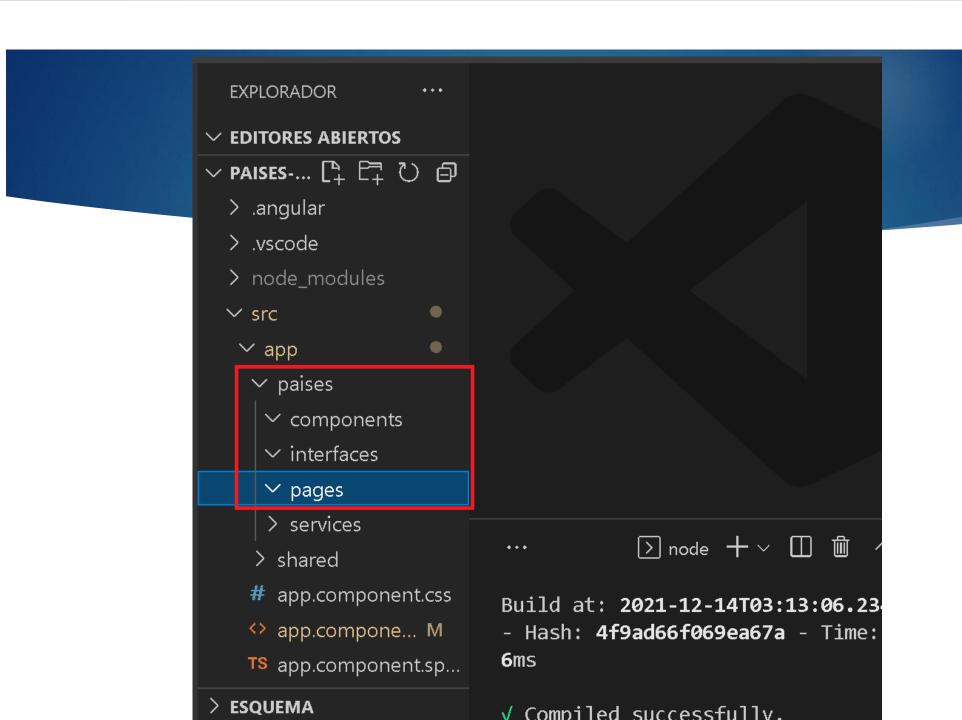


# Añadimos el boostrap al index.html

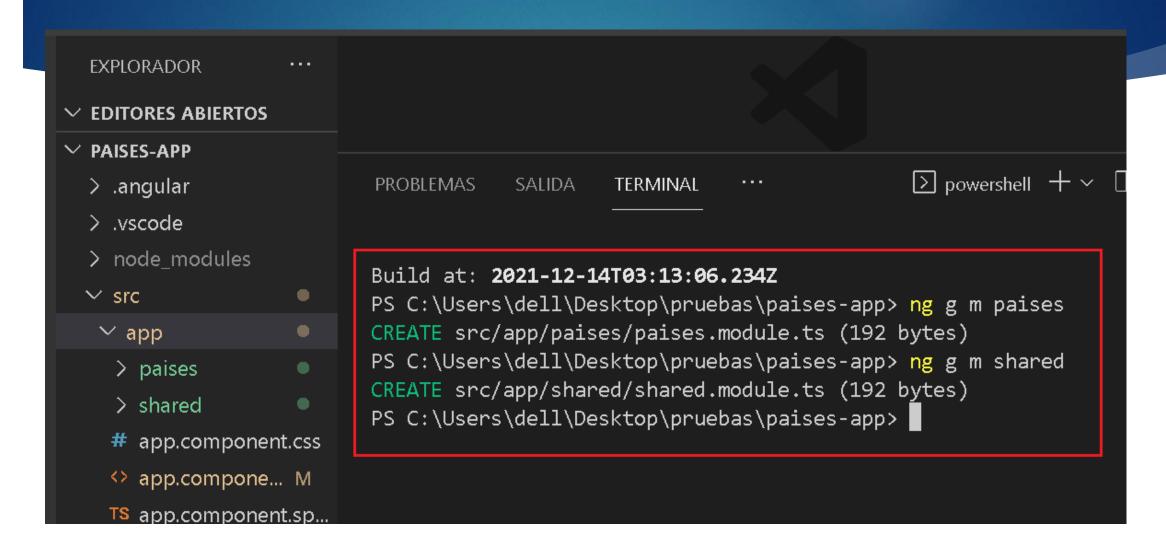


### Creamos los siguientes directorios

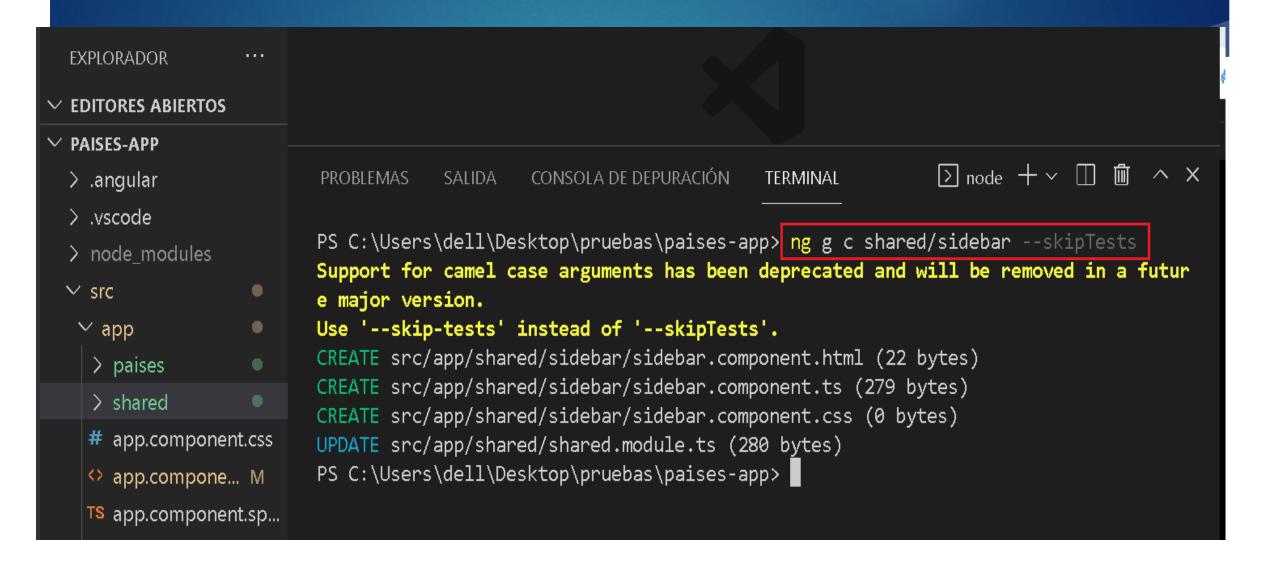




# Creamos los siguientes módulos



# Creamos los siguientes componentes



PS C:\Users\dell\Desktop\pruebas\paises-app>

PROBLEMAS

PS C:\Users\dell\Desktop\pruebas\paises-app> ng g c paises/pages/porCapital --skipTests -is Support for camel case arguments has been deprecated and will be removed in a future major vers ion. Use '--skip-tests' instead of '--skipTests'. CREATE src/app/paises/pages/por-capital/por-capital.component.html (26 bytes) CREATE src/app/paises/pages/por-capital/por-capital.component.ts (265 bytes) UPDATE src/app/paises/paises.module.ts (300 bytes) PS C:\Users\dell\Desktop\pruebas\paises-app> ng g c paises/pages/porPais --skipTests -is Support for camel case arguments has been deprecated and will be removed in a future major vers ion. Use '--skip-tests' instead of '--skipTests'. CREATE src/app/paises/pages/por-pais/por-pais.component.html (23 bytes) CREATE