

# PRÁCTICA 04

*Angular*

MAESTRA: DIANA XÓCHITL RUANO VARGAS

MATERIA: APLICACIONES WEB

ALUMNO: DIEGO EFRAÍN HERNÁNDEZ HERNÁNDEZ

TIID\_04\_01

ENERO - ABRIL 2026

# TERMINAL VS (ANGULAR FUNCIONANDO)

The screenshot shows a terminal window within a code editor interface, likely Visual Studio Code, displaying the process of creating and running an Angular application.

**Terminal Output:**

```
PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez> ng new practica04-angular
  Which stylesheet system would you like to use? CSS [ https://developer.mozilla.org/docs/Web/CSS ]
  Do you want to enable Server-Side Rendering (SSR) and Static Site Generation (SSG/Prerendering)? Yes
  Which AI tools do you want to configure with Angular best practices? https://angular.dev/ai/develop-with-ai None
CREATE practica04-angular/angular.json (2172 bytes)
CREATE practica04-angular/package.json (1214 bytes)
CREATE practica04-angular/README.md (1529 bytes)
CREATE practica04-angular/tsconfig.json (990 bytes)
CREATE practica04-angular/.editorconfig (331 bytes)
CREATE practica04-angular/.gitignore (666 bytes)
CREATE practica04-angular/tsconfig.app.json (464 bytes)
CREATE practica04-angular/tsconfig.spec.json (456 bytes)
CREATE practica04-angular/.vscode/extensions.json (134 bytes)
CREATE practica04-angular/.vscode/launch.json (490 bytes)
CREATE practica04-angular/.vscode/mcp.json (191 bytes)
CREATE practica04-angular/.vscode/tasks.json (1020 bytes)
CREATE practica04-angular/src/main.ts (228 bytes)
CREATE practica04-angular/src/index.html (316 bytes)
CREATE practica04-angular/src/styles.css (81 bytes)
CREATE practica04-angular/src/main.server.ts (300 bytes)
CREATE practica04-angular/src/server.ts (1677 bytes)
CREATE practica04-angular/src/app/app.spec.ts (708 bytes)
CREATE practica04-angular/src/app/app.ts (312 bytes)
CREATE practica04-angular/src/app/app.css (0 bytes)
CREATE practica04-angular/src/app/app.html (20446 bytes)
CREATE practica04-angular/src/app/app.config.ts (453 bytes)
CREATE practica04-angular/src/app/app.routes.ts (80 bytes)
CREATE practica04-angular/src/app/app.config.server.ts (438 bytes)
CREATE practica04-angular/src/app/app.routes.server.ts (174 bytes)
CREATE practica04-angular/public/favicon.ico (15086 bytes)
✓ Packages installed successfully.

Directory is already under version control. Skipping initialization of git.
PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez> cd practica04-angular
PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-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.
```

