



ServiceAngularLab x +

localhost:4200

COGNOS

Alumno

Nombres

Apellidos

Doc.Identidad

+ Crear

ID	Nombres	Apellidos	Doc.Identidad		
1	Ana	Gomez	123456		
2	Jorge	Chavez	112233		

OK, se inserto



```
/ng new crud-service-angular
```

```
/crud-service-angular> ng g c componentes/alumno_frm
```

```
/crud-service-angular> ng g c componentes/alumno_tbl
```

```
/crud-service-angular> ng g class modelos/alumno
```

```
/crud-service-angular> ng g s servicios/alumno
```

/crud-service-angular> ng serve -o

/crud-service-angular> ng build --prod

/src/index.html

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

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

  <link rel="stylesheet" href="https://use.fontawesome.com/releases/v5.8.1/css/all.css" integrity="sha384-
50oBUHEmvpQ+11W4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhnd0JK28anvf" crossorigin="anonymous">

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



/src/styles.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/app/app-module.ts

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import { AppRoutingModule } from './app-routing.module';
import { AppComponent } from './app.component';
import { AlumnoFrmComponent } from './componentes/alumno-frm/alumno-frm.component';
import { AlumnoTblComponent } from './componentes/alumno-tbl/alumno-tbl.component';
import { HttpClientModule } from '@angular/common/http';
import { FormsModule } from '@angular/forms';

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



/src/app/app.component.html

```
<nav class="navbar navbar-light bg-light">
  <span class="navbar-brand mb-0 h1">
    
  </span>
</nav>
<div class="container">
  <div class="row">
    <div class="col-4">
      <app-alumno frm [alumno]="alumno" [esNuevo]="esNuevo" (crearAlumno)="registrarAlumno($event)"
(guardarAlumno)="guardarAlumno($event)"></app-alumno frm>
    </div>
    <div class="col-8">
      <app-alumno-tbl
        [alumnos]="alumnos"
        (editarAlumno)="modificarAlumno($event)"
        (eliminarAlumno)="eliminarAlumno($event)"
      ></app-alumno-tbl>
    </div>
  </div>
  <div class="row">
    <div class="col-12">
      <div class="alert alert-secondary mt-2" role="alert">
        {{ responde.message }}
      </div>
    </div>
  </div>
</div>
<router-outlet></router-outlet>
```

/src/app/app.component.ts

```
import { Component, OnInit } from '@angular/core';
import { AlumnoService } from '../servicios/alumno.service';
import { Alumno } from '../modelos/alumno';

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

  alumnos: Alumno[];
  alumno: Alumno;
  responde: { message: string };
  esNuevo = true;

  constructor(private alumnoService: AlumnoService) { }

  ngOnInit() {
    this.obtenerAlumnos();
    this.responde = { message: '' };
    this.alumno = new Alumno();
  }
}
```



```
obtenerAlumnos() {
  this.alumnoService.leerAlumnos().subscribe(res => {
    this.alumnos = res as Alumno[];
  });
}

registrarAlumno(alumno) {
  this.alumnoService.crearAlumno(alumno).subscribe(res => {
    this.responde = res as { message: string };
    this.obtenerAlumnos();
  });
}

modificarAlumno(alumno) {
  this.alumno = alumno;
  this.esNuevo = false;
}

guardarAlumno(alumno) {
  this.alumnoService.modificarAlumno(alumno).subscribe(res => {
    this.responde = res as { message: string };
    this.obtenerAlumnos();
  });
  this.esNuevo = true;
}
```

```
eliminarAlumno(id: number) {  
  if (confirm('Eliminar ?')) {  
    this.alumnoService.eliminarAlumno(id).subscribe(res => {  
      this.responde = res as { message: string };  
      this.obtenerAlumnos();  
    });  
  }  
}
```

/src/app/modelos/alumno.ts

```
export class Alumno {  
  id: number;  
  nombres: string;  
  apellidos: string;  
  doc_identidad: string;  
}
```




