

Universidad Politécnica de Pachuca



Practica03

**Carrera: Ingeniería en Tecnologías de la
Información e Innovación Digital**

Materia: Aplicaciones Web

Alumnos:

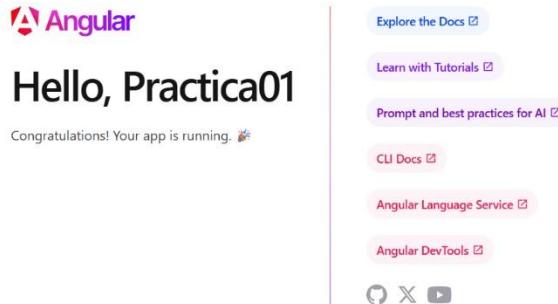
David de Jesús Hernández Hernández- 2431124979

Maestro

Diana Xóchilt Ruano Vargas

28 de Enero del 2026

Sección; Crear el Proyecto de angular



Sección de Instalacion de Bootstrap

```
PS C:\Users\AlexxV.BlaDe\OneDrive\Documentos\GitHub\Practicas_Net_AlejandroVargasLazca\practica04-angular> ng serve
server.js | server | 1.81 kB
polyfills.server.js | polyfills.server | 243 bytes

Application bundle generation complete. [2.250 seconds] - 2026-01-22T19:33:48.994Z

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

npm install bootstrap
b

Shortcuts
press r + enter to force reload browser
press u + enter to show server url
press o + enter to open in browser
press c + enter to clear console
press q + enter to quit
q
PS C:\Users\AlexxV.BlaDe\OneDrive\Documentos\GitHub\Practicas_Net_AlejandroVargasLazca\practica04-angular> npm install bootstrap
added 2 packages, and audited 495 packages in 4s

311 packages are looking for funding
  run 'npm fund' for details

found 0 vulnerabilities
PS C:\Users\AlexxV.BlaDe\OneDrive\Documentos\GitHub\Practicas_Net_AlejandroVargasLazca\practica04-angular>
```

```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular> ng serve
Application bundle generation complete. [1.620 seconds] - 2026-01-22T19:55:11.313Z

Watch mode enabled. Watching for file changes...
NOTE: Raw file sizes do not reflect development server per-request transformations.
1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed
1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
  + local: http://localhost:4200/
  + press h + enter to show help
1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
  + local: http://localhost:4200/
  + press h + enter to show help

1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
  + local: http://localhost:4200/
  + press h + enter to show help

1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
  + local: http://localhost:4200/
  + press h + enter to show help

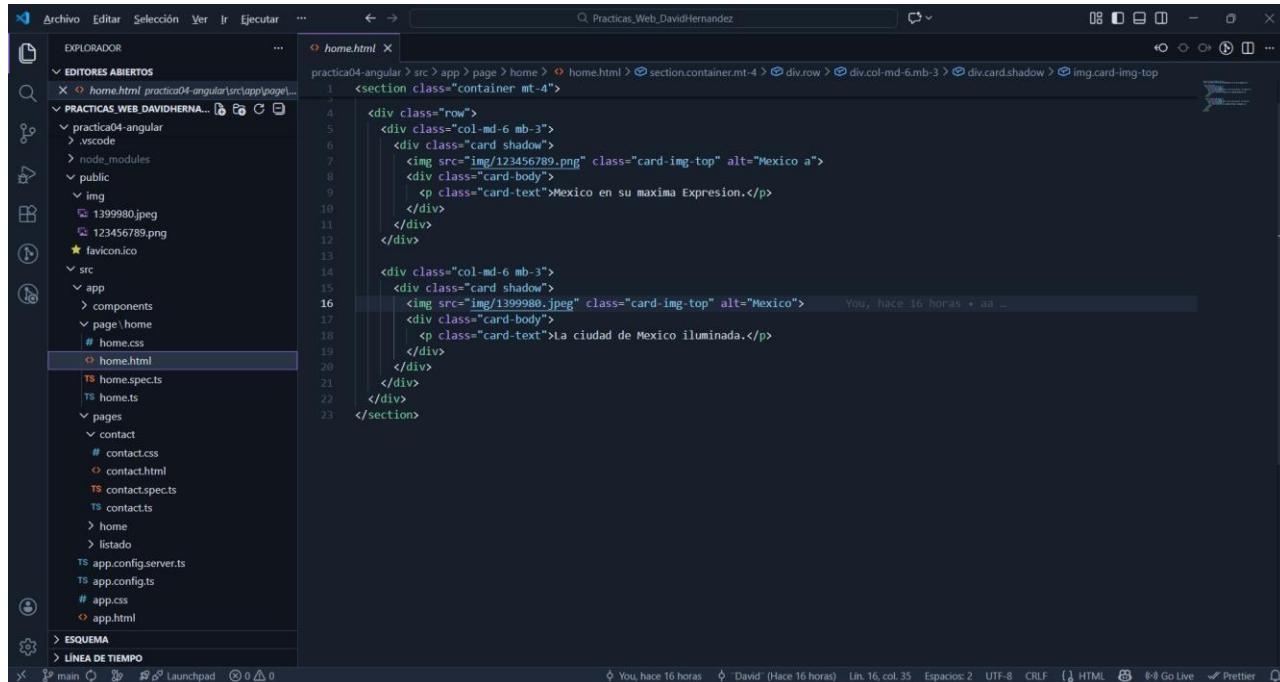
1:55:11 PM [vite] [wss] Re-optimizing dependencies because lockfile has changed (x2)
  + local: http://localhost:4200/
  + press h + enter to show help

Ln 33, Col 17 Spaces: 2 UTF-8 CRLF JSON

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS GITLENS
PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular> ng generate component components/header
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)
PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular> ng generate component components/navbar
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)
PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular> ng generate component components/footer
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)
CREATE src/app/components/footer/footer.html (22 bytes)
PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular> ng serve
Error: Schema validation failed with the following errors:
  data path "styling" must be object.
  data path "styling[0]" must match pattern "^\w+(:?\\w+|\\w+\\.|\\w+\\w+)(\\.less)?$".
  data path "styling[0]" must match exactly one schema in oneOf.
% PS C:\Users\AlexVillade\OneDrive\Documentos\GitHub\Practicas_Web_AlejandroVargasLazca\practica04-angular>
Ln 11, Col 7 Spaces: 4 UTF-8 CRLF JSON HTML

