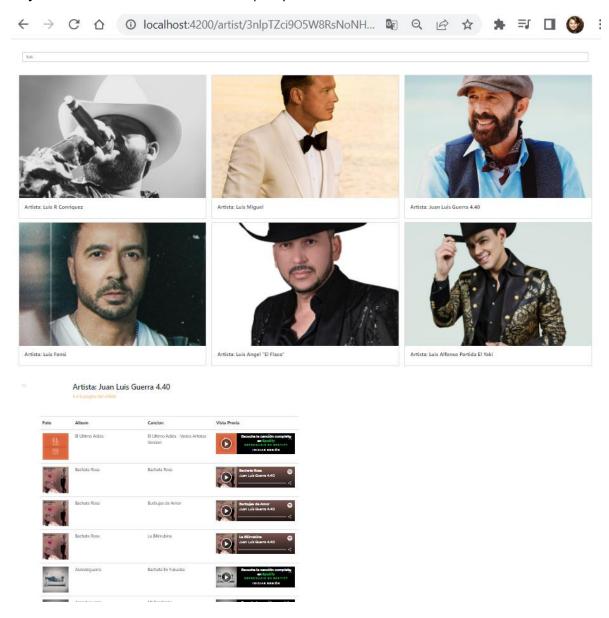
Objetivo: Consumir datos de un API de Spotify



Seguir indicaciones.

1. Crear proyecto con Routing

```
PS C:\Users\gsp_g\OneDrive\Documentos\OTecnologiasWebEneJun2022\angular2022\spoty> ng new spotify
? Would you like to add Angular routing? Yes
? Which stylesheet format would you like to use? CSS
```

2. Uso de Bootstrap versión 4.6 vía CDN

```
index.html
```

```
<link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist</pre>
  </head>
<link rel="stylesheet"</pre>
href="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/css/bootstrap.min.css"
integrity="sha384-
zCbKRCUGaJDkqS1kPbPd7TveP5iyJE0EjAuZQTgFLD2ylzuqKfdKlfG/eSrtxUkn"
crossorigin="anonymous">
 kscript src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dis
 <script src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1</pre>
 <script src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/</pre>
 </body>
<script src="https://cdn.jsdelivr.net/npm/jquery@3.5.1/dist/jquery.slim.min.js"</pre>
integrity="sha384-
DfXdz2htPH01sSSs5nCTpuj/zy4C+OGpamoFVy38MVBnE+IbbVYUew+OrCXaRkfj"
crossorigin="anonymous"></script>
<script
src="https://cdn.jsdelivr.net/npm/popper.js@1.16.1/dist/umd/popper.min.js"
integrity="sha384-
9/reFTGAW83EW2RDu2S0VKaIzap3H661ZH81PoY1FhbGU+6BZp6G7niu735Sk71N"
crossorigin="anonymous"></script>
src="https://cdn.jsdelivr.net/npm/bootstrap@4.6.1/dist/js/bootstrap.min.js"
integrity="sha384-
VHvPCCyXqtD5DqJeNx12dtTyhF78xXNXdkwX1CZeRusQfRKp+tA7hASh0K/B/fQ2"
crossorigin="anonymous"></script>
```

En el **index.html** de su proyecto colocar CDN para uso de fontawesome. Nota: Este CDN es el de mi cuenta del sitio de fontawesome, cuando tengan oportunidad crear el propio. Para esta práctica usar el mío.

En terminal de vistual studio, ___

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

PS C:\Users\gsp g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify> ng g s spotify

CREATE src/app/spotify.service.spec.ts (362 bytes)

CREATE src/app/spotify.service.ts (136 bytes)

PS C:\Users\gsp_g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify>
```

API's de Spotify

https://developer.spotify.com/console/

En el método getQuery debes colocar tu token personal de SPOTIFY que tiene de vigencia solo 1 hora

```
app > TS spotify.service.ts > ...
  import { Injectable } from '@angular/core';
  import { HttpClient, HttpHeaders } from '@angular/common/http';
  import { map } from 'rxjs/operators'; __
  @Injectable({
    providedIn: 'root'
  })
  export class SpotifyService {
    constructor(private http: HttpClient) {
      console.log("Spotify Service listo");
    getQuery(query:string){
      const url =`https://api.spotify.com/v1/${query}`;
      const headers = new HttpHeaders({'Authorization':'Bearer BQA20sv
      return this.http.get(url, {headers});
    getArtistas(termino: string){
      console.log("3");
      return this.getQuery(`search?q=${termino}&type=artist&limit=6`)
       .pipe( map ( (data:any) => (data.artists.items )));
```