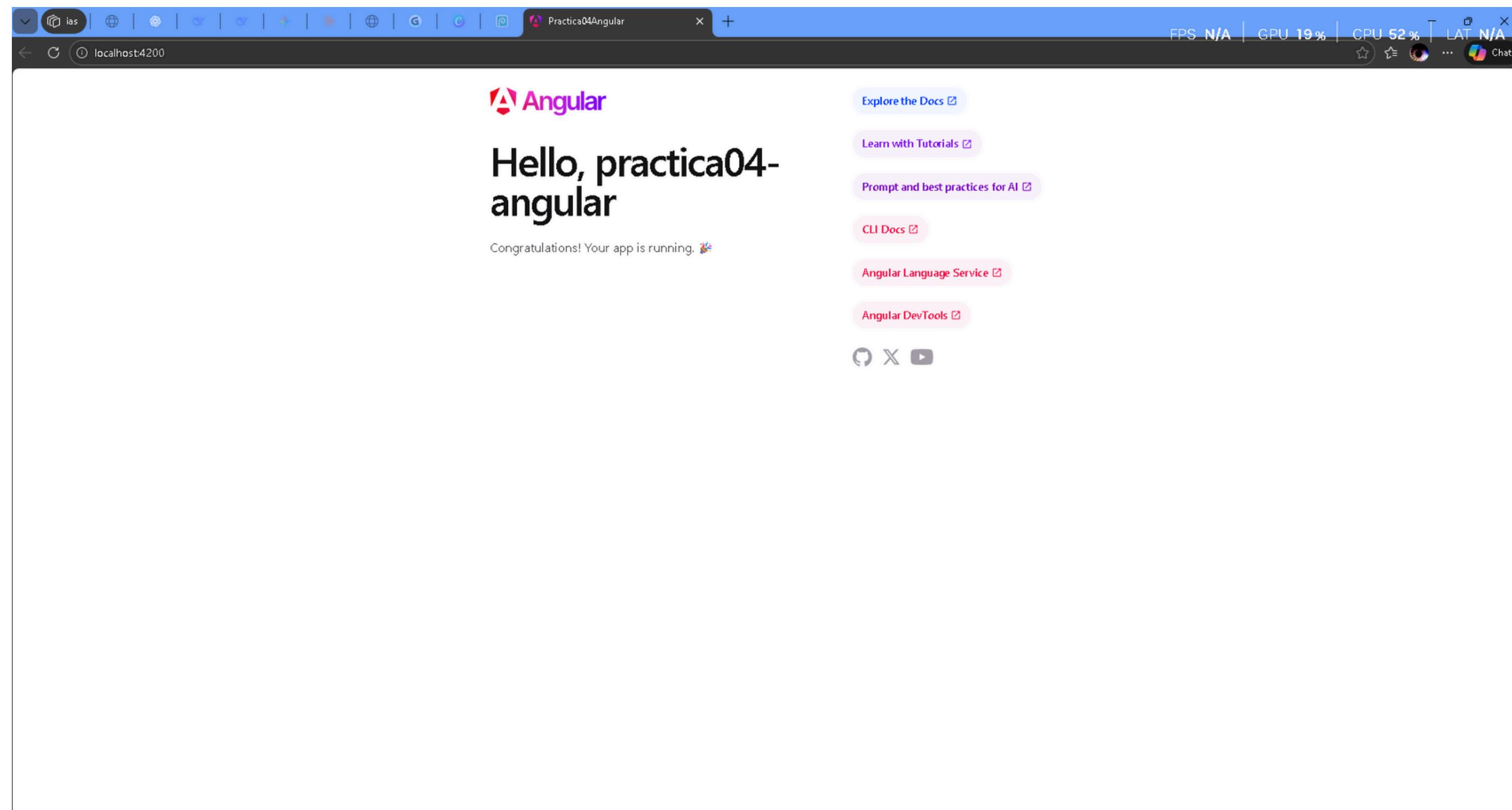
**Bottom Panel (Output):**

```
No
Global setting: enabled
Local setting: disabled
Effective status: disabled
Browser bundles
Initial chunk files | Names | Raw size
main.js | main | 48.53 kB |
styles.css | styles | 95 bytes |
| Initial total | 48.62 kB |

Server bundles
Initial chunk files | Names | Raw size
main.server.mjs | main.server | 49.79 kB |
server.mjs | server | 1.81 kB |
polyfills.server.mjs | polyfills.server | 243 bytes |

Application bundle generation complete. [2.737 seconds] - 2026-01-22T19:29:29.321Z
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
```

# ANGULAR



# CÓDIGO VS

The screenshot shows the VS Code interface with the following details:

- File Explorer (Left):** Shows the project structure with files like .angular, .vscode, node\_modules, public, src, .editorconfig, .gitignore, angular.json, package-lock.json, package.json, README.md, tsconfig.app.json, tsconfig.json, tsconfig.spec.json, .gitattributes, PRÁCTICA 01-INSTALACIÓN..., and PRÁCTICA 02-HTML Y CSS....
- Code Editor (Right):** Displays the contents of the angular.json file for the project "practica04-angular". The code is as follows:

```
9  "projects": {  
10    "practica04-angular": {  
11      "projectType": "application",  
12      "schematics": {},  
13      "root": "",  
14      "sourceRoot": "src",  
15      "prefix": "app",  
16      "architect": {  
17        "build": {  
18          "builder": "@angular/build:application",  
19          "options": {  
20            "browser": "src/main.ts",  
21            "tsConfig": "tsconfig.app.json",  
22            "assets": [  
23              {  
24                "glob": "**/*",  
25                "input": "public"  
26              }  
27            ],  
28            "styles": [  
29              "node_modules/bootstrap/dist/css/bootstrap.min.css",  
30              "src/styles.css"  
31            ],  
32            "scripts": [  
33              "node_modules/bootstrap/dist/js/bootstrap.bundle.min.js"  
34            ],  
35            "server": "src/main.server.ts",  
36            "outputMode": "server",  
37            "ssr": {  
38              "entry": "src/server.ts"  
39            }  
40          },  
41          "configurations": {  
42            "production": {  
43              "optimization": true,  
44              "outputHashing": "all",  
45              "sourceMap": false,  
46              "namedChunks": true,  
47              "extractCss": true,  
48              "serviceWorker": true,  
49              "aot": true  
50            }  
51          }  
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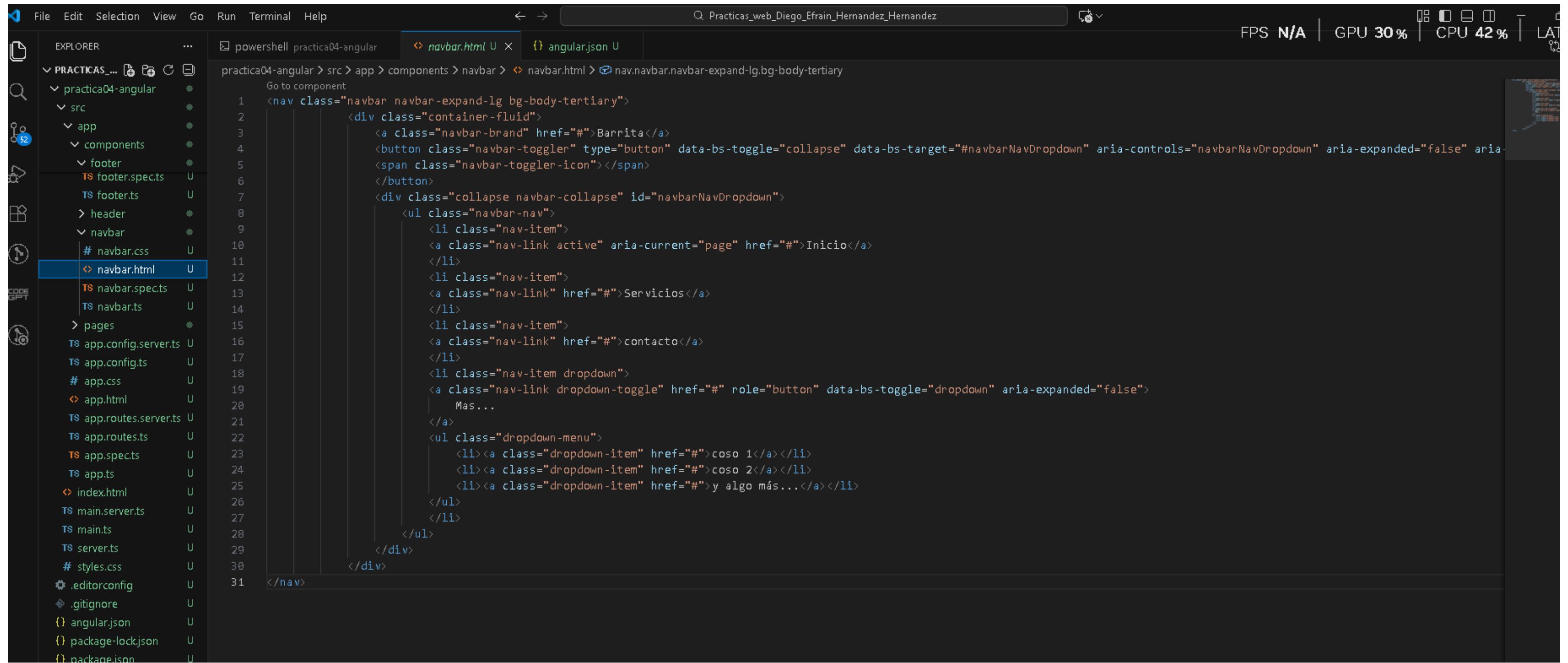
```
lection View Go Run Terminal Help ← → Q Practicas_web_Diego_Efrain_Hernandez Hernandez

