

DESARROLLAR SOFTWARE A PARTIR DE LA INTEGRACIÓN DE SUS MÓDULOS
COMPONENTES

GA8-220501096-AA1-EV01

SENA

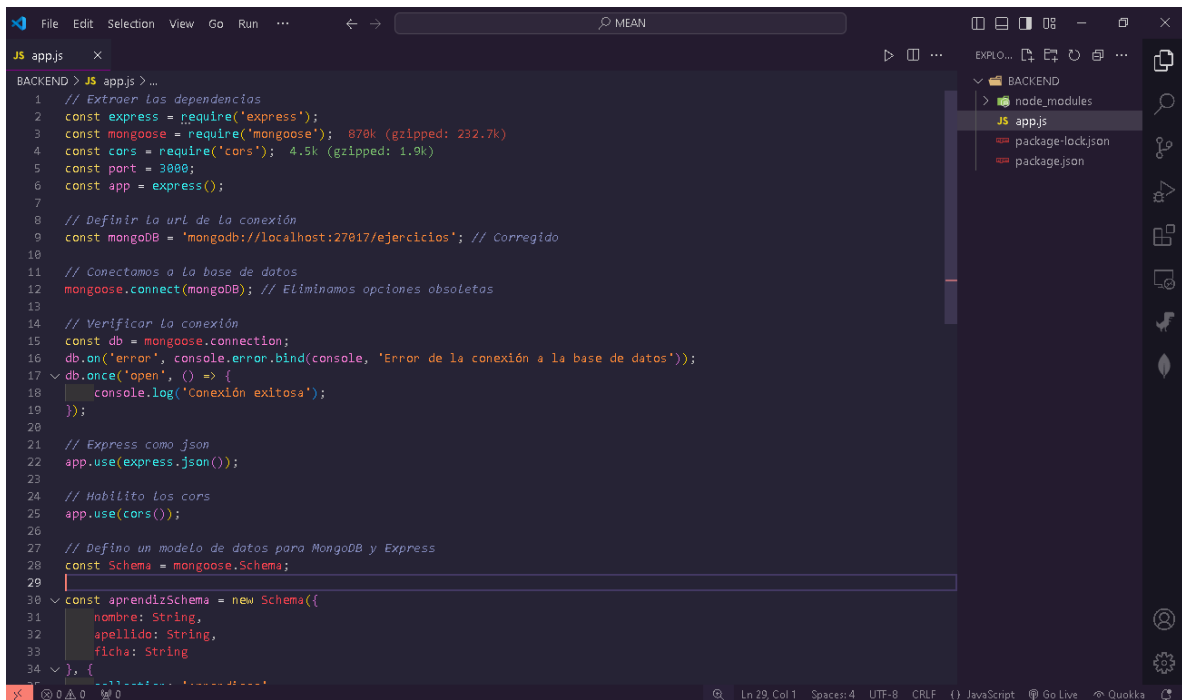
Análisis y Desarrollo de Software

Curso N° 2721430

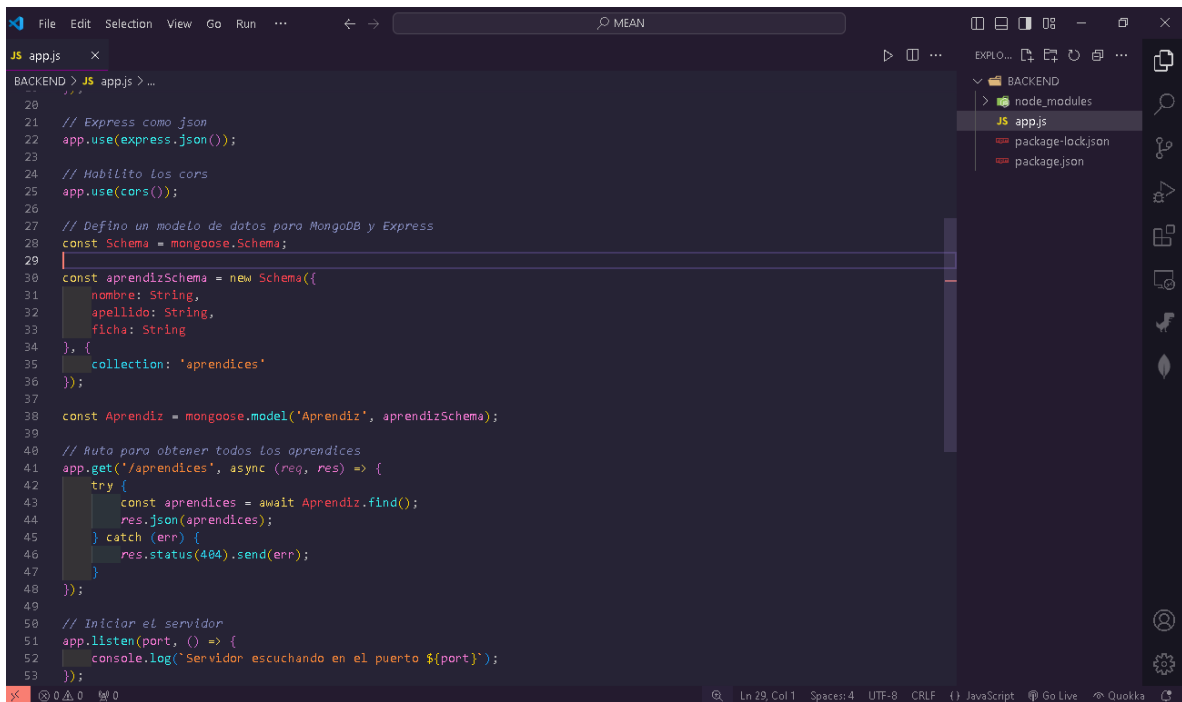
Instructor Técnico Sergio Esteban Bernal Castillo

David Felipe Soto Gallego

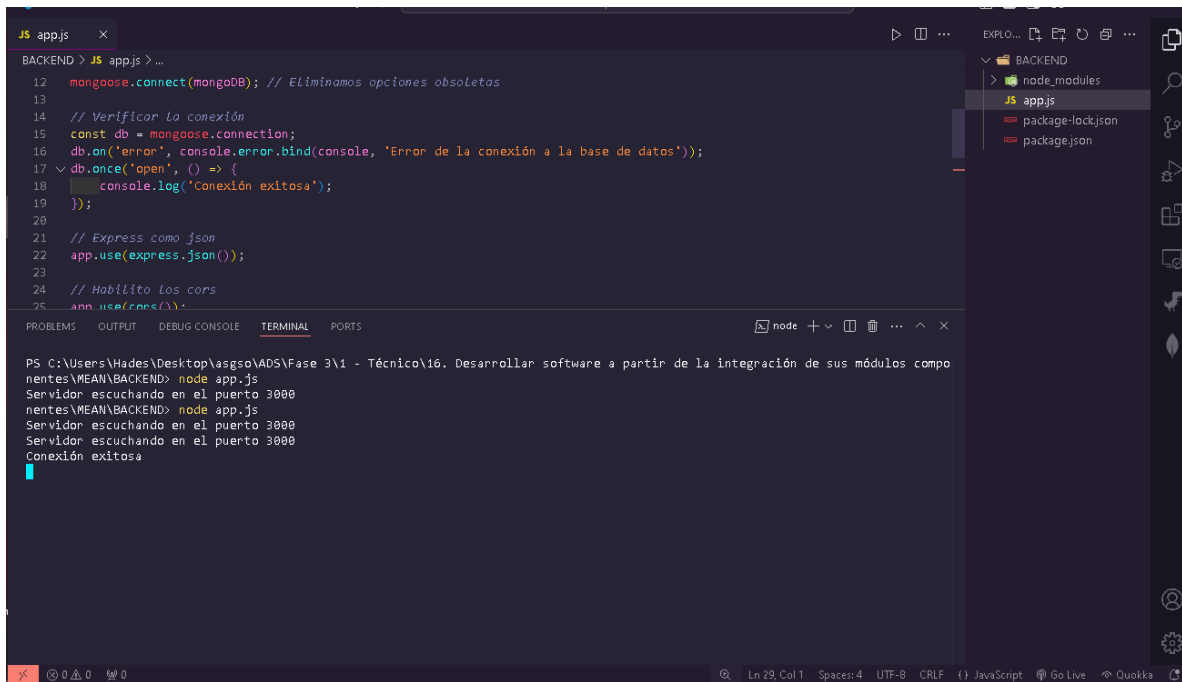
01/08/24



```
1 // Extraer las dependencias
2 const express = require('express');
3 const mongoose = require('mongoose'); // 870k (gzipped: 232.7k)
4 const cors = require('cors'); // 4.5k (gzipped: 1.9k)
5 const port = 3000;
6 const app = express();
7
8 // Definir la url de la conexión
9 const mongoDB = 'mongodb://localhost:27017/ejercicios'; // Corregido
10
11 // Conectamos a la base de datos
12 mongoose.connect(mongoDB); // Eliminamos opciones obsoletas
13
14 // Verificar la conexión
15 const db = mongoose.connection;
16 db.on('error', console.error.bind(console, 'Error de la conexión a la base de datos'));
17 db.once('open', () => {
18   console.log('Conexión exitosa');
19 });
20
21 // Express como json
22 app.use(express.json());
23
24 // Habilito los cors
25 app.use(cors());
26
27 // Defino un modelo de datos para MongoDB y Express
28 const Schema = mongoose.Schema;
29
30 const aprendizSchema = new Schema({
31   nombre: String,
32   apellido: String,
33   ficha: String
34 }, {
```



```
35   collection: 'aprendices'
36 });
37
38 const Aprendiz = mongoose.model('Aprendiz', aprendizSchema);
39
40 // Ruta para obtener todos los aprendices
41 app.get('/aprendices', async (req, res) => {
42   try {
43     const aprendices = await Aprendiz.find();
44     res.json(aprendices);
45   } catch (err) {
46     res.status(404).send(err);
47   }
48 });
49
50 // Iniciar el servidor
51 app.listen(port, () => {
52   console.log(`Servidor escuchando en el puerto ${port}`);
53 });
```