```
constructor(private http: HttpClient) {
    console.log("Spotify Service listo");
  }
 getQuery(query:string){
    const url =`https://api.spotify.com/v1/${query}`;
    const headers = new HttpHeaders({'Authorization':'Bearer
BQA20svIYm9T5cZ8_BYj-
OPx9m417KUApLdgsUd7fFZpTbkKPkVcDYkkjtJEr8v2Vh6FbLMxMcgnVP5lcW8'})
    return this.http.get(url, {headers});
  }
 getArtistas(termino: string){
    return this.getQuery(`search?q=${termino}&type=artist&limit=6`)
    .pipe( map ( (data:any) => (data.artists.items )));
  }
import { map } from 'rxjs';
import { HttpClient, HttpHeaders } from '@angular/common/http';
En el app.module.ts configurar el HttpClientModule en el array de imports
 imports: [
  BrowserModule,
  AppRoutingModule,
 HttpClientModule
 ],
 import { HttpClientModule } from '@angular/common/http';
```

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

En terminal de vistual studio, crear componente search

```
PS C:\Users\gsp_g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify> ng g c search
CREATE src/app/search/search.component.html (21 bytes)
CREATE src/app/search/search.component.spec.ts (626 bytes)
CREATE src/app/search/search.component.ts (275 bytes)
CREATE src/app/search/search.component.css (0 bytes)
UPDATE src/app/app.module.ts (538 bytes)
```

En terminal de vistual studio, crear componente tarjetas

```
PS C:\Users\gsp_g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify> ng g c tarjetas CREATE src/app/tarjetas/tarjetas.component.html (23 bytes)
CREATE src/app/tarjetas/tarjetas.component.spec.ts (640 bytes)
CREATE src/app/tarjetas/tarjetas.component.ts (283 bytes)
CREATE src/app/tarjetas/tarjetas.component.css (0 bytes)
UPDATE src/app/app.module.ts (714 bytes)
```

En terminal de vistual studio, crear componente artista

```
PS C:\Users\gsp_g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify> ng g c artista CREATE src/app/artista/artista.component.html (22 bytes)

CREATE src/app/artista/artista.component.spec.ts (633 bytes)

CREATE src/app/artista/artista.component.ts (279 bytes)

CREATE src/app/artista/artista.component.css (0 bytes)

UPDATE src/app/app.module.ts (800 bytes)
```

En el app-routing.module.ts

En tarjetas.component.ts

```
import { Component, Input, OnInit } from '@angular/core';
import { Router } from '@angular/router';
@Component({
  selector: 'app-tarjetas',
 templateUrl: './tarjetas.component.html',
 styleUrls: ['./tarjetas.component.css']
})
export class TarjetasComponent implements OnInit {
 @Input() items: any[] = [];
  constructor(private router: Router) { }
 ngOnInit(): void {
  verArtista( item: any ){
   console.log("metodo verArtista de componente tarjetas");
   let artistaId;
   if(item.type === 'artist'){
    artistaId = item.id;
   else{
    artistaId = item.artists[0].id;
    this.router.navigate(['/artist',artistaId]);
```

```
@Input() items: any[] = [];
  constructor(private router: Router) { }

.

verArtista( item: any ){
  console.log("metodo verArtista de componente tarjetas");
  let artistaId;

  if(item.type === 'artist'){
    artistaId = item.id;
  }
  else{
    artistaId = item.artists[0].id;
  }
  this.router.navigate(['/artist',artistaId]);
  }
.
```

En search.component.ts

```
⇔ index.html
                TS search.component.ts X
src > app > search > TS search.component.ts > ♀ SearchComponent
       import { Component, OnInit } from '@angular/core';
       import { SpotifyService } from '../spotify.service';
   2
   3
  4
       @Component({
  5
         selector: 'app-search',
  6
         templateUrl: './search.component.html',
  7
         styleUrls: ['./search.component.css']
  8
       export class SearchComponent implements OnInit {
  9
  10
         bandera?: boolean;
 11
 12
 13
         constructor(private spotify: SpotifyService) { }
 14
         artistas: any[] = [];
 15
         buscar(termino: string){
 16
           console.log("buscar");
 17
           this.bandera = true;
 18
  19
           this.spotify.getArtistas(termino)
  20
            .subscribe ( (data:any) => {
  21
  22
             this.artistas = data;
             this.bandera=false;
  23
  24
           } );
  25
  26
         ngOnInit(): void {
  27
         }
  28
  29
  30
```