src/app/paises/pages/por-pais/por-pais.component.ts (256 bytes) UPDATE src/app/paises/paises.module.ts (394 bytes) PS C:\Users\dell\Desktop\pruebas\paises-app> ng g c paises/pages/porRegion --skipTests -is Support for camel case arguments has been deprecated and will be removed in a future major vers ion. Use '--skip-tests' instead of '--skipTests'. CREATE src/app/paises/pages/por-region/por-region.component.html (25 bytes) CREATE src/app/paises/pages/por-region/por-region.component.ts (262 bytes) UPDATE src/app/paises/paises.module.ts (496 bytes)

```
OLDWIE 21.0/ abb/ harse2/ harse2 fillonnie for (420 pice2)
PS C:\Users\dell\Desktop\pruebas\paises-app> ng g c paises/pages/verPais --skipTests -is
Support for camel case arguments has been deprecated and will be removed in a future major vers
ion.
Use '--skip-tests' instead of '--skipTests'.
CREATE src/app/paises/pages/ver-pais/ver-pais.component.html (23 bytes)
CREATE src/app/paises/pages/ver-pais/ver-pais.component.ts (256 bytes)
UPDATE src/app/paises/paises.module.ts (590 bytes)
PS C:\Users\dell\Desktop\pruebas\paises-app>
```