/src/app/servicios/alumno.service.ts

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

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

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

  constructor(private http: HttpClient) { }

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

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

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

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

/src/app/componentes/alumno-frm.component.html

```
<div class="card mt-2">
  <div class="card-header">
    <h5>Alumno</h5>
  </div>
  <div class="card-body">
    <form>
      <div class="form-group">
        <input type="text" class="form-control" name="nombres" [(ngModel)]='alumno.nombres' placeholder="Nombres">
      </div>
      <div class="form-group">
        <input type="text" class="form-control" name="apellidos" [(ngModel)]='alumno.apellidos' placeholder="Apellidos">
      </div>
      <div class="form-group">
        <input type="text" class="form-control" name="doc_identidad" [(ngModel)]='alumno.doc_identidad' placeholder="Doc.Identidad">
      </div>
      <div class="form-group">
        <button class="btn btn-primary btn-block" (click)="registrar()" *ngIf="esNuevo">
          <i class="fas fa-user-plus"></i> Crear
        </button>
        <button class="btn btn-success btn-block" (click)="guardar()" *ngIf="!esNuevo">
          <i class="fas fa-user-edit"></i> Modificar
        </button>
      </div>
    </form>
  </div>
</div>
```



/src/app/componentes/alumno-frm.component.ts

```
import { Component, OnInit, Input, Output, EventEmitter } from '@angular/core';
import { Alumno } from 'src/app/modelos/alumno';

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

  @Output() crearAlumno = new EventEmitter<Alumno>();
  @Output() guardarAlumno = new EventEmitter<Alumno>();
  @Input() alumno: Alumno;
  @Input() esNuevo: boolean;

  constructor() { }

  ngOnInit() { }

  registrar() {
    if (this.alumno.nombres && this.alumno.apellidos && this.alumno.doc_identidad) {
      this.crearAlumno.emit(this.alumno);
      this.alumno = new Alumno();
    } else {
      alert('ERROR,Campos requeridos');
    }
  }
}
```

```
guardar() {  
  if (this.alumno.nombres && this.alumno.apellidos && this.alumno.doc_identidad) {  
    this.guardarAlumno.emit(this.alumno);  
    this.alumno = new Alumno();  
  } else {  
    alert('ERROR,Campos requeridos');  
  }  
}  
}
```



/src/app/componentes/alumno-tbl.component.html

```
<table class="table mt-2">
  <thead class="thead-dark">
    <tr>
      <th scope="col">ID</th>
      <th scope="col">Nombres</th>
      <th scope="col">Apellidos</th>
      <th scope="col">Doc.Identidad</th>
      <th></th>
    </tr>
  </thead>
  <tbody>
    <tr *ngFor="let alumno of alumnos">
      <th scope="row">{{alumno.id}}</th>
      <td>{{alumno.nombres}}</td>
      <td>{{alumno.apellidos}}</td>
      <td>{{alumno.doc_identidad}}</td>
      <td>
        <button class="btn btn-success" (click)='editar(alumno)'><i class="fas fa-user-edit"></i></button>
        <button class="btn btn-danger ml-2" (click)='eliminar(alumno.id)'><i class="fas fa-user-minus"></i></button>
      </td>
    </tr>
  </tbody>
</table>
```

/src/app/componentes/alumno-tbl.component.ts

```
import { Component, OnInit, Input, Output, EventEmitter } from '@angular/core';
import { Alumno } from 'src/app/modelos/alumno';

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

  @Input() alumnos: Alumno[];
  @Output() editarAlumno = new EventEmitter<Alumno>();
  @Output() eliminarAlumno = new EventEmitter<number>();

  constructor() { }

  ngOnInit() { }

  editar(alumno: Alumno) {
    this.editarAlumno.emit(alumno);
  }

  eliminar(id: number) {
    this.eliminarAlumno.emit(id);
  }
}
```