```
bandera?: boolean;

constructor(private spotify: SpotifyService) { }
  artistas: any[] = [];

buscar(termino: string){
  console.log("buscar");
  this.bandera = true;

  this.spotify.getArtistas(termino)
  .subscribe ( (data:any) => {
    this.artistas = data;
    this.bandera=false;
  } );
}

import { SpotifyService } from '../spotify.service';
```

En terminal de vistual studio, crear componente loading. Para el manejo de:



```
PS C:\Users\gsp_g\OneDrive\Documentos\0TecnologiasWebEneJun2022\angular2022\spoty\spotify> ng g c loading CREATE src/app/loading/loading.component.html (22 bytes)

CREATE src/app/loading/loading.component.spec.ts (633 bytes)

CREATE src/app/loading/loading.component.ts (279 bytes)

CREATE src/app/loading/loading.component.css (0 bytes)

UPDATE src/app/app.module.ts (624 bytes)
```

loading.component.html

style.css del proyecto

```
src > # styles.css > ...
       /* You can add global styles to this file, a
      /* Animaciones */
  3
       .animated {
  5
  6
           -webkit-animation-duration: 1s;
           animation-duration: 1s;
  7
  8
           -webkit-animation-fill-mode: both;
  9
           animation-fill-mode: both;
 10
 11
 12
       .fadeIn {
           animation-name: fadeIn;
 14
```

```
.animated {
    -webkit-animation-duration: 1s;
    animation-duration: 1s;
    -webkit-animation-fill-mode: both;
    animation-fill-mode: both;
}
.fadeIn {
    animation-name: fadeIn;
}
```

En el search.component.html

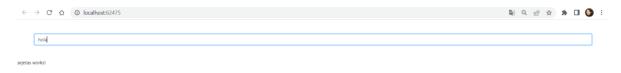
```
search.component.html ×
 src > app > components > search > ⇔ search.component.html > ...
   1 \times \( \div \) class="row m-5" >
   2 ∨
        <div class="col">
              <input #termino type="text" (keyup)="buscar(termino.value)" class="form-</pre>
• 3
   4
           </div>
      </div>
   5
   6 <app-loading *ngIf="this.bandera"></app-loading>
      <app-tarjetas *ngIf="!this.bandera" [items]="this.artistas"></app-tarjetas>
<div class="row m-5" >
    <div class="col">
         <input #termino type="text" (keyup)="buscar(termino.value)"</pre>
class="form-control" placeholder="Buscar Artista...">
    </div>
</div>
<app-loading *ngIf="this.bandera"></app-loading>
<app-tarjetas *ngIf="!this.bandera" [items]="this.artistas"></app-tarjetas>
```

En el app.component.html

Si expiro tu token, actualizarlo en el servicio

Levantar el servidor

Así se ve



Borrar el tarjetas Works



Agregar dos métodos mas al spotify.service.ts

```
getArtista(id: string){
    return this.getQuery(`artists/${id}`);
}

getTopTracks ( id:string){
    return this.getQuery(`artists/${id}/top-tracks?country=us`)
    .pipe( map ( (data:any) => data['tracks']));
}
```

En **getArtistas** imprimir la variable termino y revisarla en consola.

```
getArtistas(termino: string){
   console.log(termino);
   return this.getQuery(`search?q=${termino}&type=artist&limit=6`)
   .pipe( map ( (data:any) => (data.artists.items )));
}
```

Dentro de la clase de artista.component.ts, colocar el siguiente código

```
artista: any = {};
  loadingArtist: boolean;
  topTracks: any[] = [];
  constructor(private router: ActivatedRoute,
              private spotify: SpotifyService) {
    this.loadingArtist = true;
    this.router.params.subscribe( params => {
      this.getArtista( params['id']);
      this.getTopTracks( params['id']);
      console.log("llego" + params['id']);
    });
   }
  ngOnInit(): void {
  getArtista( id: string){
    this.loadingArtist = true;
    this.spotify.getArtista(id).subscribe( artista => {
      console.log(artista);
      this.artista = artista;
      this.loadingArtist = false;
    });
  }
  getTopTracks( id: string){
    this.spotify.getTopTracks(id).subscribe( topTracks => {
      console.log(topTracks);
      this.topTracks = topTracks;
    });
  }
import { ActivatedRoute } from '@angular/router';
import { SpotifyService } from '../spotify.service';
```