```

Crea las Páginas del sitio



The screenshot shows a code editor with the following details:

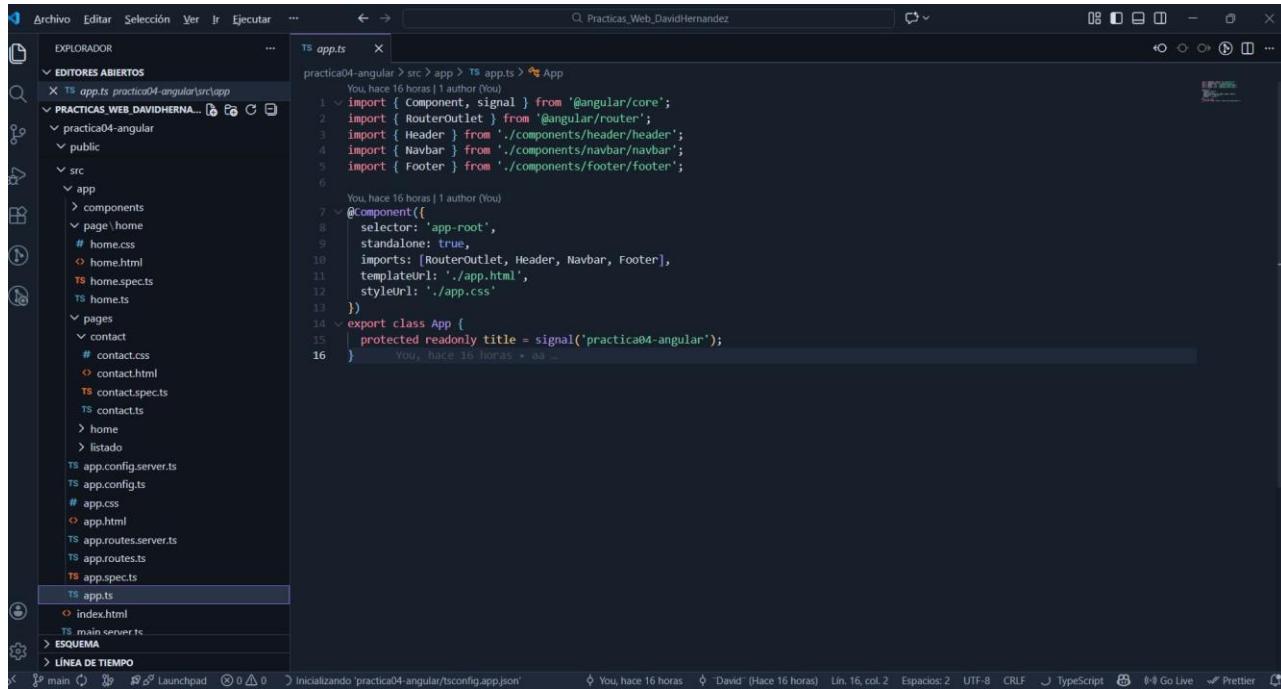
- File Path:** practica04-angular > src > app > page > home > home.html
- Content:**

```

<section class="container mt-4">
  <div class="row">
    <div class="col-md-6 mb-3">
      <div class="card shadow">
        
        <div class="card-body">
          <p class="card-text">Mexico en su maxima Expressión.</p>
        </div>
      </div>
    </div>
    <div class="col-md-6 mb-3">
      <div class="card shadow">
        
        <div class="card-body">
          <p class="card-text">la ciudad de Mexico iluminada.</p>
        </div>
      </div>
    </div>
  </div>
</section>