The screenshot shows a VS Code editor with a file named `app.js` open. The code in the editor is as follows:

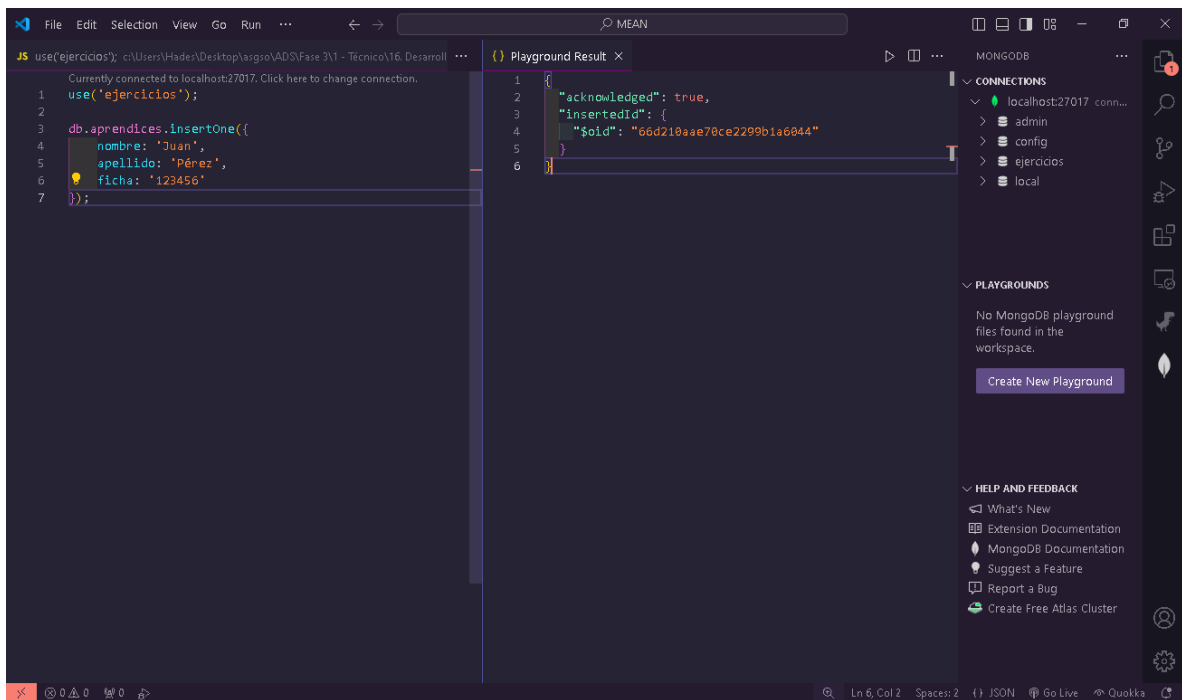
```
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```

Below the editor, a terminal window is open, showing the output of running `node app.js` in a PowerShell prompt. The output is:

```
PS C:\Users\Hades\Desktop\asgsoVADS\Fase 3\1 - Técnico\16. Desarrollar software a partir de la integración de sus módulos compo
nentes\WEAN\BACKEND> node app.js
Servidor escuchando en el puerto 3000
nentes\WEAN\BACKEND> node app.js
Servidor escuchando en el puerto 3000
Servidor escuchando en el puerto 3000
Conexión exitosa
```

The right sidebar shows the Explorer view with the following structure:

- BACKEND
 - node_modules
 - JS app.js
 - package-lock.json
 - package.json



The screenshot shows a VS Code editor with a file named `app.js` open. The code in the editor is as follows:

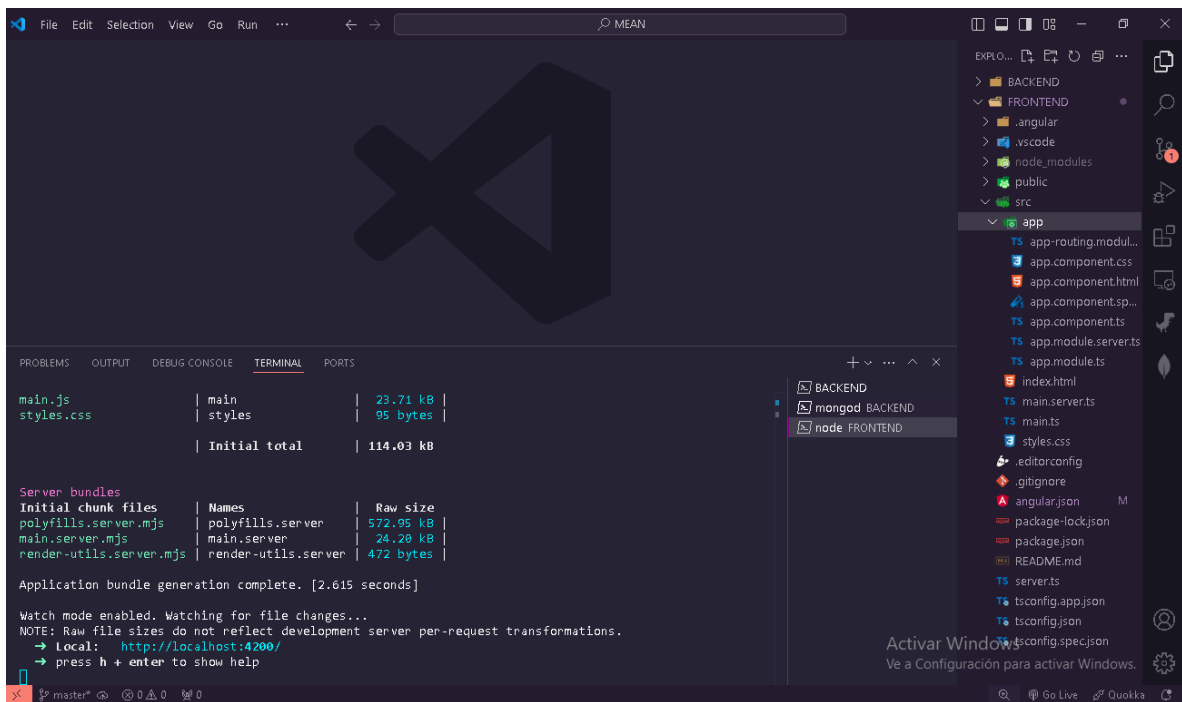
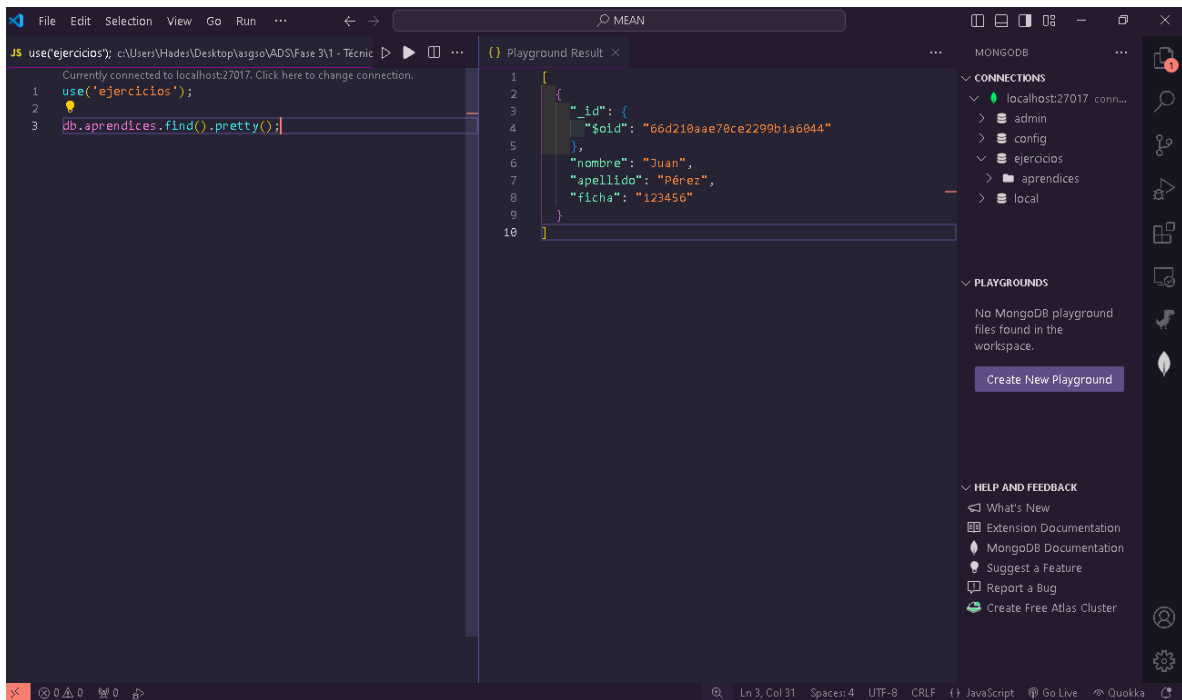
```
1 use('ejercicios');
2
3 db.aprendices.insertOne({
4   nombre: 'Juan',
5   apellido: 'Pérez',
6   ficha: '123456'
7 });
```

Below the editor, a terminal window is open, showing the output of running `node app.js` in a PowerShell prompt. The output is:

