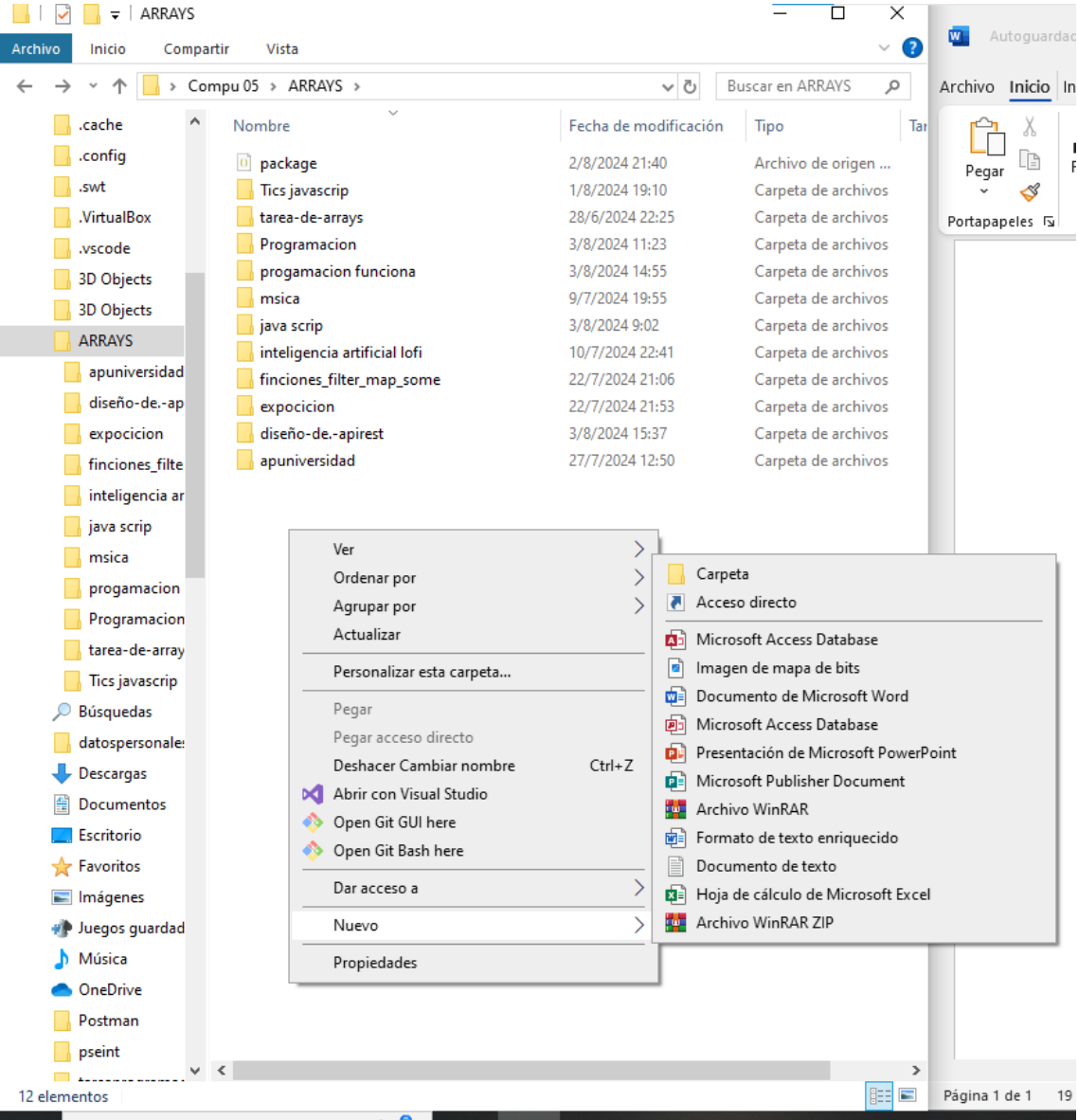


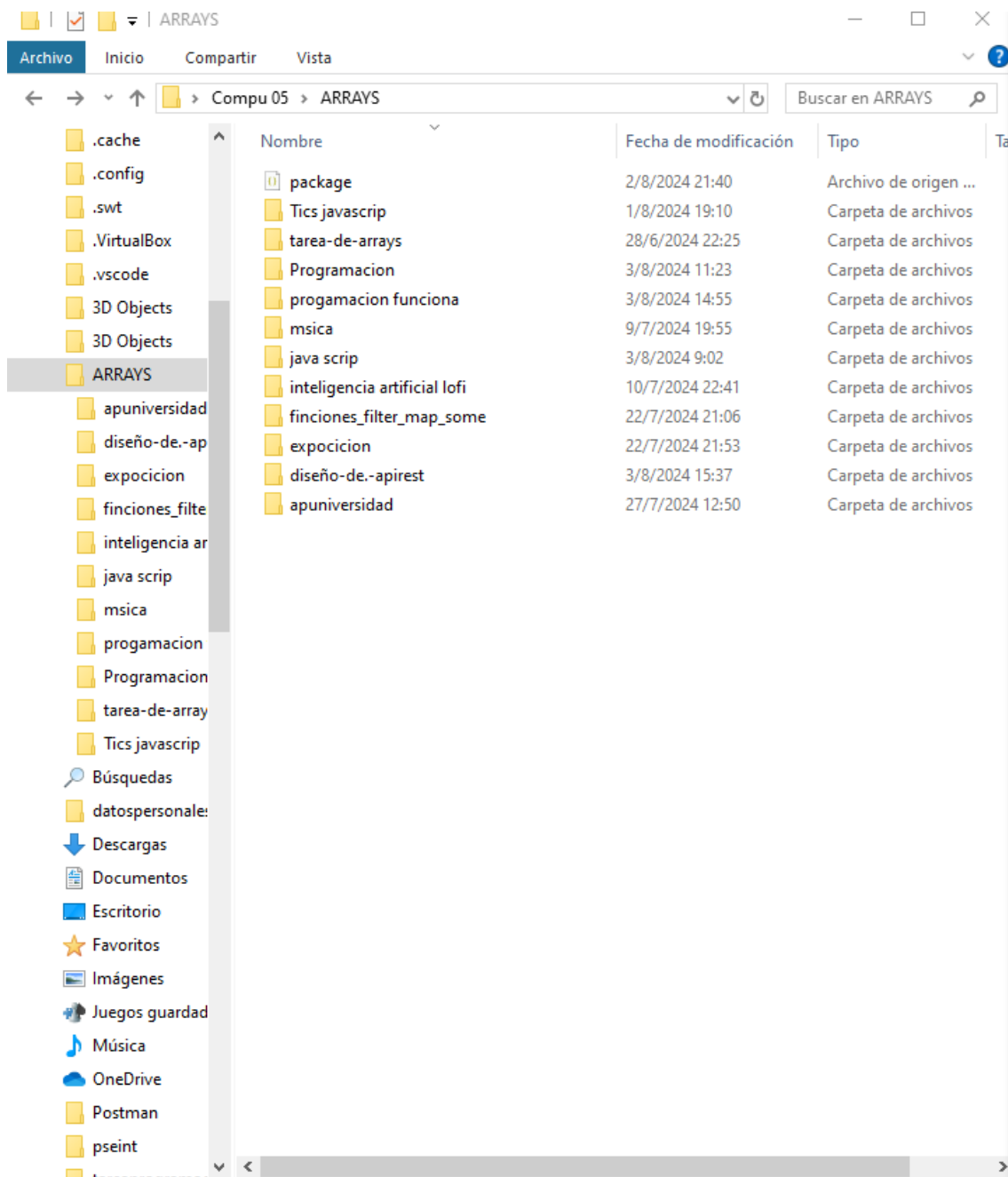
Diseño de una api rest.

Lo que haremos son pasos muy importantes para continuar creando un api rest
entramos a archivos

Creamos la carpeta



Yo cree lo que es el nombre de la carpeta se llama diseño de Api rest.



Segundo paso abrimos cmd traducido se llama comandos



Entramos y escribimos Npm init.

```
ca. npm init
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Compu05\ARRAYS\diseño-de.-apiREST>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-apiREST) _
```

El nombre del nombre del paquete que no muestra el comando Pulsamos enter

```
Press ^C at any time to quit.
package name: (diseño-de.-apiREST) --version
version: (1.0.0)
```