```
- Editor Features:**
 - Left sidebar: EXPLORADOR, EDITORES ABIERTOS, PRACTICAS WEB DAVIDHERNANDE...
 - Bottom status bar: main, Launchpad, You, hace 16 horas, David: (Hace 16 horas), Lin. 16, col. 35, Espacios: 2, UTF-8, CRLF, HTML, Go Live, Prettier.

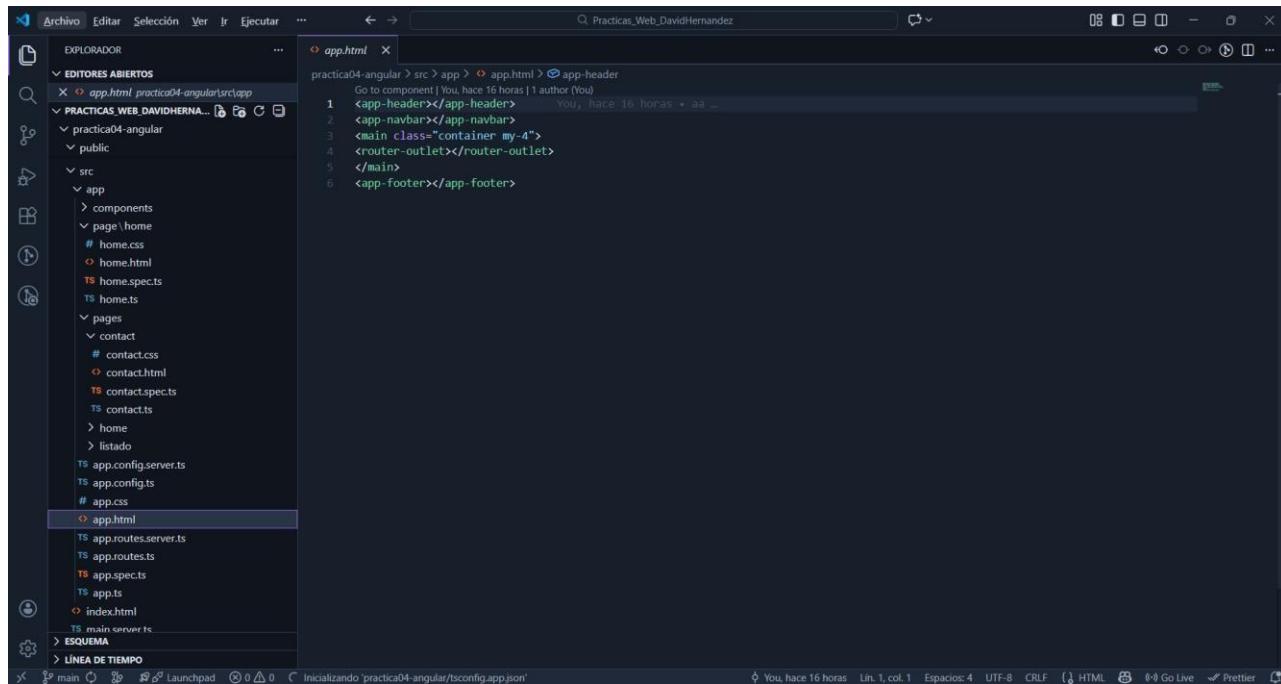
SECCIÓN F: Armar el layout principal (práctica anterior)