... powershell practica04-angular X {} angular.json U index.html M

WEB DIEGO_EFRAIN...
1
2
3 Application bundle generation complete. [2.022 seconds] - 2026-01-22T19:51:10.105Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
1:51:10 PM [vite] (client) Re-optimizing dependencies because lockfile has changed
1:51:10 PM [vite] (ssr) Re-optimizing dependencies because lockfile has changed (x2)
  → Local: http://localhost:4200/
  → press h + enter to show help
PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular> ng generate component components/header
>> ng generate component components/navbar
CREATE src/app/components/header/header.spec.ts (554 bytes)
CREATE src/app/components/header/header.ts (197 bytes)
CREATE src/app/components/header/header.css (0 bytes)
CREATE src/app/components/header/header.html (22 bytes)
CREATE src/app/components/navbar/navbar.spec.ts (554 bytes)
CREATE src/app/components/navbar/navbar.ts (197 bytes)
CREATE src/app/components/navbar/navbar.css (0 bytes)
CREATE src/app/components/navbar/navbar.html (22 bytes)
CREATE src/app/components/footer/footer.spec.ts (554 bytes)
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CREATE src/app/components/footer/footer.css (0 bytes)
CREATE src/app/components/footer/footer.html (22 bytes)
PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular>
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○ PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular>
○ PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular>
○ PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular> ng generate component pages/home
  >> ng generate component pages/contact
● >> ng generate component pages/listado
CREATE src/app/pages/home/home.spec.ts (540 bytes)
CREATE src/app/pages/home/home.ts (189 bytes)
CREATE src/app/pages/home/home.css (0 bytes)
CREATE src/app/pages/home/home.html (20 bytes)
CREATE src/app/pages/contact/contact.spec.ts (561 bytes)
CREATE src/app/pages/contact/contact.ts (201 bytes)
CREATE src/app/pages/contact/contact.css (0 bytes)
CREATE src/app/pages/contact/contact.html (23 bytes)
CREATE src/app/pages/listado/listado.spec.ts (561 bytes)
CREATE src/app/pages/listado/listado.ts (201 bytes)
CREATE src/app/pages/listado/listado.css (0 bytes)
CREATE src/app/pages/listado/listado.html (23 bytes)
○ PS C:\Users\shado\OneDrive\Documentos\GitHub\Practicas_web_Diego_Efrain_Hernandez_Hernandez\practica04-angular>
```

# CÓDIGO VS



The screenshot shows a dark-themed code editor interface with the following details:

- File Bar:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** Practicas\_web\_Diego\_Efrain\_Hernandez\_Hernandez
- Performance Metrics:** FPS N/A, GPU 30%, CPU 42%, LAT.
- Explorer:** Shows the project structure under "PRACTICAS...". The "src" folder contains "app", which has "components", "footer", "header", "navbar", and "pages". "components" contains "navbar" which has "navbar.css" and "navbar.html". Other files include "app.config.server.ts", "app.config.ts", "app.css", "app.html", "app.routes.server.ts", "app.routes.ts", "app.spec.ts", "app.ts", "index.html", "main.server.ts", "main.ts", "server.ts", and ".editorconfig".
- Code Editor:** The "navbar.html" file is open. The code is as follows:

```
<nav class="navbar navbar-expand-lg bg-body-tertiary">
  <div class="container-fluid">
    <a class="navbar-brand" href="#">Barrita</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNavDropdown" aria-controls="navbarNavDropdown" aria-expanded="false" aria-label="Toggle navigation">
      <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="navbarNavDropdown">
      <ul class="navbar-nav">
        <li class="nav-item">
          <a class="nav-link active" aria-current="page" href="#">Inicio</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Servicios</a>
        </li>
        <li class="nav-item">
          <a class="nav-link" href="#">Contacto</a>
        </li>
        <li class="nav-item dropdown">
          <a class="nav-link dropdown-toggle" href="#" role="button" data-bs-toggle="dropdown" aria-expanded="false">
            Mas...
          </a>
          <ul class="dropdown-menu">
            <li><a class="dropdown-item" href="#">caso 1</a></li>
            <li><a class="dropdown-item" href="#">caso 2</a></li>
            <li><a class="dropdown-item" href="#">y algo más...</a></li>
          </ul>
        </li>
      </ul>
    </div>
  </div>
</nav>
```

# CÓDIGO VS

File Edit Selection View Go Run Terminal Help

EXPLORER

powershell practica04-angular footer.html angular.json

practica04-angular > src > app > components > footer > footer.html > footer.bg

Go to component

```
1 <footer class="bg-dark text-white text-center p-3">
2 |   <p class="mb-0">© 2026 Aplicaciones Web</p>
3 </footer>
```

# footer.css

TS footer.specs

TS footer.ts

header

File Edit Selection View Go Run Terminal Help

EXPLORER

powershell practica04-angular header.html angular.json

practica04-angular > src > app > components > header > header.html > header

Go to component

```
1 <header>
2 |   <h1>Mi sitio web GG</h1>
3 </header>
```

# header.css

TS header.specs

TS header.ts

File Edit Selection View Go Run Terminal Help

EXPLORER

powershell practica04-angular home.html angular.json

practica04-angular > src > app > pages > home > home.html > main.container.mt-4

Go to component

```
1 <main class="container mt-4">
2 |   <div class="row">
3 |     <section class="col-md-8">
4 |       <div class="card mb-3">
5 |         <div class="card-body">
6 |           <h5 class="card-title">Bienvenido</h5>
7 |           <p class="card-text">
8 |             Esta es mi primera interfaz web mejorada con Bootstrap.
9 |           </p>
10 |           
11 |         </div>
12 |       </div>
13 |     </section>
14 |
15 |     <aside class="col-lg-4 col-md-6 d-md-block d-none">
16 |       <div class="card" style="width: auto">
17 |         
18 |         <div class="card-body">
19 |           <h5 class="card-title">Información secundaria</h5>
20 |           <p class="card-text">Contenido adicional</p>
21 |           <a href="#" class="btn btn-primary">Acceder</a>
22 |         </div>
23 |       </div>
24 |     </aside>
25 |
26 |   </main>
```

# home.css

TS home.specs

TS home.ts

listado

# listado.css

TS listado.specs

TS listado.ts

TS app.config.server.ts

TS app.config.ts

# app.css

TS app.html

TS app.routes.server.ts

# CÓDIGO VS

The image shows two side-by-side views of a VS Code interface, illustrating the difference between a manual project structure and a generated one.

**Left Window (Manual Project Structure):**

- File Explorer shows a folder named "PRACTICAS\_WEB\_DIEGO\_EFRAIN..." containing "Practica01", "Practica02", "Practica03" (with a blue circular icon), "practica04-angular", ".angular", ".vscode", "node\_modules", "public", and "src".
- The "src" folder contains "app" (with a yellow circular icon), "components", "footer", "header", "navbar", "pages", "app.config.server.ts", "app.config.ts", "#app.css", "app.html" (highlighted in grey), "app.routes.server.ts", and "app.routes.ts".
- The "app.html" file in the editor shows the following code:

```
<app-header></app-header>
<app-navbar></app-navbar>
<main class="container my-4">
  <router-outlet></router-outlet>
</main>
<app-footer></app-footer>
```

**Right Window (Generated Project Structure):**

- File Explorer shows a folder named "PRACTICAS\_WEB\_DIEGO\_EFRAIN..." containing "Practica01", "Practica02", "Practica03" (with a blue circular icon), "css", "img", "index.html" (highlighted in grey), and "practica04-angular".
- The "practica04-angular" folder contains ".angular", ".vscode", "node\_modules", "public", and "src".
- The "src" folder contains "app" (with a yellow circular icon), "components", "footer", "header", "navbar", "pages", "app.config.server.ts", "app.config.ts", "#app.css", "app.html" (highlighted in grey), "app.routes.server.ts", and "app.routes.ts".
- The "angular.json" file in the editor shows the following configuration:

```
{
  "projects": {
    "practica04-angular": {
      "projectType": "application",
      "schematics": {},
      "root": "",
      "sourceRoot": "src",
      "prefix": "app",
      "architect": {
        "build": {
          "builder": "@angular/build:application",
          "options": {}
        },
        "browser": "src/main.ts",
        "tsConfig": "tsconfig.app.json",
        "assets": [
          {
            "glob": "**/*",
            "input": "public"
          }
        ],
        "styles": [
          "node_modules/bootstrap/dist/css/bootstrap.min.css",
          "src/styles.css"
        ],
        "scripts": [
          "node_modules/bootstrap/dist/js/bootstrap.bundle.min.js"
        ],
        "server": "src/main.server.ts",
        "outputMode": "server",
        "ssr": {
          "entry": "src/server.ts"
        }
      }
    }
  }
}
```

# CÓDIGO VS

The screenshot shows the Visual Studio Code interface with the following details:

- File Menu:** File, Edit, Selection, View, Go, Run, Terminal, Help.
- Search Bar:** A search bar with arrows for navigation.
- Explorer:** On the left, it shows a tree view of the project structure under "PRACTICAS\_WEB\_DIEGO\_EFRAIN...". The "src" folder is expanded, showing "app" > "components" > "navbar".
- Editor:** The main area displays the content of "navbar.ts".
- Status Bar:** Shows file paths like "esbuild practica04-angular" and "navbar.html U" and "navbar.ts U".

```
import { Component } from '@angular/core';
import { RouterLink } from "@angular/router";
@Component({
  selector: 'app-navbar',
  standalone:true,
  imports: [RouterLink],
  templateUrl: './navbar.html',
  styleUrls: ['./navbar.css'],
})
export class Navbar {

}

-----  

<a class="nav-link active" aria-current="page" routerLink="#">Inicio</a>
</li>
<li class="nav-item">
<a class="nav-link" routerLink="/listado">listado</a>
</li>
<li class="nav-item">
<a class="nav-link" routerLink="/contacto">contacto</a>
</li>
```

# CÓDIGO VS

The image shows two instances of the Microsoft Visual Studio Code (VS Code) code editor side-by-side, illustrating the differences between two files: `app.routes.ts` and `navbar.ts`.

**Left Window (app.routes.ts):**

```
File Edit Selection View Go Run Terminal Help ← → 🔍

EXPLORER PRACTICAS_WEB_DIEGO_EFRAIN... esbuild practica04-angular TS app.routes.ts U × navbar.html U

practica04-angular > src > app > TS app.routes.ts > ...
1 import { Routes } from '@angular/router';
2 import { Home } from './pages/home/home';
3 import { Contact } from './pages/contact/contact';
4 import { Listado } from './pages/listado/listado';
5
6
7 export const routes: Routes = [
8 { path: '', component: Home },
9 { path: 'contacto', component: Contact },
10 { path: 'listado', component: Listado }
11];
```

**Right Window (navbar.ts):**

```
File Edit Selection View Go Run Terminal Help ← → 🔍

EXPLORER PRACTICAS_WEB_DIEGO_EFRAIN... esbuild practica04-angular TS navbar.ts U ×