```
PS C:\Users\Hades\Desktop\asgsoVADS\Fase 3\1 - Técnico\16. Desarrollar software a partir de la integración de sus módulos compo
nentes\WEAN\BACKEND> node app.js
Servidor escuchando en el puerto 3000
nentes\WEAN\BACKEND> node app.js
Servidor escuchando en el puerto 3000
Servidor escuchando en el puerto 3000
Conexión exitosa
```

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VS Code editor showing a web application running in a browser. The browser displays "hello bros" inside a component. The terminal shows the application bundle generation complete and watch mode enabled. The Explorer sidebar shows the project structure.

```
1 | <h1>hello bros</h1>
2 |
3 | <app-primer-component></app-primer-component>
```

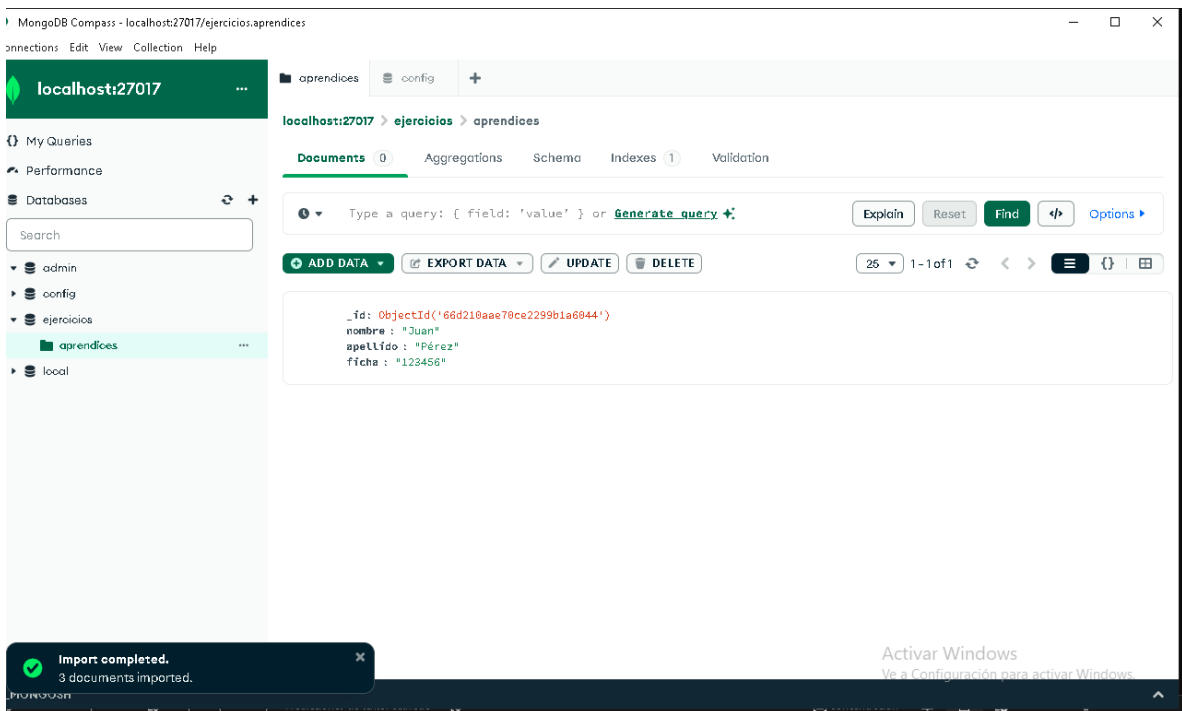
main.js | main | 3.55 kB
styles.css | styles | 95 bytes
Initial total | 93.88 kB

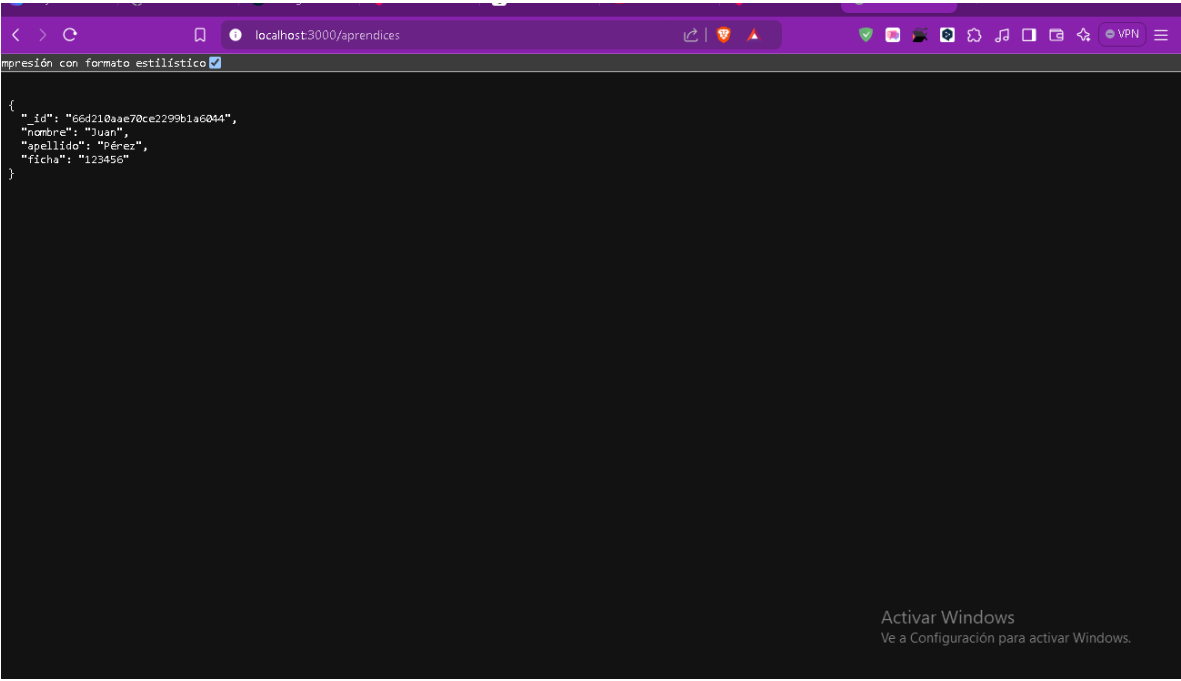
Server bundles
Initial chunk files | Names | Raw size
polyfills.server.mjs | polyfills.server | 572.95 kB
main.server.mjs | main.server | 4.05 kB
render-utils.server.mjs | render-utils.server | 472 bytes

Application bundle generation complete. [2.568 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

EXPLORER: MEAN

- BACKEND
- FRONTEND
 - .angular
 - .vscode
 - node_modules
 - public
 - src
 - app
 - primer-component
 - primer-component.component.css
 - primer-component.component.html
 - primer-component.component.spect.ts
 - primer-component.component.ts
 - app-routing.module.ts
 - app.component.css
 - app.component.html
 - app.component.spect.ts
 - app.component.ts
 - app.module.server.ts
 - app.module.ts
 - index.html
 - main.server.ts
 - main.ts
 - styles.css
 - editorconfig
 - gitignore
 - angular.json
 - package-lock.json
 - README.md
 - servers





Nombre	Apellido	Ficha
Juan	Pérez	123456

Activar Windows
Ve a Configuración para activar Windows.