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

- File Explorer:** Shows the project structure under "EDTORES ABIERTOS". The "app.ts" file is selected.
- Code Editor:** Displays the content of the "app.ts" file, which defines the "App" component.
- Status Bar:** Shows the path "Iniciando 'practica04-angular/tsconfig.app.json'", the author "You, hace 16 horas", the line number "Lin. 16, col. 2", and other settings like "Espacios: 2", "UTF-8", "CRLF", "TypeScript", "Go Live", and "Prettier".

```
practica04-angular > src > app > TS app.ts > App
You, hace 16 horas | 1 autor (You)
1 import { Component, signal } from '@angular/core';
2 import { RouterOutlet } from '@angular/router';
3 import { Header } from './components/header/header';
4 import { Navbar } from './components/navbar/navbar';
5 import { Footer } from './components/footer/footer';
6
7 You, hace 16 horas | 1 autor (You)
8 @Component({
9   selector: 'app-root',
10  standalone: true,
11  imports: [RouterOutlet, Header, Navbar, Footer],
12  templateUrl: './app.html',
13  styleUrls: ['./app.css']
14})
15 export class App {
16   | protected readonly title = signal('practica04-angular');
17 }
```



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

- File Explorer:** Shows the project structure under "EDTORES ABIERTOS". The "app.html" file is selected.
- Code Editor:** Displays the content of the "app.html" file, which contains the main layout structure.
- Status Bar:** Shows the path "Iniciando 'practica04-angular/tsconfig.app.json'", the author "You, hace 16 horas", the line number "Lin. 1, col. 1", and other settings like "Espacios: 4", "UTF-8", "CRLF", "HTML", "Go Live", and "Prettier".

```
practica04-angular > src > app > app.html > app-header
Go to component ! You, hace 16 horas | 1 autor (You)
1 <app-header></app-header>
2 <app-navbar></app-navbar>
3 <main class="container my-4">
4 <router-outlet></router-outlet>
5 </main>
6 <app-footer></app-footer>
```

