



Reactive forms

Template-driven forms

DirectivasHttpAngular × + -

localhost:4200/

COGNOS

Usuarios Registro

Nombre {}

Nombre

Campo es requerido

Nombre usuario

Nombre de usuario

Email

Email

Registrar

ng new template-driven-angular-lab

ng generate component componentes/usuario-form

ng generate component componentes/usuarios-lista

ng generate class modelo/usuario

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

import { FormsModule } from '@angular/forms'

/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/index.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+11W4y57PTFmhCaXp0ML5d60M1M7uH2+nqUivzIebhnd0JK28anvf" 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+965Dz00rT7abK41JStQIAqVgRVzpbzo5smXKp4YfRvH+8abtTE1Pi6jizo" crossorigin="anonymous"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/popper.js/1.14.7/umd/popper.min.js" integ-
  rity="sha384-U02eT0CpHqD5JQ6hJty5KVphtPhzWj9W01c1HTMga3JDZwrnQq4sF86dIHNDz0W1" crossorigin="anony-
  mous"></script>
  <script src="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/js/bootstrap.min.js" integrity="sha384-
  JjSmVgyd0p3pXB1rRibZUAYoIIy60rQ6VrjIEaFf/njGzIxFDsf4x0xIM+B07jRM" crossorigin="anonymous"></script>
</body>
</html>
```

/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 { UsuariosListaComponent } from './componentes/usuarios-lista/usuarios-lista.component';

import { HttpClientModule } from '@angular/common/http';
import { UsuarioFrmComponent } from './componentes/usuario-frm/usuario-frm.component';

import { FormsModule } from '@angular/forms';

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



/src/app/modelo/usuario.ts

```
export class Usuario {  
  
  id: number;  
  name: string;  
  username: string;  
  email: string;  
  address: {  
    street: string;  
    suite: string;  
    city: string;  
    zipcode: string;  
    geo: {  
      lat: number  
      lng: number  
    }  
  };  
  phone: string;  
  website: string;  
  company: {  
    name: string,  
    catchPhrase: string,  
    bs: string  
  };  
}
```

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

```
import { Component, OnInit } from '@angular/core';
import { Usuario } from 'src/app/modelo/usuario';

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

  usuario = new Usuario();

  constructor() { }

  ngOnInit() {

  }

  registrar(){
    console.log(JSON.stringify(this.usuario));
  }

}
```

**/src/app/componentes/usuario-frm/usuario-frm.component.html**

```
<div class="row">
  <div class="col-6">
    <form>
      <div class="form-group">
        <label for="name">Nombre</label>
        <input type="text" required minlength="3" #name="ngModel" class="form-control" name="name"
[(ngModel)]= "usuario.name" placeholder="Nombre">
        <div class="alert alert-danger" *ngIf="name.touched && !name.valid">
          Campo es requerido
        </div>
      </div>
      <div class="form-group">
        <label for="username">Nombre usuario</label>
        <input type="text" class="form-control" name="username" [(ngModel)]= "usuario.username" place-
holder="Nombre de usuario">
      </div>
      <div class="form-group">
        <label for="email">Email</label>
        <input type="text" class="form-control" name="email" [(ngModel)]= "usuario.email" place-
holder="Email">
      </div>
    </form>
    <button type="submit" class="btn btn-primary" (click)="registrar()">
      Registrar
    </button>
  </div>
  <div class="col-6">
    {{usuario | json }}
  </div>
</div>
```

/src/app/app-component.html

```
<nav class="navbar navbar-light bg-light">
  <span class="navbar-brand mb-0 h1">
    
  </span>
</nav>

<div class="container">

  <ul class="nav nav-tabs mt-2">
    <li class="nav-item">
      <a class="nav-link active" data-toggle="tab" href="#usuarios">Usu-
arios</a>
    </li>
    <li class="nav-item">
      <a class="nav-link" data-toggle="tab" href="#registro">Registro</a>
    </li>
  </ul>

  <div class="tab-content">
    <div class="container tab-pane active" id="usuarios">
      <app-usuarios-lista></app-usuarios-lista>
    </div>
    <div class="tab-pane" id="registro">
      <app-usuario-frm></app-usuario-frm>
    </div>
  </div>

</div>

<router-outlet></router-outlet>
```




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

/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 { UsuariosListaComponent } from './componentes/usuarios-lista/usuarios-lista.component';

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

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

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

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

```
import { HttpClient } from '@angular/common/http';
import { Usuario } from 'src/app/modelo/usuario';