# Agregamos los exports al los módulos

```
TS shared.module.ts U X
  EXPLORADOR
                          src > app > shared > TS shared.module.ts > 😭 SharedModule
∨ EDITORES ABIERTOS
   X TS shared.mod... U
                                 import { CommonModule } from '@angular/common';
                                 import { SidebarComponent } from './sidebar/sidebar.component';

∨ PAISES-APP

  > .angular
  > .vscode
  > node modules
                                 @NgModule({

✓ src

                                    declarations: [
                            8

✓ app

                                      SidebarComponent
    > paises
                           10

✓ shared
                                    imports: [
                           11
                                      CommonModule
                           12
     > footer
                           13
     > menu
                                    exports:[
                           14
     > sidebar
                           15
                                      SidebarComponent
    TS shared.mod... U
                           16
    # app.component.css
                           17
    app.compone... M
                           18
                                 export class SharedModule { }
                           19
    TS app.component.sp...
```

```
EXPLORADOR
                        TS shared.module.ts U
                                                TS paises.module.ts U X
∨ EDITORES ABIERTOS
                         src > app > paises > TS paises.module.ts > ધ PaisesModule
                                import { NgModule } from '@angular/core';
     TS shared.mo... U
                                import { CommonModule } from '@angular/common';
  X TS paises.mod... U
                                import { PorCapitalComponent } from './pages/por-capital/por-capital.component';

∨ PAISES-APP

                                import { PorPaisComponent } from './pages/por-pais/por-pais.component';
  🗦 .angular
                                import { PorRegionComponent } from './pages/por-region/por-region.component';
 > .vscode
                                import { VerPaisComponent } from './pages/ver-pais/ver-pais.component';
                           6
 > node modules
 \sim src
  \vee app
                          10
                                @NgModule({

→ paises

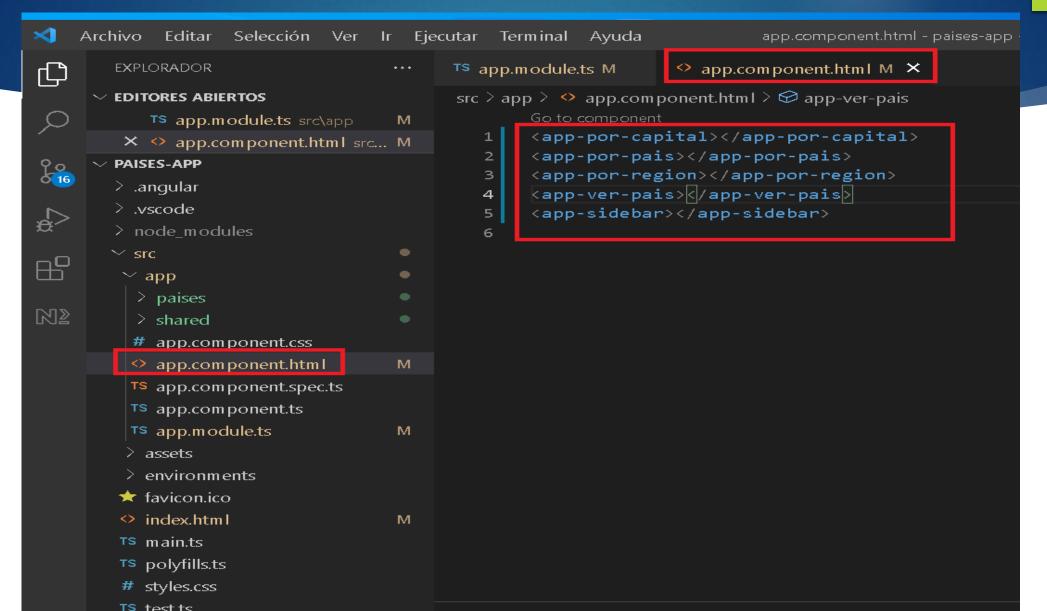
                                  declarations: [
                          11
     > components
                                    PorCapitalComponent,
                          12
     > interfaces
                          13
                                    PorPaisComponent,
     pages
                          14
                                    PorRegionComponent,
     > services
                          15
                                    VerPaisComponent
                          16
    TS paises.mod... U
                                  exports:
                          17
    > shared
                                    PorCapitalComponent,
                          18
   # app.component.css
                                    PorPaisComponent,
                          19
   app.compon... M
                          20
                                    PorRegionComponent,
   TS app.component.sp...
                                    VerPaisComponent
                          21
   TS app.component.ts
                          22
                                  imports: [
                          23
   TS app.module.ts
                          24
                                    CommonModule
   > assets
                          25
   > environments
                          26
```

