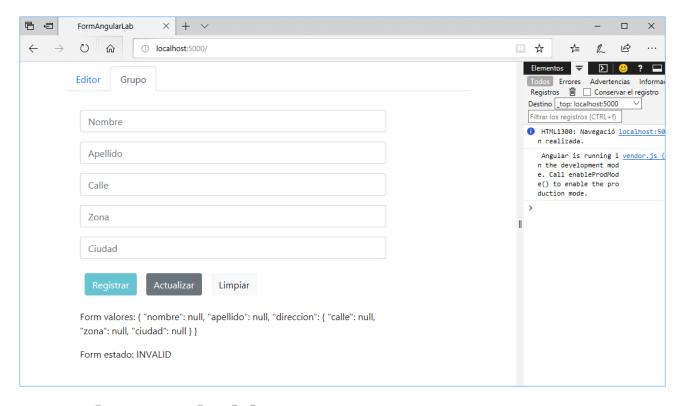# Reactive forms

Template-driven forms

ng new form-angular-lab

ng generate component componentes/form-alumno

ng generate component componentes/registro-alumno

https://getbootstrap.com/docs/4.3/getting-started/introduction/

https://angular.io/guide/reactive-forms

/src/index.html

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

</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" integrity="sha384-
UO2eT0CpHqdSJQ6hJty5KVphtPhzWj9WO1clHTMGa3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anonymous"></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>
```

/src/app/app.module.te

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

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

import { ReactiveFormsModule } from '@angular/forms';
import { RegistroAlumnoComponent } from './componentes/registro-alumno/registro-alumno.component';
import { FormAlumnoComponent } from './componentes/form-alumno/form-alumno.component';

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

/src/app/app.component.html

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

            <ul class="nav nav-tabs" id="myTab" role="tablist">
                <li class="nav-item">
                    <a class="nav-link active" id="tab1-tab" data-toggle="tab" href="#tab1" role="tab"
                        aria-controls="tab1" aria-selected="true">Editor</a>
                </li>
                <li class="nav-item">
                    <a class="nav-link" id="tab2-tab" data-toggle="tab" href="#tab2" role="tab"
                        aria-controls="tab2" aria-selected="false">Grupo</a>
                </li>
            </ul>
            <div class="tab-content" id="myTabContent">
                <div class="tab-pane fade show active" id="tab1" role="tabpanel" aria-labelledby="tab1-tab">

                    <app-registro-alumno></app-registro-alumno>

                </div>
                <div class="tab-pane fade" id="tab2" role="tabpanel" aria-labelledby="tab2-tab">

                    <app-perfil-alumno></app-perfil-alumno>

                </div>
            </div>

        </div>
    </div>
</div>
```

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

```typescript
import { Component, OnInit } from '@angular/core';
import { FormControl } from '@angular/forms';

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

  nombre = new FormControl('');

  constructor() { }

  ngOnInit() {
  }

  antualizarNombre() {
    this.nombre.setValue('Ana Gomez');
  }

}
```

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

```html
<div class="row">
  <div class="col-6">

    <div class="p-4">

      <div class="form-group">
        <input type="text" [formControl]="nombre" name="nombre" class="form-con-
trol">
      </div>
      <div class="form-group">
        Nombre : {{ nombre.value}}
      </div>

      <button (click)="antualizarNombre()" class="btn btn-secondary">Actualizar
Nombre</button>

    </div>

  </div>
</div>
```

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

```typescript
import { Component, OnInit } from '@angular/core';
import { FormGroup, FormControl, Validators } from '@angular/forms';

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

  alumnoForm = new FormGroup({
    nombre: new FormControl('',[Validators.required]),
    apellido: new FormControl('',[Validators.required]),
    direccion: new FormGroup({
      calle: new FormControl(''),
      zona: new FormControl(''),
      ciudad: new FormControl('')
    })
  });

  constructor() { }

  ngOnInit() {  }

  revert() {
    this.alumnoForm.reset();
  }

  onSubmit() {
    if (this.alumnoForm.invalid) {
      return;
    }
  }
}
```

```
  actualizarAlumno() {
    this.alumnoForm.patchValue({
      nombre: 'Marco',
      apellido: 'Vargas',
      direccion: {
        calle: 'av. Arce  #4200',
        zona: 'Sopocachi',
        ciudad: 'La Paz'
      }
    });
  }

}
```

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

```html
<div class="row mt-2">
  <div class="col-10">

    <div class="p-4">

      <form [formGroup]="alumnoForm" (ngSubmit)="onSubmit()">

        <div class="form-group">
          <input type="text" formControlName="nombre" class="form-control" pla-
ceholder="Nombre">
        </div>
        <div class="form-group">
          <input type="text" formControlName="apellido" class="form-control" pla-
ceholder="Apellido">
        </div>

        <div formGroupName="direccion" class="mt-2 bd-highlight">
          <div class="form-group">
            <input type="text" formControlName="calle" class="form-control" pla-
ceholder="Calle">
          </div>
```

```html
            <div class="form-group">
               <input type="text" formControlName="zona" class="form-control" pla-
ceholder="Zona">
            </div>
            <div class="form-group">
               <input type="text" formControlName="ciudad" class="form-control" pla-
ceholder="Ciudad">
            </div>
         </div>

         <div class="d-flex flex-row bd-highlight mb-3">
            <div class="p-2 bd-highlight">
               <button type="submit" class="btn btn-info" [disabled]="!alumno-
Form.valid">Registrar</button>
            </div>
            <div class="p-2 bd-highlight">
               <button type="button" class="btn btn-secondary" (click)="actualizarA-
lumno()">Actualizar</button>
            </div>
            <div class="p-2 bd-highlight">
               <button type="button" class="btn btn-light" (click)="revert()">Lim-
piar</button>
            </div>
         </div>

      </form>

      <div>
        <p>
          Form valores: {{ alumnoForm.value | json }}
        </p>
        <p>
          Form estado: {{ alumnoForm.status }}
        </p>
      </div>

    </div>

  </div>
</div>
```