



UNIVERSIDAD POLITÉCNICA DE PACHUCA (UPP)

INGENIERIA EN TECNOLOGIAS DE LA INFORMACIÓN E INNOVACIÓN DIGITAL

Practica_04_Angular

APLICACIONES WEB

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Grupo: 04_01

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PRÁCTICA 04_Angular

Objetivo general

Que el alumno integre Bootstrap a un proyecto existente para mejorar la presentación visual de su página, con el uso de componentes reutilizables (navbar, cards, grid), diferenciando el uso de CSS propio y los frameworks CSS.

Fecha: 22/01/2026

Capturas de Pantalla

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

- File Explorer:** Shows the project structure under "PRACTICAS_WEB_ALEXISGASCA".
- Editor:** Displays the `angular.json` file content.
- Terminal:**
 - Shows the command `ng serve` being run.
 - Output includes: "Initial total | 48.59 kB", "Application bundle generation complete. [3.09 seconds] - 2026-01-22T19:26:43.388Z", and "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.
- Status Bar:** Shows file statistics: Ln 32, Col 71, Spaces: 2, UTF-8, CRLF, JSON, and Signed out.

Imagen 1: Configuración Angular

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

- File Explorer:** Shows the project structure under "PRACTICAS_WEB_ALEXISGASCA".
- Editor:** Displays the `angular.json` file content.
- Terminal:**
 - Shows the command `ng generate component components/header` being run.
 - Output includes: "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)", and "CREATE src/app/components/header/header.html (22 bytes)".
 - Shows the command `ng generate component components/footer` being run.
 - Output includes: "CREATE src/app/components/footer/footer.spec.ts (554 bytes)", "CREATE src/app/components/footer/footer.ts (197 bytes)", "CREATE src/app/components/footer/footer.css (0 bytes)", and "CREATE src/app/components/footer/footer.html (22 bytes)".
- Status Bar:** Shows file statistics: Ln 32, Col 71, Spaces: 2, UTF-8, CRLF, JSON, and Signed out.