🖈 favicon.ico

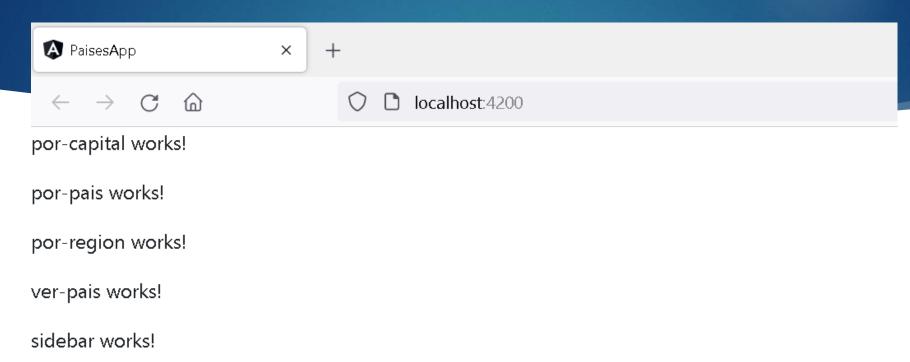
### Importamos los módulos en el modulo principal

```
TS app.module.ts M 🗙
EXPLORADOR
                                  src > app > TS app.module.ts > 😭 AppModule
EDITORES ABIERTOS
                                          import { NgModule } from '@angular/core';
 X TS app.module.ts src\app
                                          import { BrowserModule } from '@angular/platform-browser';
PAISES-APP
.angular
                                          import { AppComponent } from './app.component';
> .vscode
                                          import { PaisesModule } from './paises/paises.module';
> node modules
                                          import { SharedModule } from './shared/shared.module';
\sim src
                                          @NgModule({
 \sim app
                                            declarations: [
  > paises
                                              AppComponent
                                    10
  > shared
                                    11
  # app.component.css
                                    12
                                            imports: [
  app.component.html
                                    13
                                              BrowserModule,
  TS app.component.spec.ts
                                              PaisesModule,
                                    14
                                    15
                                              SharedModule
 TS app.component.ts
                                    16
 TS app.module.ts
                            M
                                            providers: [],
                                    17
 > assets
                                            bootstrap: [AppComponent]
                                    18
 > environments
                                    19
🖈 favicon.ico
                                          export class AppModule { }
                                    20
index.html
                            M
                                    21
TS main.ts
TS polyfills.ts
 # styles.css
TS test.ts
■ .browserslistrc
                                   PROBLEMAS
                                               SALIDA
                                                        CONSOLA DE DEPURACIÓN
                                                                                TERMINAL
```