```
 \underline{\text{PS }\underline{\text{C:}\underline{\text{Users}gsp g}\underline{\text{OneDrive}\underline{\text{Documentos}\underline{\text{O}TecnologiasWebEneJun2022}\underline{\text{angular2022}\underline{\text{spoty}\underline{\text{spotify}}}} } \ \text{ng g c picture} 
CREATE src/app/picture/picture.component.html (22 bytes)
CREATE src/app/picture/picture.component.spec.ts (633 bytes)
CREATE src/app/picture/picture.component.ts (279 bytes)
CREATE src/app/picture/picture.component.css (0 bytes)
UPDATE src/app/app.module.ts (1098 bytes)
Dentro de la clase del componente PictureComponent.ts
  @Input() width = '';
  @Input() paddingTop = '';
  @Input() maxWidth = '';
  @Input() minWidth = '';
  @Input() src = '';
  @Input() alt = 'alt';
  constructor() { }
  ngOnInit(): void {
  get imageConfig(){
     return {
        width:this.width,
        'padding-top':this.paddingTop,
        'max-width':this.maxWidth,
        'min-width':this.minWidth
     }
  }
import { Component, Input, OnInit } from '@angular/core';
En el picture.component.html
<div [ngStyle]="imageConfig" style="position: relative; background-color:</pre>
lightgray;">
     <img style="position: absolute;width: 100%;height: 100%;top: 0;object-</pre>
```

fit: cover;" [src]="src" [alt]="alt">

</div>

tarjetas.component.ts

```
Agregar el siguiente método ...
```

```
showCard(item:any){
    return item && item.images && item.images.length > 0
  }
tarjetas.component.html
<div class="card-columns m-5 animated fadeIn">
    <ng-container *ngFor="let item of items">
        <div (click)="verArtista( item )" class="card</pre>
puntero" *ngIf="showCard(item)">
            <app-picture width="100%" paddingTop="66%"</pre>
[src]="item.images[0].url"></app-picture>
            <div class="card-body">
              <h5 class="card-title">Artista: {{item.name}} </h5>
              <span *ngFor="let artista of item.artists" class="badge"</pre>
badge-primary"> {{artista.name}} </span>
              </div>
          </div>
    </ng-container>
```

Crear un pipe para seguridad del audio

</div>

```
app > TS domseguro.pipe.ts > ...
   import { Pipe, PipeTransform } from '@angular/core';
   import { DomSanitizer } from '@angular/platform-browser';

@Pipe({
    name: 'domseguro'
})
   export class DomseguroPipe implements PipeTransform {
    constructor(private domSanitizer: DomSanitizer){}

    transform(value: unknown, url: string): unknown {
        console.log('ENTRE AL PIPE');
        return this.domSanitizer.bypassSecurityTrustResourceUrl(url + value);
}

.
.
.
.
import { DomSanitizer } from '@angular/platform-browser';
```

artista.component.html

```
<app-loading *ngIf="loadingArtist"></app-loading>
<div class="row animated fadeIn" *ngIf="!loadingArtist">
   <div class="col-2">
      <img class="img-thumbnail img-circle" [src]="this.artista.images" alt="">
   </div>
   <div class="col">
      <h3> Artista: {{artista.name}} </h3>
         <a [href]="artista.external_urls.spotify" class="text-warning" target="_blank"> Ir a la
pagina del artista </a>
      </div>
</div>
<div class="row m-5">
   <div class="col">
      <thead>
             Foto
                Album
                Cancion
                Vista Previa
             </thead>
          <app-picture maxWidth="100px" minWidth="100px" width="100%"</pre>
paddingTop="100%" [src]="track.album.images[0].url"></app-picture>
                {{ track.album.name }} 
                {{ track.name }} 
                >
                   <iframe [src]="track.id | domseguro:'https://open.spotify.com/embed/track/'"</pre>
width="300" height="80" frameborder="0" allowtransparency="true" allow="encrypted-media"></iframe>
                </div>
</div>
```