Imagen 2: Creación de carpetas

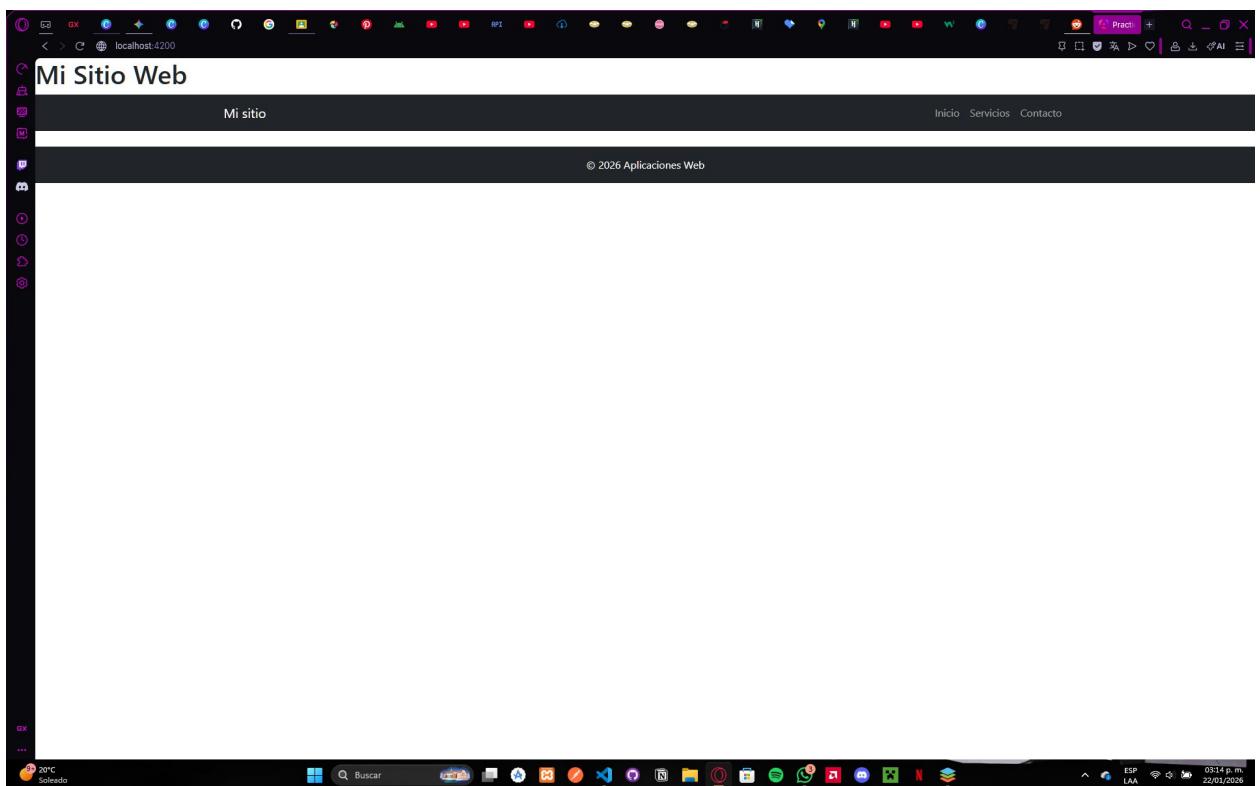


Imagen 3: Pagina sin formato

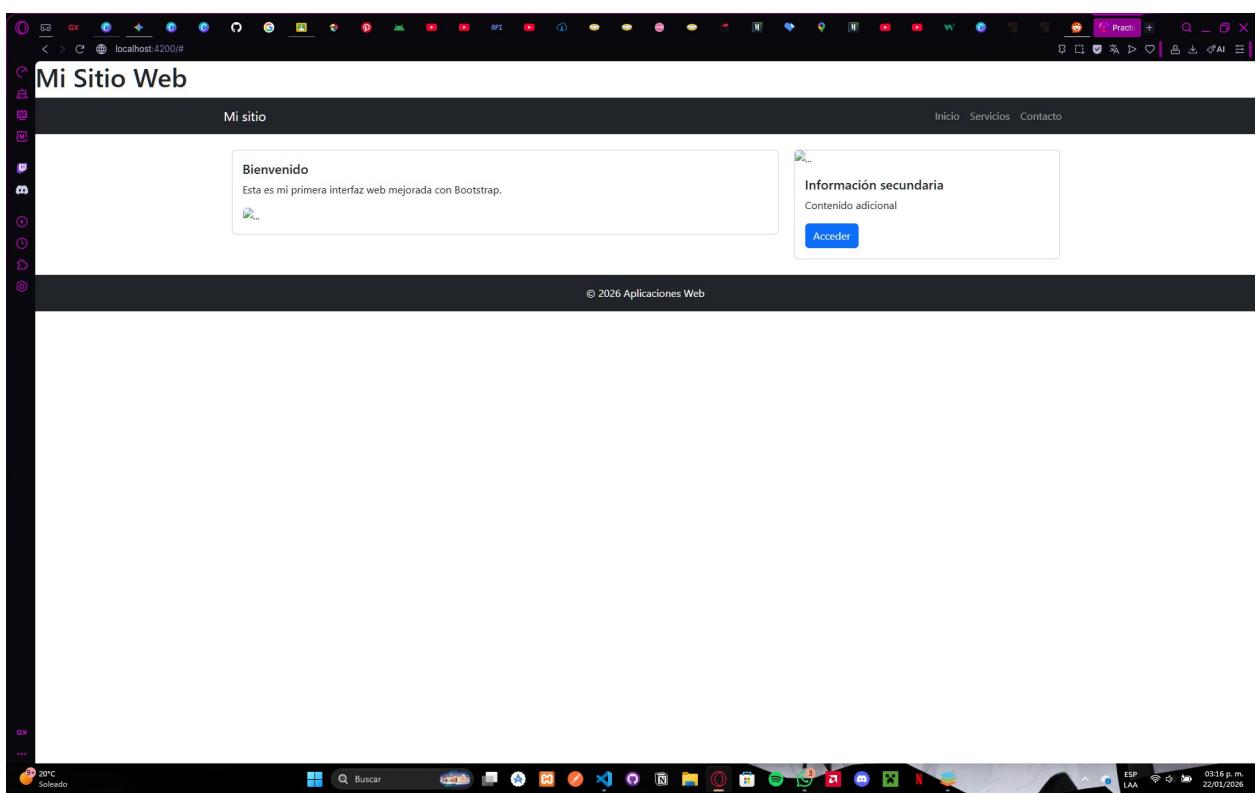


Imagen 4: Pagina con la estructura bootstrap

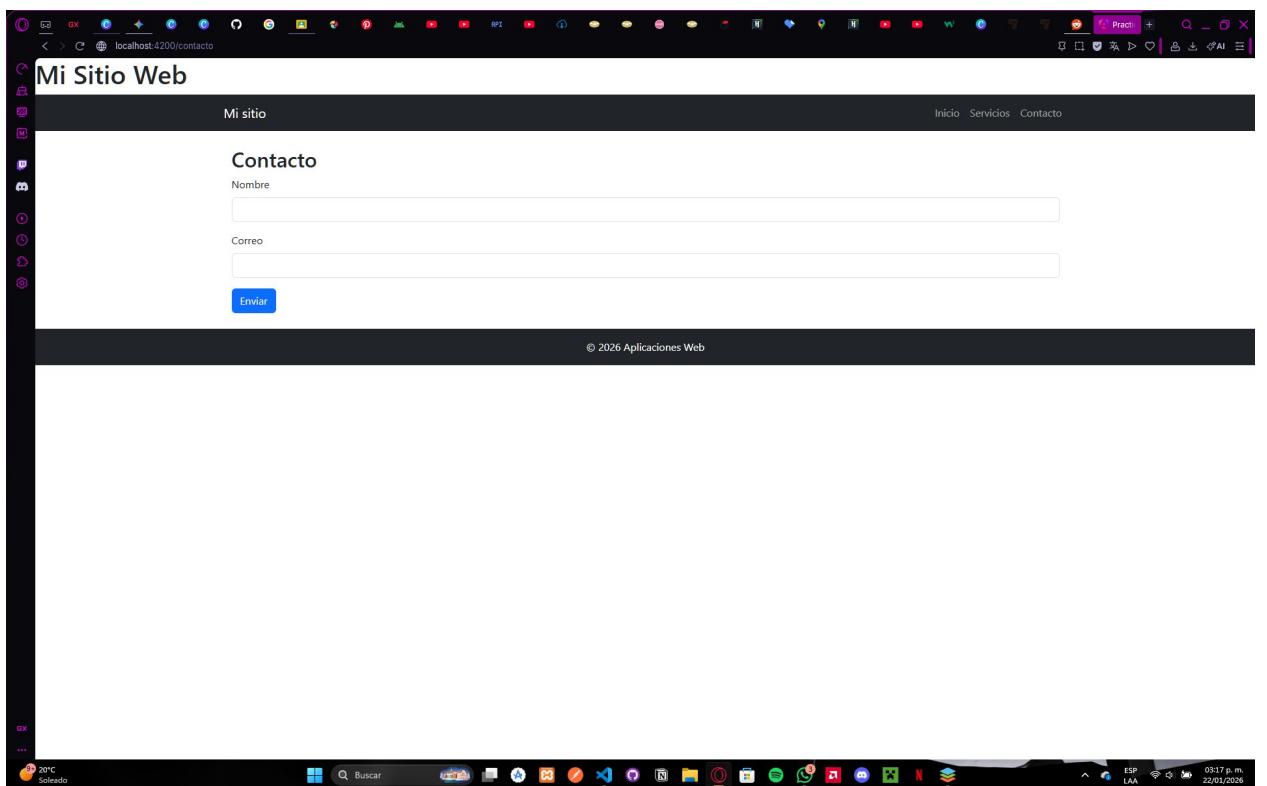


Imagen 5: Pagina de Contacto

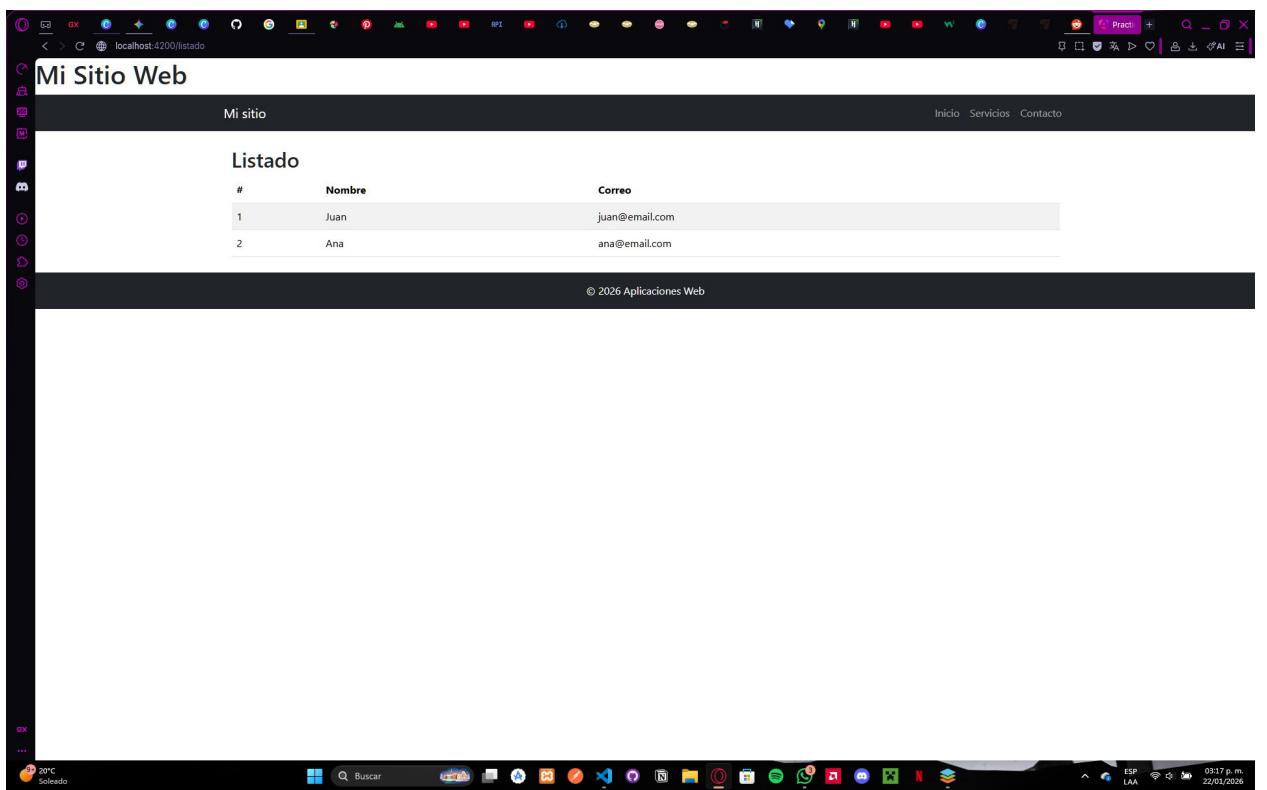


Imagen 6: Pagina de Listado

```

File Edit Selection View Go Run ... < > Q Practicas_Web_AlexisGasca
EXPLORER OPEN EDITORS
> OPEN EDITORS
PRACTICAS_WEB_ALEXISGASCA
practica04-angular
src app components footer
# footer.css
# footer.html
TS footer.specs
TS footer.ts
header
# header.css
# header.html
TS header.specs
TS header.ts
navbar
# navbar.css
# navbar.html
TS navbar.specs
TS navbar.ts
pages
TS app.config.server.ts
TS app.config.ts
# app.css
# app.html
TS app.routes.ts
TS app.routes.server.ts
TS app.routes.ts
TS app.specs
TS app.ts
index.html
TS main.server.ts
TS main.ts
TS server.ts
# styles.css
.editorconfig
.gitignore
angular.json
package-lock.json
package.json
README.md
tsconfig.app.json
tsconfig.json
tsconfig.spec.json
.gittarributes
OUTLINE
TIMELINE