#### Probamos esto en el app.component.html

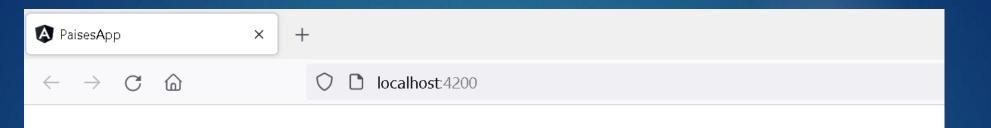


# Verificamos que todo funcione



#### Estructura html

```
⇔ app.component.html M X
TS app.module.ts M
src > app > ↔ app.component.html > ⇔ div.row.container.mt-4
     Go to component
     <div class="row container mt-4">
  2
       <div class="col-3">
        <h2>Busquedas</h2>
        <hr>>
        Buscar Pais
          Por Región
          Por Capital
 10
        11
       </div>
 12
 13
       <div class="col">
 14
        <h2>Por capital</h2>
 15
        <hr>>
 16
        <app-por-capital></app-por-capital>
 17
       </div>
 18
 19
     </div>
 20
```



### Busquedas

### Por capital

Buscar Pais

Por Región

Por Capital

por-capital works!

### Creamos el ts de rutas

```
<del>口</del>
                                       TS app-routing.module.ts U 🗙
        EXPLORADOR
      ∨ EDITORES ABIERTOS
                                       src > app > TS app-routing.module.ts > ...
                                                  },
         X TS app-routing.modul... U
                                         19

∨ PAISES-APP

                                                    path: 'capital',
0
0
17
        🗦 .angular
                                                    component: PorCapitalComponent
                                         21
        > .vscode
                                         22
                                                  },
                                         23
4
                                                    path: 'pais/:id',
                                         24
                                                    component: VerPaisComponent
         \sim app
},
          > paises
          > shared
                                                    path: '**',
\mathbb{N}
         TS app-routing.module.ts U
                                                    redirectTo:''
          # app.component.css
          app.component.html
                                         32
          TS app.component.spec.ts
                                               @NgModule({
          TS app.component.ts
                                                  imports:[
          TS app.module.ts
                                 М
                                                    RouterModule.forRoot( routes )
         > assets
                                                  ],
         > environments
                                                  exports:[
        * favicon.ico
        index.html
                                                    RouterModule
        TS main.ts
                                               })
        TS polyfills.ts
                                         42
         # styles.css
                                         43
                                               export class AppRoutingModule{}
        TS test.ts
                                         44
```

```
TS app-routing.module.ts U 🗙
  EXPLORADOR
                               src > app > TS app-routing.module.ts > ...
∨ EDITORES ABIERTOS
  X TS app-routing.modul... U
                                      import { PorCapitalComponent } from "./paises/pages/por-capital/por-capital.component";
                                       import { PorPaisComponent } from "./paises/pages/por-pais/por-pais.component";

∨ PAISES-APP

                                       import { PorRegionComponent } from "./paises/pages/por-region/por-region.component";
  → .angular
                                       import { VerPaisComponent } from "./paises/pages/ver-pais/ver-pais.component";
  > .vscode
  > node modules
                                       const routes: Routes = [
  \sim app
                                           path: '',
                                 11
    paises
                                 12
                                           component: PorPaisComponent,
    > shared
                                           pathMatch: 'full'
                                 13
   TS app-routing.module.ts
                                 14
                                         },
   # app.component.css
                                 15
   app.component.html
                                           path: 'region',
   TS app.component.spec.ts
                                           component: PorRegionComponent
                                 17
                                 18
                                         },
   TS app.component.ts
                                 19
   TS app.module.ts
                         М
                                           path: 'capital',
                                 20
   > assets
                                           component: PorCapitalComponent
                                 21
   > environments
                                 22
                                         },
  🖈 favicon.ico
                                 23
  index.html
                         M
                                           path: 'pais/:id',
  TS main.ts
                                           component: VerPaisComponent
                                         },
  TS polyfills.ts
                                 27
  # styles.css
                                           path: '**',
  TS test.ts
                                 29
                                           redirectTo:''
 ■ .browserslistrc
                                 30
 ESQUEMA
                                       ];
```

#### A tener en cuenta dentro de las definiciones de rutas

- Path: es la ruta que queremos configurar
- Component: componente asociado a esa ruta. Se debe importar el componente dentro de la clase de ruta.
- PathMatch: esta propiedad es opcional, significa toda la url tiene que coincidir (no solo cierta parte).

