

DESARROLLO DE APLICACIONES WEB

ING. GEOVANNY BRAVO, MG.

ACTIVIDAD AUTÓNOMA # 2

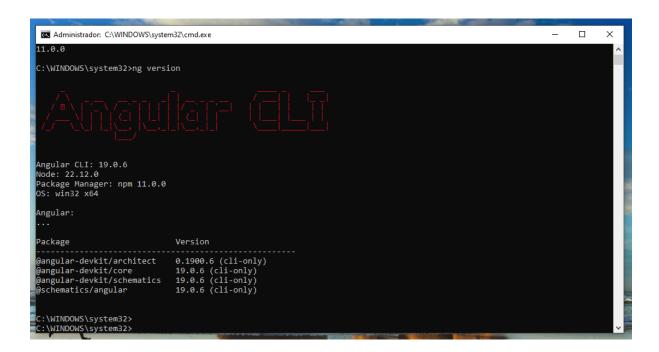
UNIDAD 3: ARQUITECTURA ORIENTADA A MICROSERVICIOS WEB Y MANEJO DE ESTADOS

ANTONIO JOSÉ VILLÓN YAGUAL 28 DE DICIEMBRE DEL 2024

PROYECTO EN ANGULAR

1. INSTALAR ANGULAR

Se instala Angular mediante el Símbolo del Sistema:



2. EJECUCIÓN DEL FRAMEWORK

Creamos un nuevo proyecto Angular:

- En la terminal, ejecuta: ng new practica-angular
- Respondemos a las preguntas del CLI y elegimos las opciones con routing y CSS como preprocesador.

```
Mould you like to share pseudonymous usage data about this project with the Angular Team
at coogle under Google's Privacy Policy at https://policias.google.com/privacy.for more
details and how to change this setting, see https://policias.google.com/privacy.for more
details and how to change this setting, see https://angular.dev/cli/analytics.

Yes

Thank you for sharing pseudonymous usage data. Should you change your mind, the following
command will disable this feature entrely:

ng analytics disable --global

Global setting: No local workspace configuration file.

Effective status: enabled
Local setting: No local workspace configuration file.

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Ejecutar el proyecto:

- Navega al directorio del proyecto: cd practica-angular
- Ejecuta el servidor de desarrollo: ng serve

```
ov. npm
C:\ProyectoAngular>cd practica-angular
C:\ProyectoAngular\practica-angular>ng serve
Would you like to share pseudonymous usage data about this project with the Angular Team
at Google under Google's Privacy Policy at https://policies.google.com/privacy. For more
details and how to change this setting, see https://angular.dev/cli/analytics.
Thank you for sharing pseudonymous usage data. Should you change your mind, the following command will disable this feature entirely:
     ng analytics disable
Global setting: enabled
 ocal setting: enabled
Effective status: enabled
Initial chunk files | Names
                                                                    Raw size
                                  polyfills
                                                                    90.20 kB
18.32 kB
                                  main
                                 styles
                                | Initial total | 108.61 kB
                                                              | Kaw size
| 572.91 kB |
| 19.55 kB |
| 1.86
Initial chunk files | Names
  olyfills.server.mjs | polyfills.server
ain.server.mjs | main.server
arver.mjs | server
Application bundle generation complete. [8.511 seconds]
Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.

Local: http://localhost:4200/
press h + enter to show help
```

• Abre un navegador y visita http://localhost:4200 para ver tu aplicación Angular funcionando.



3. REALIZAR 3 VISTAS CON SUS RUTAS CONFIGURADAS

Creamos tres componentes para las vistas: Inicio, Lista de Pokémon, y Detalles del Pokémon.

```
C:\ProyectoAngular\practica-angular>
C:\ProyectoAngular\practica-angular>
C:\ProyectoAngular\practica-angular>ng generate component inicio
CREATE src/app/inicio/inicio.component.html (22 bytes)
CREATE src/app/inicio/inicio.component.spec.ts (615 bytes)
CREATE src/app/inicio/inicio.component.ts (225 bytes)
CREATE src/app/inicio/inicio.component.css (0 bytes)

C:\ProyectoAngular\practica-angular>ng generate component lista
CREATE src/app/lista/lista.component.html (21 bytes)
CREATE src/app/lista/lista.component.spec.ts (608 bytes)
CREATE src/app/lista/lista.component.spec.ts (608 bytes)
CREATE src/app/lista/lista.component.css (0 bytes)

C:\ProyectoAngular\practica-angular>ng generate component detalles
CREATE src/app/detalles/detalles.component.html (24 bytes)
CREATE src/app/detalles/detalles.component.spec.ts (629 bytes)
CREATE src/app/detalles/detalles.component.ts (233 bytes)
CREATE src/app/detalles/detalles.component.css (0 bytes)

C:\ProyectoAngular\practica-angular>
C:\ProyectoAngular\practica-angular>
C:\ProyectoAngular\practica-angular>
C:\ProyectoAngular\practica-angular>
```

Para las configuraciones, utilizaremos Visual Studio Code.

Se configura las rutas correspondientes:

4. CONECTAR CON UN API REST PUBLICO

Se configura el servicio:

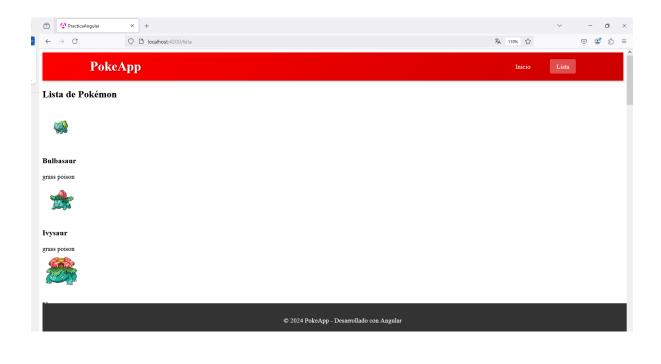
Se adjunta capturas del código utilizado para la creación de este proyecto:

```
TS lista.component.ts X
src > app > components > lista > T$ lista.component.ts > ધ ListaComponent
       import { Component, OnInit } from '@angular/core';
       import { CommonModule } from '@angular/common';
       import { RouterModule } from '@angular/router';
       import { PokemonService } from '.../../services/pokemon.service';
       @Component({
         standalone: true,
         imports: [CommonModule, RouterModule],
        templateUrl: './lista.component.html',
        styleUrls: ['./lista.component.css']
       export class ListaComponent implements OnInit {
         pokemons: any[] = [];
         loading: boolean = false;
         constructor(private pokemonService: PokemonService) { }
         ngOnInit(): void {
           this.loading = true;
           this.pokemonService.getPokemons(20, 0).subscribe(
             (response: any) => {
               response.results.forEach((pokemon: any) => {
                 const id = pokemon.url.split('/')[6];
                 this.pokemonService.getPokemonDetails(id).subscribe(
                   (details: any) => {
                     this.pokemons.push({
                      id: details.id,
                       name: details.name,
                       image: details.sprites.front_default,
                       types: details.types
               this.loading = false;
```

```
inicio.component.html ×
src > app > components > inicio > 🥠 inicio.component.html > 🤣 div.inicio-container > 🚱 div.features-grid > 🚱 div.feature-card > 🚱 img
       <div class="inicio-container"
           <div class="welcome-section">
             <h1>;Bienvenido a PokeApp!</h1>
             \ensuremath{\mbox{\sc p}}\xsp{\sc Explora} el mundo Pokémon y descubre información sobre tus Pokémon favoritos.\ensuremath{\mbox{\sc p}}\xsp{\sc Pokémon}
           <div class="features-grid">
             <div class="feature-card">
               <img src="assets/pokeball.png" alt="Pokeball">
  9
                <h3>Lista Pokémon</h3>
                Explora nuestra extensa lista de Pokémon
               <a routerLink="/lista" class="feature-button">Ver Lista</a>
             <div class="feature-card">
               <img src="assets/pokedex.png" alt="Pokedex">
               <h3>Detalles</h3>
               Conoce los detalles de cada Pokémon
               <a routerLink="/lista" class="feature-button">Explorar</a>
```

```
TS detalles.component.ts X
src > app > components > detalles > TS detalles.component.ts > ♦ DetallesComponent
      import { Component, OnInit } from '@angular/core';
      import { CommonModule } from '@angular/common';
      import { RouterModule, ActivatedRoute } from '@angular/router';
      import { PokemonService } from '.../../services/pokemon.service';
      @Component({
        selector: 'app-detalles',
        standalone: true,
        imports: [CommonModule, RouterModule],
        templateUrl: './detalles.component.html',
        styleUrls: ['./detalles.component.css']
      export class DetallesComponent implements OnInit {
        pokemon: any;
        constructor(
          private route: ActivatedRoute,
          private pokemonService: PokemonService
        ngOnInit(): void {
          const id = this.route.snapshot.paramMap.get('id');
             this.pokemonService.getPokemonDetails(Number(id)).subscribe(
              data => this.pokemon = data
```

```
# app.component.css X
     src > app > # app.component.css > 😭 .footer
            .navbar {
                 background: linear-gradient(135deg, ■#ff0000 0%, ■#cc0000 100%);
                 padding: 1rem 0;
                 box-shadow: 0 2px 5px □rgba(0,0,0,0.2);
               .nav-container {
                max-width: 1200px;
                margin: 0 auto;
                padding: 0 1rem;
                display: flex;
                 justify-content: space-between;
                 align-items: center;
              .app-title {
                color: ■white;
                 font-size: 2rem;
                 margin: 0;
                 text-shadow: 2px 2px 4px □rgba(0,0,0,0.3);
               .nav-links {
               display: flex;
                 gap: 2rem;
              .nav-links a {
                color: ☐white;
                 text-decoration: none;
                 padding: 0.5rem 1rem;
                 border-radius: 4px;
                 transition: all 0.3s ease;
               .nav-links a:hover {
                background-color: ☐ rgba(255,255,255,0.2);
PracticaAngular
                  × +
← → C
                 O 🗅 localhost:4200/inicio
                                                                                              Ä<sub>A</sub> 110% ☆
                                                                                                                 ତ © ପ ≡
          PokeApp
                                            ¡Bienvenido a PokeApp!
                                       Explora el mundo Pokémon y descubre información sobre tus Pokémon favoritos.
                        Explora nuestra extensa lista de Pokémon
                                                                            Conoce los detalles de cada Pokémon
                                                   © 2024 PokeApp - Desarrollado con Angular
```





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TAREA SUBIDA A UN GIT Y ENLACE DEL REPOSITORIO

https://github.com/AntonioVillon/ ProyectoAngular.git