```

```

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

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS powershell - practical04-angular + v 🗑️ ...

PS C:\Users\JOSS\Documents\GitHub\Practicas_Web_AlexisGasca\practica04-angular> ng serve

Initial chunk files	Names	Raw size
main.js	main	19.86 kB

Server bundles

Initial chunk files	Names	Raw size
main.server.js	main.server	20.34 kB

Application bundle generation complete. [0.320 seconds] - 2026-01-22T21:18:13.168Z

Component update sent to client(s).

Browser bundles

Initial chunk files	Names	Raw size
main.js	main	19.88 kB

Server bundles

Initial chunk files	Names	Raw size
main.server.js	main.server	20.36 kB

Application bundle generation complete. [0.192 seconds] - 2026-01-22T21:19:16.103Z

Component update sent to client(s).

PS C:\Users\JOSS\Documents\GitHub\Practicas_Web_AlexisGasca\practica04-angular>

Imagen 7: Código navbar.ts

```

File Edit Selection View Go Run ... < > Q Practicas_Web_AlexisGasca
EXPLORER OPEN EDITORS
> OPEN EDITORS
PRACTICAS_WEB_ALEXISGASCA
practica04-angular
src app components navbar
navbar.html
navbar.specs
TS navbar.ts
pages
TS app.config.server.ts
TS app.config.ts
# app.css
# app.html
TS app.routes.ts
TS app.routes.server.ts
TS app.routes.ts
TS app.specs
TS app.ts
index.html
TS main.server.ts
TS main.ts
TS server.ts
# styles.css
.editorconfig
.gitignore
angular.json
package-lock.json
package.json
README.md
tsconfig.app.json
tsconfig.json
tsconfig.spec.json
.gittarributes
OUTLINE
TIMELINE

```

```

1 <nav class="navbar navbar-expand-lg navbar-dark bg-dark">
2   <div class="container">
3     <a class="navbar-brand" routerLink="#">Inicio</a>
4     <div class="navbar-nav">
5       <a class="nav-link" routerLink="#">Contacto</a>
6       <a class="nav-link" routerLink="#">Listado</a>
7     </div>
8   </nav>

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS powershell - practical04-angular + v 🗑️ ...

PS C:\Users\JOSS\Documents\GitHub\Practicas_Web_AlexisGasca\practica04-angular> ng serve

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Component update sent to client(s).