#### Finalmente lo agregamos al modulo principal

```
TS app.module.ts M X
 EXPLORADOR
                               TS app-routing.module.ts U
                                src > app > TS app.module.ts > ધ AppModule
∨ EDITORES ABIERTOS
                                       import { NgModule } from '@angular/core';
     TS app-routing.modul... U
                                       import { BrowserModule } from '@angular/platform-browser';
   X TS app.module.ts src\a... M
                                       import { AppRoutingModule } from './app-routing.module';

∨ PAISES-APP

 🗦 .angular
                                       import { AppComponent } from './app.component';
 > .vscode
                                       import { PaisesModule } from './paises/paises.module';
 > node modules
                                       import { SharedModule } from './shared/shared.module';
                                       @NgModule({
  \sim app
                                         declarations: [
                                 10
   > paises
                                            AppComponent
                                 11
    > shared
                                 12
   TS app-routing.module.ts U
                                         imports: [
                                 13
   # app.component.css
                                 14
                                            BrowserModule,
                                           AppRoutingModule,
   app.component.html
                                 15
                                 16
                                            PaisesModule,
   TS app.component.spec.ts
                                            SharedModule
                                 17
   TS app.component.ts
                                 18
   TS app.module.ts
                          M
                                 19
                                         providers: [],
   > assets
                                 20
                                         bootstrap: [AppComponent]
   > environments
                                 21
  \star favicon.ico
                                       export class AppModule { }
                                 22
                                 23
  index.html
                          М
  TS main.ts
  TS polyfills.ts
```

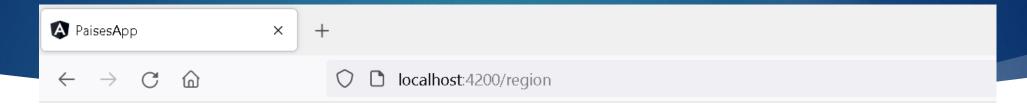
#### Router-outlet Renderiza el componente dentro de la vista html

```
↔ app.component.html M × 🐧
outing.module.ts U
              TS app.module.ts M
 src > app > ↔ app.component.html > ...
      Go to component
      <div class="row container mt-4">
        <div class="col-3">
         <h2>Busquedas</h2>
         <hr>>
         Buscar Pais
           Por Región
           Por Capital
         10
  11
        </div>
  12
        <div class="col">
  13
         <router-outlet></router-outlet>
  14
  15
        </div>
  16
      </div>
  17
  18
```

### <router-outlet></router-outlet>

Nos enseña el componente referenciada a la URL actual

### Probamos las rutas



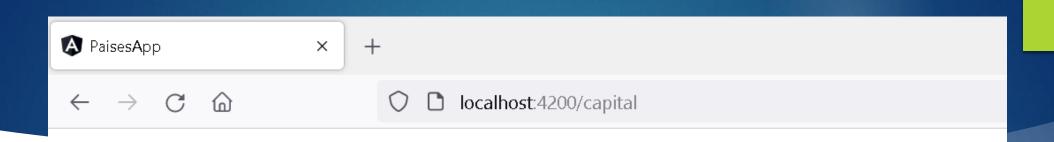
#### Busquedas

por-region works!

Buscar Pais

Por Región

Por Capital



# Busquedas

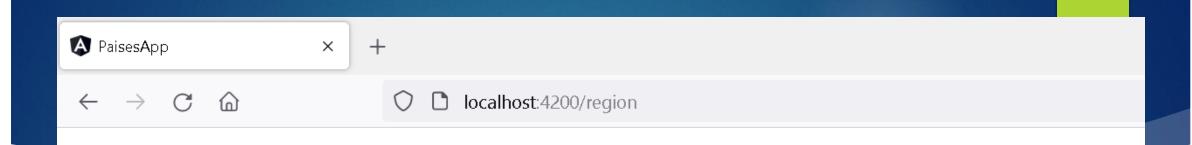
por-capital works!