SECCIÓN G: Crear páginas adicionales

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

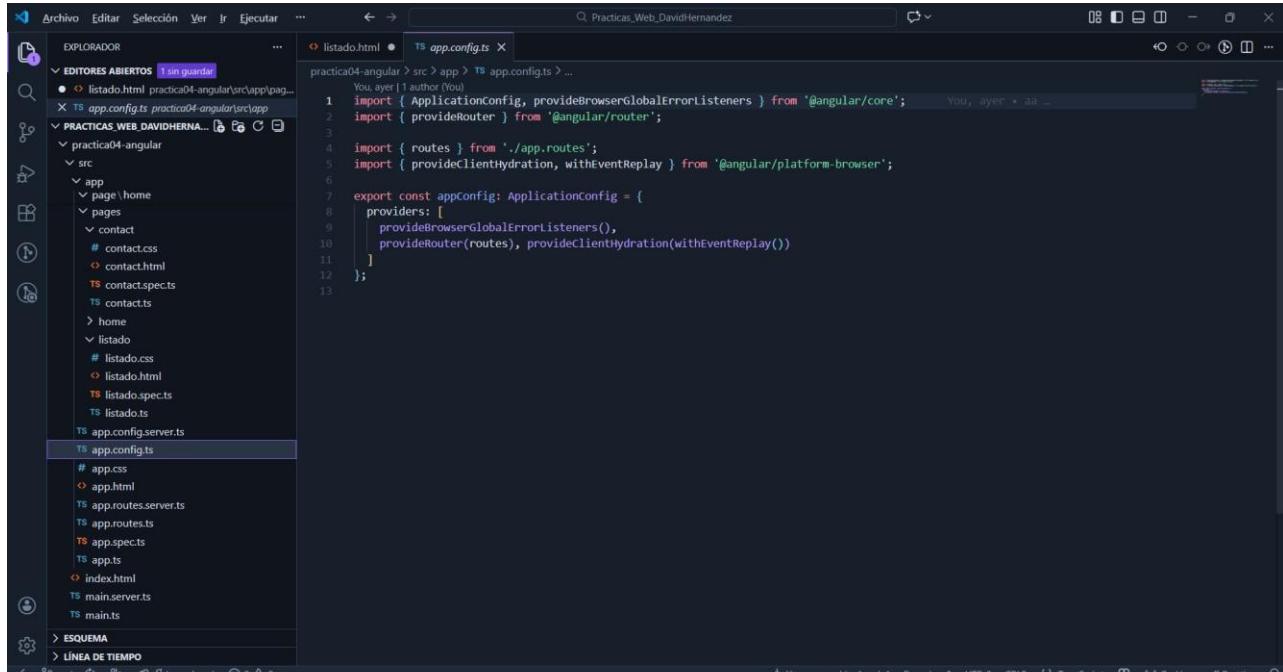
- Title Bar:** Archivo, Editar, Selección, Ver, Ir, Ejecutar, Prácticas_Web_DavidHernandez.
- Explorer:** Shows the project structure under "EDTORES ABIERTOS". The "contact.html" file is selected in the list.
- Code View:** The content of the "contact.html" file is displayed, which includes form fields for name, email, and message, and a submit button.
- Status Bar:** You, hace 16 horas, Lin. 1, col. 1, Espacios: 2, UTF-8, CRLF, HTML, Go Live, Prettier.

Página 2: Tabla (Listado)

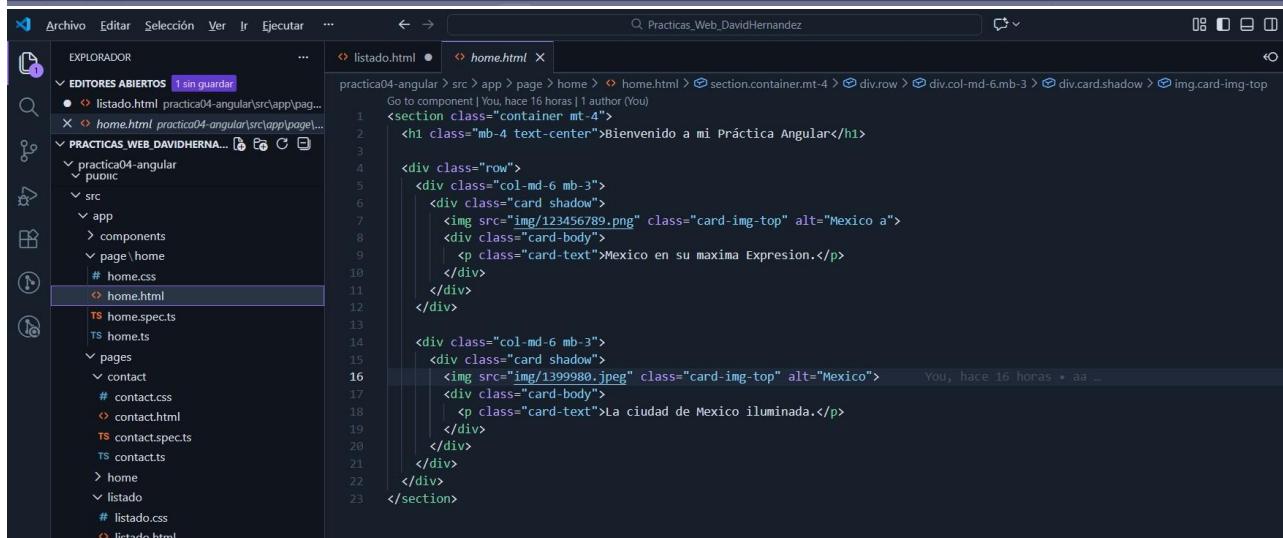
The screenshot shows a code editor interface with the following details:

- Title Bar:** Archivo, Editar, Selección, Ver, Ir, Ejecutar, Prácticas_Web_DavidHernandez.
- Explorer:** Shows the project structure under "EDTORES ABIERTOS". The "listado.html" file is selected in the list.
- Code View:** The content of the "listado.html" file is displayed, which includes a table with columns for Name, Surname, and Email, and rows for Santiago, Daniel, Jesus, Jacobs, Thornton, and Fat.
- Status Bar:** You, hace 17 horas, Lin. 1, col. 1, Espacios: 2, UTF-8, CRLF, HTML, Go Live, Prettier.