@Component({
  selector: 'app-usuarios-lista',
  templateUrl: './usuarios-lista.component.html',
  styleUrls: ['./usuarios-lista.component.css']
})
export class UsuariosListaComponent implements OnInit {
  usuarios: Usuario[];
  usuario: Usuario;
  esInfo = false;

  constructor(private http: HttpClient) { }

  ngOnInit() {
    this.cargarUsuarios();
  }

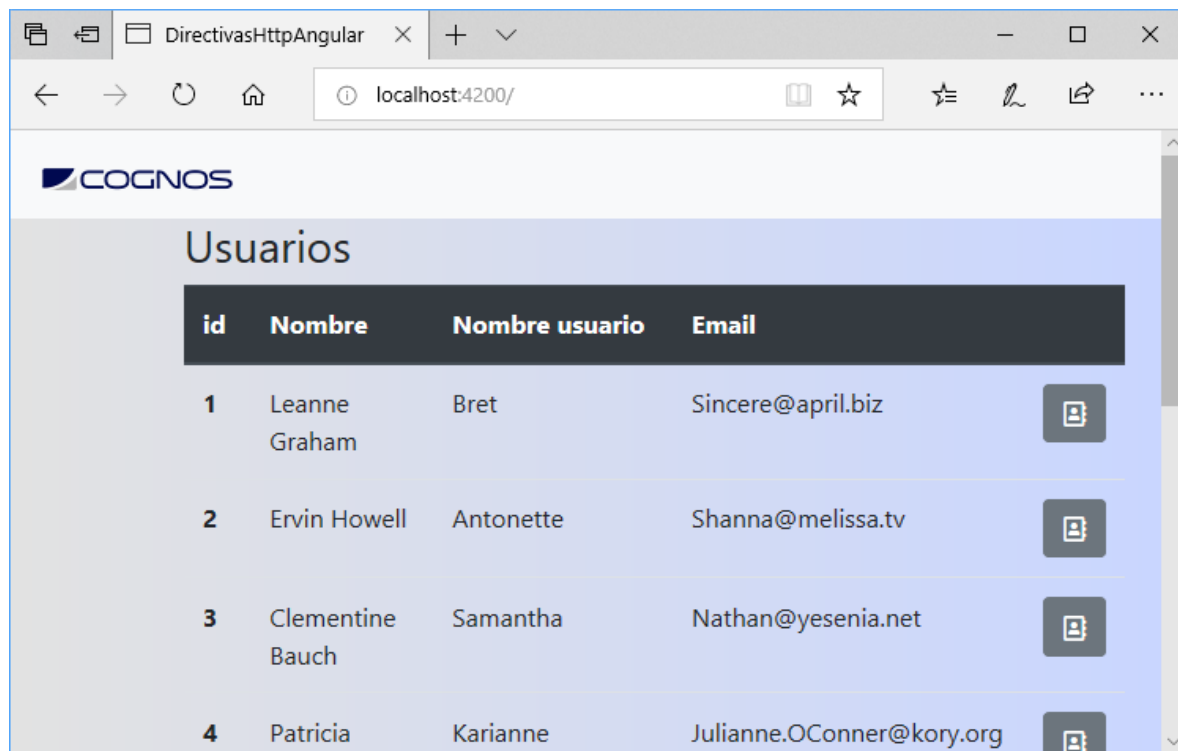
  cargarUsuarios() {
    this.http.get('https://jsonplaceholder.typicode.com/users').subscribe(result => {
      this.usuarios = result as Usuario[];
    });
  }

  verInfo(usuario: Usuario) {
    this.esInfo = true;
    this.usuario = usuario;
  }
}
```

/src/app/componentes/usuarios-lista/ usuarios-lista.component.html

```
<div class="row">
  <div class="col">
    <span *ngIf="esInfo;then info else lista"></span>
    <ng-template #lista>
      <table class="table">
        <thead class="thead-dark">
          <tr>
            <th scope="col">id</th>
            <th scope="col">Nombre</th>
            <th scope="col">Nombre usuario</th>
            <th scope="col">Email</th>
            <th></th>
          </tr>
        </thead>
        <tbody>
          <tr *ngFor="let usuario of usuarios">
            <th scope="row">{{usuario.id}}</th>
            <td>{{usuario.name}}</td>
            <td>{{usuario.username}}</td>
            <td>{{usuario.email}}</td>
            <td>
              <button class="btn btn-secondary" (click)="verInfo(usuario)">
                <i class="far fa-address-book"></i>
              </button>
            </td>
          </tr>
        </tbody>
      </table>
    </ng-template>
    <ng-template #info>
      <div class="card">
        <div class="card-header">
          <h5 class="card-title">{{ usuario.name }}</h5>
        </div>
        <ul class="list-group list-group-flush">
          <li class="list-group-item">{{ usuario.address.street }}</li>
          <li class="list-group-item">{{ usuario.address.suite }}</li>
          <li class="list-group-item">{{ usuario.address.city }}</li>
        </ul>
        <div class="card-footer text-muted">
          <a href="#" class="btn btn-primary" (click)="esInfo=false">Usuarios</a>
        </div>
      </div>
    </ng-template>
  </div>
</div>
```

```
</div>
</div>
</ng-template>
</div>
</div>
```



The screenshot shows a web browser window with the title 'DirectivasHttpAngular'. The address bar shows 'localhost:4200/'. The page displays the 'COGNOS' logo and the title 'Usuarios'. Below the title is a table with four columns: 'id', 'Nombre', 'Nombre usuario', and 'Email'. There are four rows of data, each with a corresponding user icon button on the right.

id	Nombre	Nombre usuario	Email
1	Leanne Graham	Bret	Sincere@april.biz
2	Ervin Howell	Antonette	Shanna@melissa.tv
3	Clementine Bauch	Samantha	Nathan@yesenia.net
4	Patricia	Karianne	Julianne.OConner@kory.org