Buscar Pais
Por Región
Por Capital

#### Usamos las propiedades de rutas en html

```
⇔ app.component.html M X
src > app > ↔ app.component.html > ☆ div.row.container.mt-4 > ☆ div.col-3 > ☆ ul.list-group > ☆ li.list-group-item
     Go to component
      <div class="row container mt-4">
       <div class="col-3">
         <h2>Busquedas</h2>
         <hr>>
         routerLink="region" class="list-group-item">Por Región
           routeLink="capital" class="list-group-item">Por Capital
 10
         </div>
 11
 12
 13
       <div class="col">
 14
         <router-outlet></router-outlet>
 15
       </div>
 16
 17
      </div>
```

```
EXPLORADOR
                           src > app > 	⇔ app.component.html > 	⇔ div.row.container.mt-4
EDITORES ABIERTOS
                                   Go to component
 × ◇ app.component.ht... M
                                   <div class="row container mt-4">
   TS app-routing.module.... U
                              2
                                     <div class="col-3">
PAISES-APP
🗦 .angular
                                       <h2>Busquedas</h2>
> .vscode
                                       <hr>>
> node modules
                                       routerLink=""
\sim src
                                             routerLinkActive="active"
\vee app
                                             [routerLinkActiveOptions]="{exact:true}"
  > paises
                             10
                                             class="list-group-item">
  > shared
                                             Buscar Pais
                             11
 TS app-routing.module.ts U
                             12
                                         # app.component.css
                                         <1i
                             13
                                             routerLink="region"
 app.component.html
                             14
                                             routerLinkActive="active"
                             15
 TS app.component.spec.ts
                                             class="list-group-item">
                             16
 TS app.component.ts
                                             Por Región
                             17
 TS app.module.ts
                      M
                                           18
 > assets
                             19
                                         <1i
 environments
                                             routerLink="capital"
                             20
🖈 favicon.ico
                                             routerLinkActive="active"
                             21
                                             class="list-group-item">
                             22
index.html
                      М
                                             Por Capital
                             23
TS main.ts
                                         24
TS polyfills.ts
                             25
                                       # styles.css
                                     </div>
                             26
TS test.ts
                             27
ESQUEMA
                             28
                                     <div class="col">
```



# Busquedas

por-region works!

Buscar Pais

Por Región

Por Capital

### Pasamos al sidebar el menú

```
ເນ ⊞ ແ<sub>ມ</sub>

◆ sidebar.component.html U ×

src > app > ◆ app.component.html > ♦ div.row.container.mt-4
                                                                          src > app > shared > sidebar > ◆ sidebar.component.html > ♦ p
      Go to component
                                                                                Go to component
      <div class="row container mt-4">
                                                                                sidebar works!
  2
        <div class="col-3">
  4
          <h2>Busquedas</h2>
          <hr>>
          routerLink=""
                routerLinkActive="active"
                [routerLinkActiveOptions]="{exact:true}"
                class="list-group-item">
                Buscar Pais
 11
            12
            <1i
 13
                routerLink="region"
                routerLinkActive="active"
                class="list-group-item">
 17
                Por Región
              <1i
                routerLink="capital"
                routerLinkActive="active"
                class="list-group-item">
                Por Capital
            </div>
 27
        <div class="col">
          <router-outlet></router-outlet>
```

```
th □ ...
⇔ app.component.html M X
src > app > ↔ app.component.html > ...
       Go to component
       <div class="row container mt-4">
         <div class="col-3">
  4
          <app-sidebar></app-sidebar>
         </div>
         <div class="col">
           <router-outlet></router-outlet>
         </div>
 10
 11
       </div>
 12
```

```
⇔ sidebar.component.html 1, U ×
src > app > shared > sidebar > ⇔ sidebar.component.html > ⇔ ul.list-group
      Go to component
      <h2>Busquedas</h2>
      <hr>>
      routerLinkActive="active"
            [routerLinkActiveOptions]="{exact:true}"
            class="list-group-item">
           Buscar Pais
        <1i
 10
 11
           routerLink="region"
           routerLinkActive="active"
 12
            class="list-group-item">
 13
 14
           Por Región
 15
          16
        17
           routerLink="capital"
           routerLinkActive="active"
 18
            class="list-group-item">
 19
            Por Capital
 21
        22
```

```
TS shared.module.ts U 🗙
  EXPLORADOR
                                 src > app > shared > TS shared.module.ts > 😝 SharedModule
∨ EDITORES ABIERTOS
                                        import { NgModule } from '@angular/core';
   X TS shared.module.ts src... U
                                        import { CommonModule } from '@angular/common';
∨ PAISES-APP
                                        import { SidebarComponent } from './sidebar/sidebar.component';
  > .angular
                                        import { RouterModule } from '@angular/router';
  > .vscode
  > node_modules
 ∨ src
                                        @NgModule({

✓ app

                                          declarations: [
    > paises
                                  10
                                             SidebarComponent

✓ shared
                                  11
     > footer
                                          imports: [
                                  12
     > menu
                                  13
                                            CommonModule,

✓ sidebar

                                             RouterModule
                                  14
      # sidebar.component.... U
                                  15
                                  16
                                          exports:
      sidebar.componen... 1, U
                                  17
                                             SidebarComponent
      TS sidebar.component.ts U
                                  18
    TS shared.module.ts
                                  19
    TS app-routing.module.ts
                                        export class SharedModule { }
                                  20
    # app.component.css
                                  21
    app.component.html
                          М
> ESQUEMA
```