SECCIÓN H: Configurar rutas



```
You, ayer | 1 author (You)
1 import { ApplicationConfig, provideBrowserGlobalErrorListeners } from '@angular/core';
2 import { provideRouter } from '@angular/router';
3
4 import { routes } from './app.routes';
5 import { provideClientHydration, withEventReplay } from '@angular/platform-browser';
6
7 export const appConfig: ApplicationConfig = {
8   providers: [
9     provideBrowserGlobalErrorListeners(),
10    provideRouter(routes), provideClientHydration(withEventReplay())
11  ]
12};
```



```
<section class="container mt-4">
<h1 class="mb-4 text-center">Bienvenido a mi Práctica Angular</h1>
<div class="row">
<div class="col-md-6 mb-3">
<div class="card shadow">

<div class="card-body">
<p class="card-text">Mexico en su maxima Expresión.</p>
</div>
</div>
</div>
<div class="col-md-6 mb-3">
<div class="card shadow">

<div class="card-body">
<p class="card-text">La ciudad de Mexico iluminada.</p>
</div>
</div>
</div>
</section>
```

SECCIÓN I: Navegación con RouterLink

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

- Explorador:** Shows the project structure for "practica04-angular". The "navbar" folder is expanded, showing "navbar.css", "navbar.html", and "navbar.spec.ts".
- listado.html:** The current file is "listado.html". It contains a reference to "navbars/navbar.ts".
- visor de código:** Shows the code for "navbar.html". The code includes a navigation bar with items: "Practica 4", "Contacto", and "Listado". Each item is a link generated by the "RouterLink" directive.
- status bar:** Shows the message "You, hace 16 horas | author (You)" and other status indicators like "Lín. 1, col. 1", "Espacios: 2", "UTF-8", "CRLF", "HTML", "Go Live", and "Prettier".

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

- Explorador:** Shows the project structure for "practica04-angular". The "navbar" folder is expanded, showing "navbar.css", "navbar.html", and "navbar.spec.ts".
- visor de código:** Shows the code for "navbar.ts". It defines a component named "Navbar" that has a selector of ".app-navbar", is standalone, and imports "RouterLink" from "@angular/router".
- status bar:** Shows the message "You, ayer | author (You)" and other status indicators like "Lín. 1, col. 1", "Espacios: 2", "UTF-8", "CRLF", "TypeScript", "Go Live", and "Prettier".

SECCIÓN J: Visualización de imágenes

The screenshot shows a web browser window with the title 'Práctica04Angular'. The URL bar displays 'localhost:4200'. The main content area has a blue header with the text 'Práctica 04: Angular' and 'Desarrollo de Aplicaciones Web - David de Jesus'. Below the header is a navigation bar with links 'Practica 4', 'Inicio', 'Contacto', and 'Listado'. The main content area features two images: one of two men in cowboy hats standing next to a Ford truck, and another of a brightly lit dome at night.

Bienvenido a mi Práctica Angular

The screenshot shows a web browser window with the title 'Práctica04Angular'. The URL bar displays 'localhost:4200/contacto'. The main content area has a blue header with the text 'Desarrollo de Aplicaciones Web - David de Jesus'. Below the header is a navigation bar with links 'Practica 4', 'Inicio', 'Contacto' (which is highlighted), and 'Listado'. The main content area features two images: one of two men in cowboy hats standing next to a Ford truck, and another of a brightly lit dome at night.

Contáctanos

Nombre completo

Escribe tu nombre

Correo electrónico

nombre@ejemplo.com

Mensaje

Enviar



Listado de Usuarios

#	Nombre	Apellido	Usuario
1	Santiago	Pluna	El Tamal
2	Daniel	Uriel	El Pelusa
3	Jesus	Tetetla	La Pulga

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Desarrollado por [INGDavid]