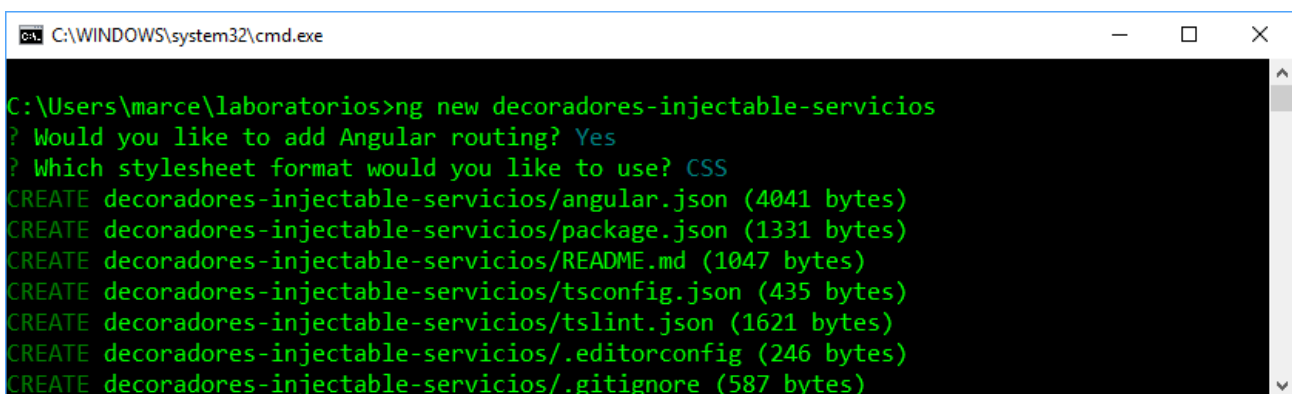ng new decoradores-injectable-servicios

ng generate component componentes/lista-alumnos

ng generate service servicios/alumnos

ng generate class modelos/alumnos

```
C:\Users\marce\laboratorios>ng new decoradores-injectable-servicios
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
CREATE decoradores-injectable-servicios/angular.json (4041 bytes)
CREATE decoradores-injectable-servicios/package.json (1331 bytes)
CREATE decoradores-injectable-servicios/README.md (1047 bytes)
CREATE decoradores-injectable-servicios/tsconfig.json (435 bytes)
CREATE decoradores-injectable-servicios/tslint.json (1621 bytes)
CREATE decoradores-injectable-servicios/.editorconfig (246 bytes)
CREATE decoradores-injectable-servicios/.gitignore (587 bytes)
```

/src/styles.css

```css
body{
    background: #C9D6FF;  /* fallback for old browsers */
    background: -webkit-linear-gradient(to right, #E2E2E2, #C9D6FF);  /* Chrome
10-25, Safari 5.1-6 */
    background: linear-gradient(to right, #E2E2E2, #C9D6FF);
    /* W3C, IE 10+/ Edge, Firefox 16+, Chrome 26+, Opera 12+, Safari 7+ */
}
```

/src/index.html

```html
<!doctype html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <title>DirectivasHttpAngular</title>
  <base href="/">

  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="icon" type="image/x-icon" href="favicon.ico">

  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.css"
integrity="sha384-ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T" crossorigin="anony-
mous">

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css" integrity="sha384-
50oBUHEmvpQ+1lW4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhndOJK28anvf" crossorigin="anonymous">

</head>
<body>
  <app-root></app-root>
  <script src="https://code.jquery.com/jquery-3.3.1.slim.min.js" integrity="sha384-
q8i/X+965DzO0rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integ-
rity="sha384-UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anony-
mous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-
JjSmVgyd0p3pXB1rRibZUAYoIIy6OrQ6VrjIEaFf/nJGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
</html>
```

import {HttpClientModule} from '@angular/common/http'

/src/app/app-module.ts

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

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

import {HttpClientModule} from '@angular/common/http';

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

/src/app/modelos/alumnos.ts

```typescript
export class Alumno {

    id: number;
    nombres: string;
    apellidos: string;
    doc_identidad: number

}
```

/src/app/componentes/listar-alumnos.component.html

```html
<div class="row mt-2">
  <div class="col-12">
    <table class="table">
      <thead class="thead-dark">
        <tr>
          <th scope="col">ID</th>
          <th scope="col">Nombres</th>
          <th scope="col">Apellidos</th>
          <th scope="col">CI</th>
        </tr>
      </thead>
      <tbody>
        <tr *ngFor="let alumno of alumnos">
          <td>{{ alumno.id }}</td>
          <td>{{ alumno.nombres }}</td>
          <td>{{ alumno.apellidos }}</td>
          <td>{{ alumno.doc_identidad }}</td>
        </tr>
      </tbody>
    </table>
  </div>
</div>
```

/src/app/componentes/lista-alumnos.component.ts

```typescript
import { Component, OnInit } from '@angular/core';
import { Alumno } from 'src/app/modelo/alumno';
import { AlumnosService } from 'src/app/servicios/alumnos.service';

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

  alumno: Alumno;
  alumnos: Alumno[];

  constructor(private alumnosServicio: AlumnosService) { }

  ngOnInit() {
    this.cargarAlumnos();
  }

  cargarAlumnos() {
    this.alumnosServicio.obtenerRegistros().subscribe(resp=>{
      this.alumnos = resp as any;
    })
  }

}
```

/src/app/servicios/alumnos.service.ts

```typescript
import { Injectable } from '@angular/core';
import { HttpClient } from '@angular/common/http';
import { Alumno } from '../modelo/alumno';

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

  URL_API: string = 'http://localhost:3000/api-cognos/alumnos';

  constructor(private http: HttpClient) { }

  obtenerRegistros() {
    return this.http.get(this.URL_API);
  }

  nuevoRegistro(alumno:Alumno){
    return this.http.post(this.URL_API,alumno);
  }

  modificarRegistro(alumno:Alumno){
    return this.http.put(`${this.URL_API}/${alumno.id}`,alumno);
  }

  eliminarRegistro(id:Number){
    return this.http.delete(`${this.URL_API}/${id}`);
  }

}
```

/src/app/app.component.html

```html
<nav class="navbar navbar-light bg-light">
  <span class="navbar-brand mb-0 h1">
    <img src="assets/logocognos.png" alt="">
  </span>
</nav>

<div class="container">

  <div class="row mt-2">
    <div class="col-12">

      <div class="card">
        <div class="card-body">

          <app-lista-alumnos></app-lista-alumnos>

        </div>
      </div>

    </div>
  </div>

</div>
```