# Busquedas

por-capital works!

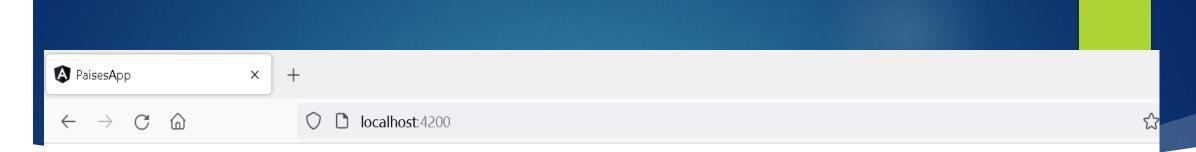
Buscar Pais
Por Región
Por Capital

### Modificamos la vista por país

```
⇔ por-pais.component.html U X
src > app > paises > pages > por-pais > ⇔ por-pais.component.html > ⇔ div.row > ⇔ div.col > ⇔ ta
       Go to component
       <h2>Por Pais</h2>
       <hr>>
       <div class="row">
          <div class="col">
            <form autocomplete="off">
              <input</pre>
                type="text"
                name="termino"
                class="form-control"
 11
                placeholder="Buscar pais...">
 12
           </form>
 13
 14
         </div>
 15
       </div>
 17
       <hr>>
       <div class=" alert alert-danger">
 19
         No se encontro nada con la busqueda ingresada
       </div>
  21
  22
       <div class="row">
  23
```

```
⇔ por-pais.component.html ∪ X
src > app > paises > pages > por-pais > 💠 por-pais.component.html > 😭 div.row
 18
 19
     <div class=" alert alert-danger">
      No se encontro nada con la busqueda ingresada
 20
 21
     </div>
 22
 23
     <div class="row">
       <div class="col">
 24
        25
 26
          <thead>
 27
            28
             #
 29
             Bandera
             Nombre
 30
 31
             Poblacion
 32
             33
            34
          </thead>
 35
          36
            1
 37
             bandera
 38
             nombre
 39
 40
             23232323
             2+A < -
```

```
Archivo Editar Selección Ver Ir Ejecutar Terminal Ayuda
                                                     por-pais.component.html - paises-app
    opor-pais.component.html U 🗙
    src > app > paises > pages > por-pais > ◆ por-pais.component.html > ◆ div.row > ◆ div.col
          <div class="row">
      24
           <div class="col">
             25
0
0
17
              <thead>
      27
                >
                 #
₽
                 Bandera
      30
                 Nombre
Poblacion
                 32
      33
                34
              </thead>
              >
                 1
                 bandera
                 nombre
      40
                 23232323
      41
                 >
      42
                   <a href="#">Ver...</a>
      43
                 44
                49
           </div>
      50
      51
```



### Busquedas

#### Por Pais

Buscar Pais

Por Región

Por Capital

Buscar pais...

No se encontro nada con la busqueda ingresada

#	Bandera	Nombre	Poblacion	
1	bandera	nombre	23232323	Ver