```
File Edit Selection View Go Run ... MEAN
JS use('ejercicios'); c:\Users\Hades\Desktop\asgso\ADS\Fare 3\1 - Técnico\16. Desarrollar software a partir de la integr
1 use('ejercicios');
2 db.aprendices.insert(
3 {
4   "nombre": "Esteban",
5   "apellido": "Catillo",
6   "fecha": 2721438
7 }
8 );

1 {
2   "acknowledged": true,
3   "insertedIds": {
4     "0": {
5       "$oid": "66d24a2c8e02a624bcc2fae5"
6     }
7   }
8 }
```

Problems OUTPUT DEBUG CONSOLE TERMINAL PORTS Playground output

DeprecationWarning: Collection.insert() is deprecated. Use insertOne, insertMany, or bulkWrite.

Activar Windows
Ve a Configuración para activar Windows.

MongoDB Compass - localhost:27017/ejercicios.aprendices

Connections Edit View Collection Help

localhost:27017

My Queries Performance Databases Search

- admin
- config
- ejercicios
 - aprendices
- local

aprendices

localhost:27017 > ejercicios > aprendices

Documents 0 Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or [Generate query](#)

Explain Reset Find Options

ADD DATA EXPORT DATA UPDATE DELETE 25 1-2 of 2

```
{
  "_id": ObjectId('66d210aae70ce2299b1a6044'),
  "nombre": "Juan",
  "apellido": "Pérez",
  "fecha": "123456"
}
```

```
{
  "_id": ObjectId('66d24a2c8e02a624bcc2fae5'),
  "nombre": "Esteban",
  "apellido": "Catillo",
  "fecha": 2721438
}
```

Import completed.
3 documents imported.

Activar Windows
Ve a Configuración para activar Windows.



Nombre	Apellido	Ficha
Juan	Pérez	123456
Esteban	Catillo	2721430