practica04-angular > src > app > components > navbar > TS navbar.ts > ...
1 import { Component } from '@angular/core';
2 import { RouterLink } from "@angular/router";
3
4 @Component({
5   selector: 'app-navbar',
6   standalone:true,
7   imports: [RouterLink],
8   templateUrl: './navbar.html',
9   styleUrls: ['./navbar.css'],
10 })
11 export class Navbar {
12
13 }
14
```

# PÁGINA

Área de trabajo | Practica04Angular | + | Chat

localhost:4200/#

## Mi sitio web GG

Barrita Inicio listado contacto Mas... ▾

**Bienvenido**

Esta es mi primera interfaz web mejorada con Bootstrap.



Tantas estrellas... y tú eres la que más... ^\_~



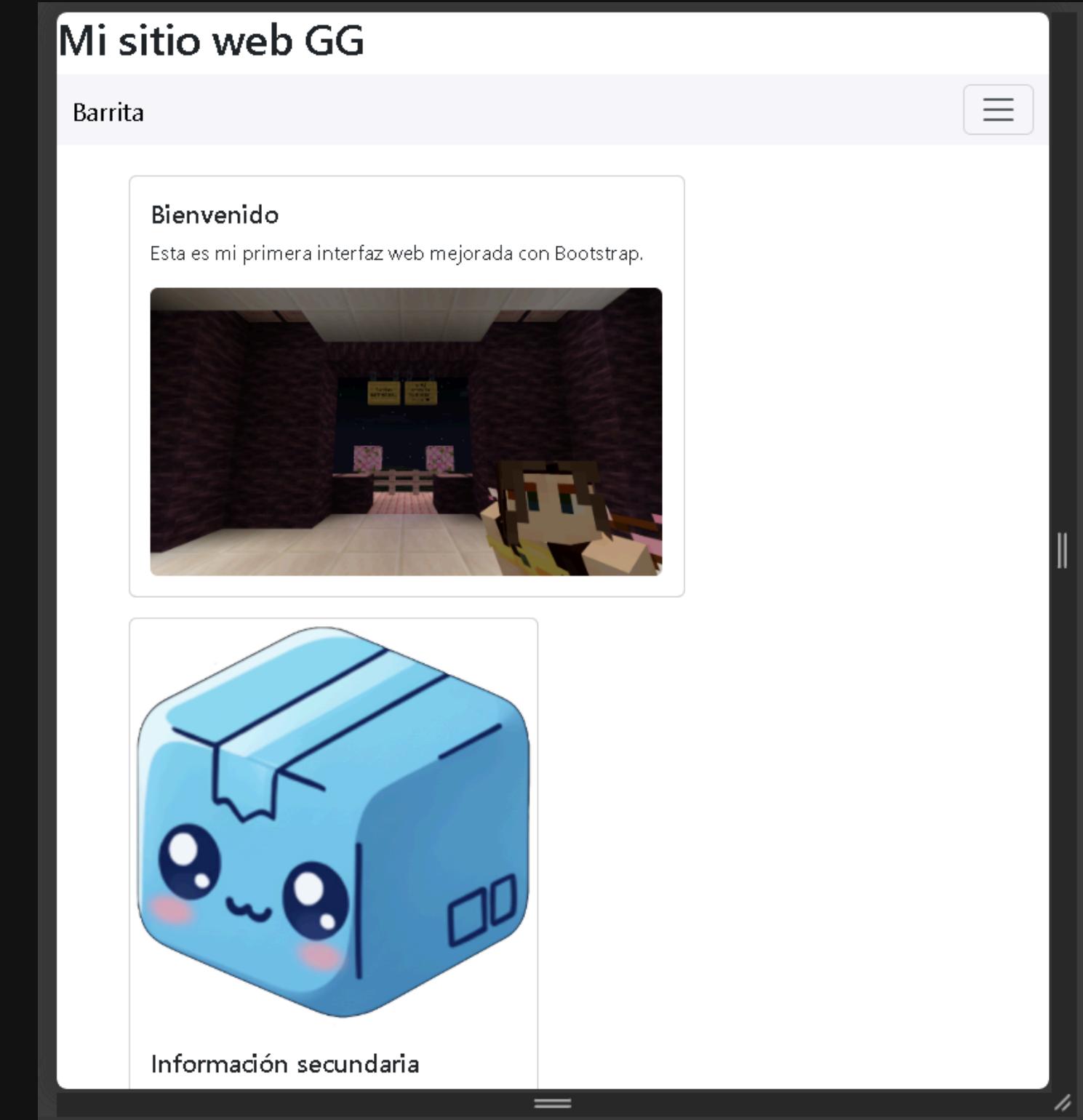
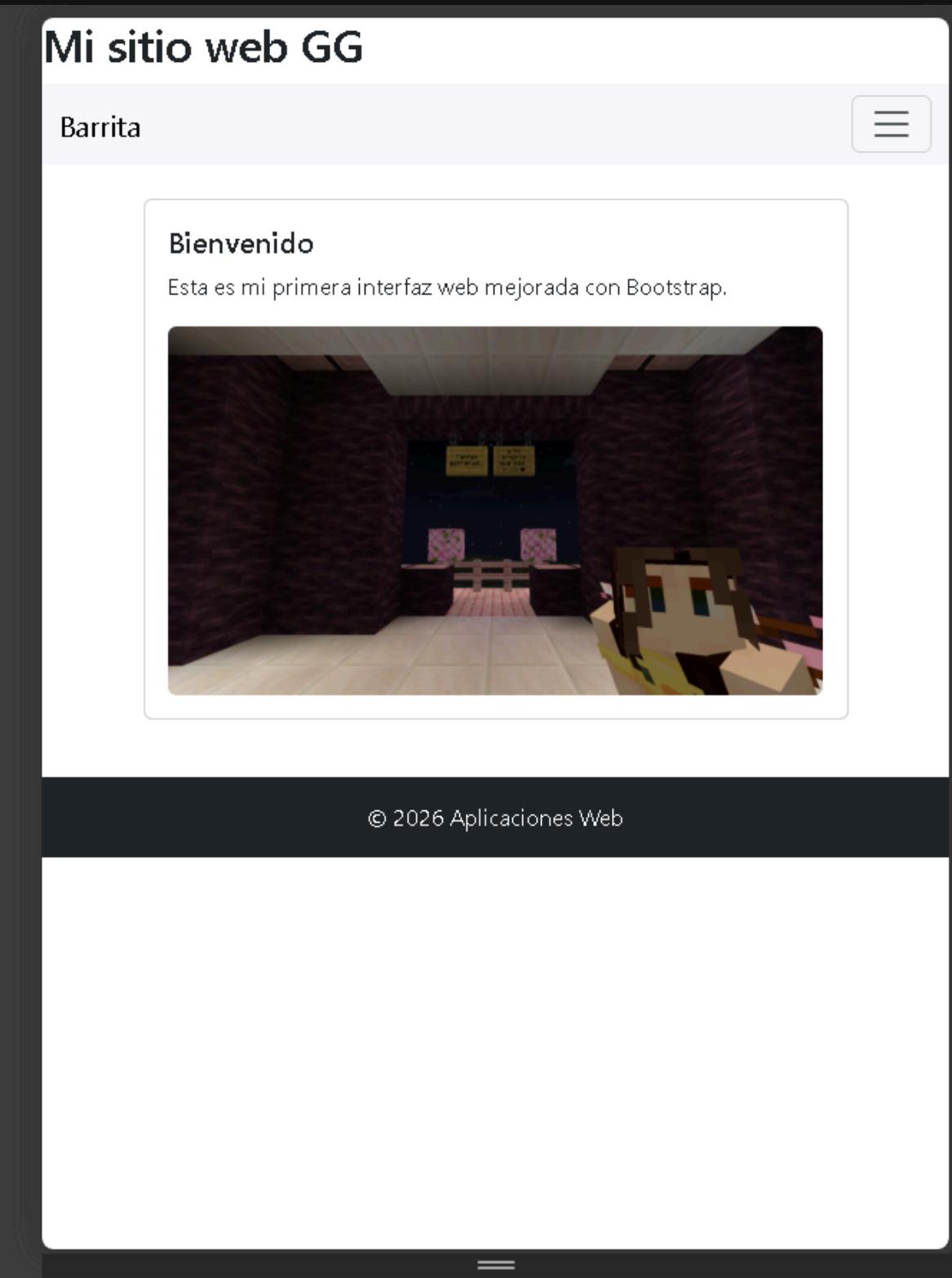
**Información secundaria**

Contenido adicional

Acceder

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# PÁGINA



**GRACIAS**