PS C:\Users\JOSS\Documents\GitHub\Practicas_Web_AlexisGasca\practica04-angular>

Imagen 8: Código navbar.html

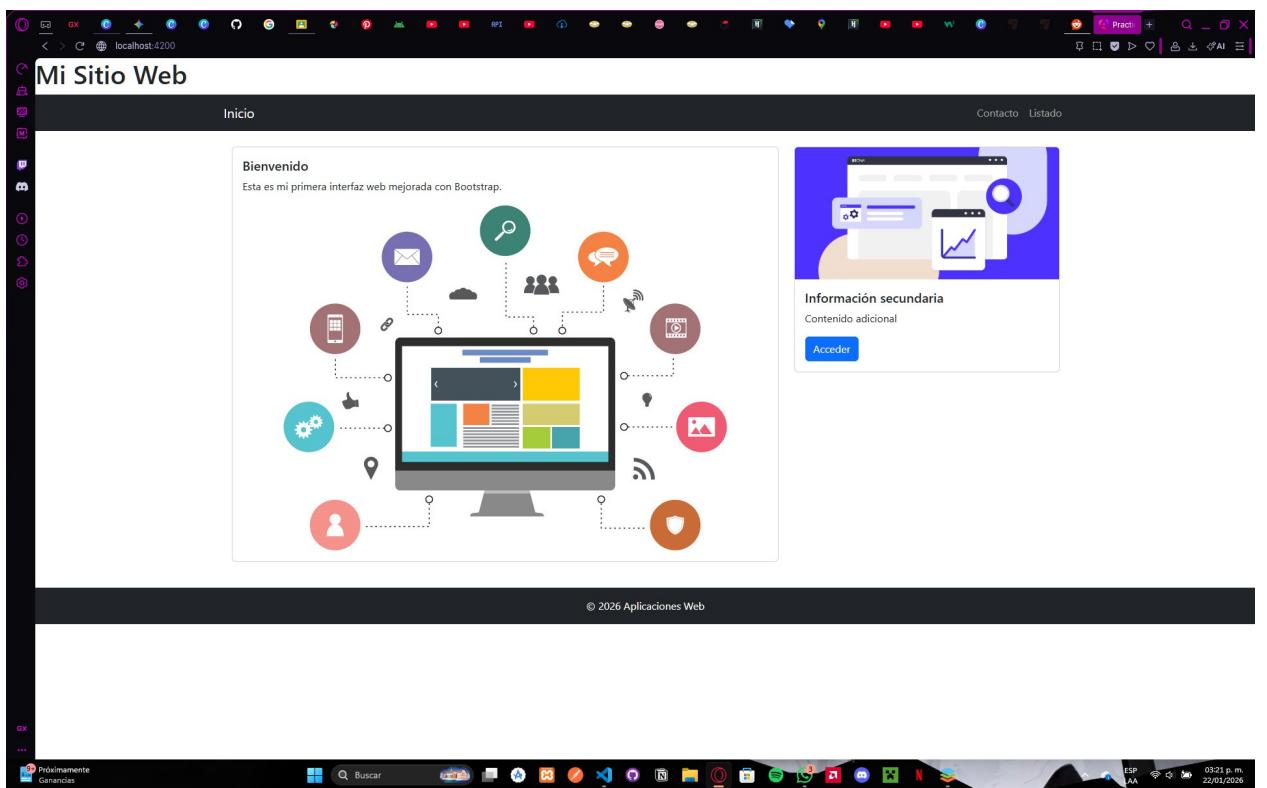


Imagen 9: Pagina con la estructura y animaciones de movimientos de paginas

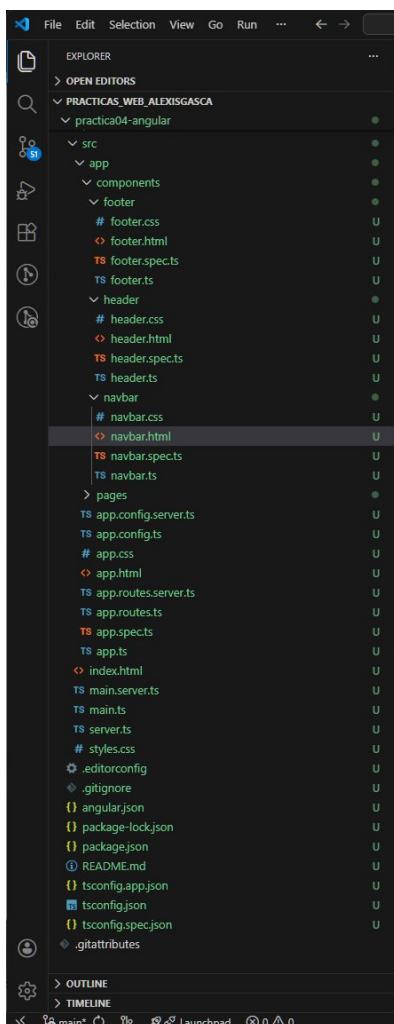


Imagen 10: Estructura de la practica