Sale la versión de el paquete es 1.0.0

```
ca. npm init
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.

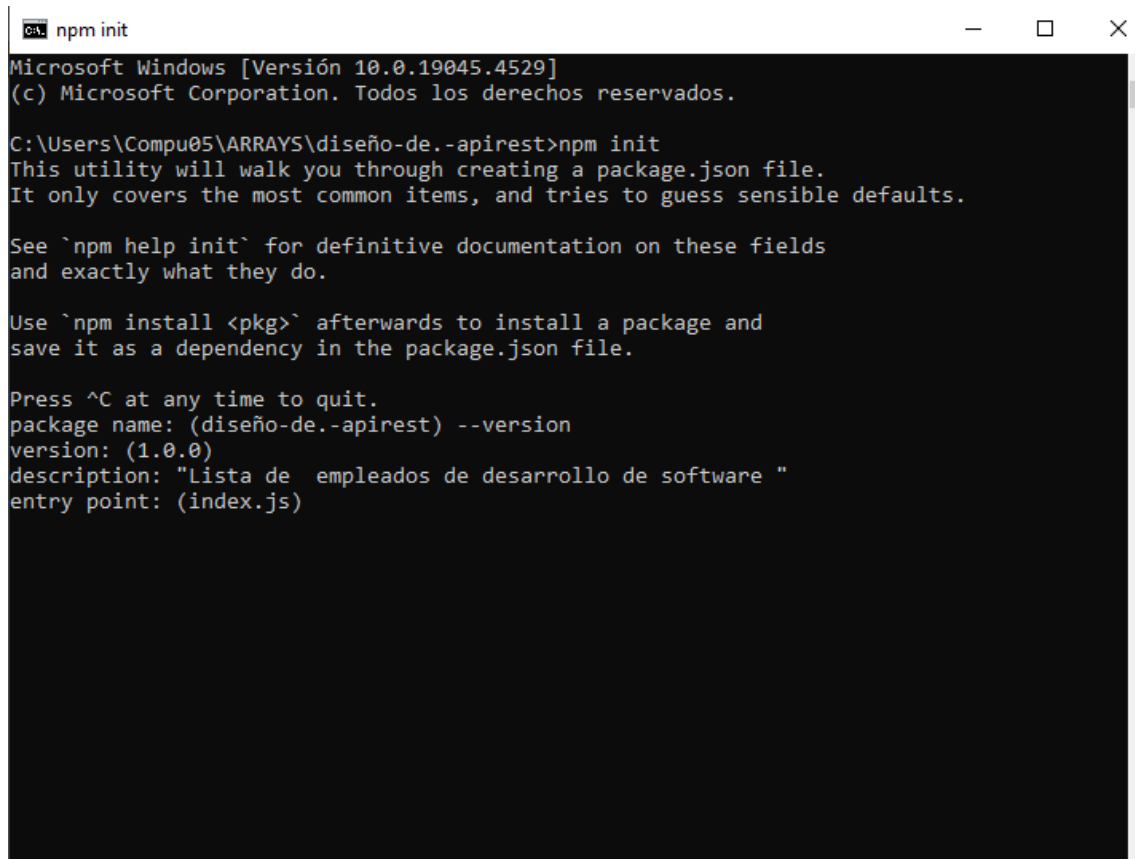
C:\Users\Compu05\ARRAYS\diseño-de.-apiREST>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-apiREST) --version
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
```

En mi caso puse lista de empleados en desarrollo de software



```
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Compu05\ARRAYS\diseño-de.-apiest>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-apiest) --version
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js)
```

Lo que debemos es presionar enter encontramos que es index.js que significa Javascript

```
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Compu05\ARRAYS\diseño-de.-api-rest>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-api-rest) --version
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js) server.js
test command:
git repository:
keywords: ejemplo de crear un api rest croud
```

Y en lo que aparece esto: keywords: Escribí ejemplo crear un api

```
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.


C:\Users\Compu05\ARRAYS\diseño-de.-api-rest>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

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save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-api-rest) --version
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js) server.js
test command:
git repository:
keywords: ejemplo de crear un api rest, croud
author: Jandry Steven Zambrano Palacios
license: (ISC) ■
```

Nombre del autor y licencia

 npm init

```
Microsoft Windows [Versión 10.0.19045.4529]
(c) Microsoft Corporation. Todos los derechos reservados.

C:\Users\Compu05\ARRAYS\diseño-de.-apiest>npm init
This utility will walk you through creating a package.json file.
It only covers the most common items, and tries to guess sensible defaults.

See `npm help init` for definitive documentation on these fields
and exactly what they do.

Use `npm install <pkg>` afterwards to install a package and
save it as a dependency in the package.json file.

Press ^C at any time to quit.
package name: (diseño-de.-apiest) --version
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js) server.js
test command:
git repository:
keywords: ejemplo de crear un api rest, croud
author: Jandry Steven Zambrano Palacios
license: (ISC)
About to write to C:\Users\Compu05\ARRAYS\diseño-de.-apiest\package.json:
{
  "name": "--version",
  "version": "1.0.0",
  "description": "\"Lista de empleados de desarrollo de software \"",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "ejemplo",
    "de",
    "crear",
    "un",
    "api",
    "rest",
    "croud"
  ],
  "author": "Jandry Steven Zambrano Palacios",
  "license": "ISC"
}

Is this OK? (yes) _
```

¿Presionas enter te sale todo lo que escribiste y confirmar si está bien (si)?

```
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js) server.js
test command:
git repository:
keywords: ejemplo de crear un api rest, croud
author: Jandry Steven Zambrano Palacios
license: (ISC)
About to write to C:\Users\Compu05\ARRAYS\diseño-de.-apiREST\package.json:

{
  "name": "--version",
  "version": "1.0.0",
  "description": "\"Lista de empleados de desarrollo de software \"",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "ejemplo",
    "de",
    "crear",
    "un",
    "api",
    "rest",
    "croud"
  ],
  "author": "Jandry Steven Zambrano Palacios",
  "license": "ISC"
}

Is this OK? (yes)

C:\Users\Compu05\ARRAYS\diseño-de.-apiREST>
```

Sale que ya esta confirmado te sale la carpeta de apiREST

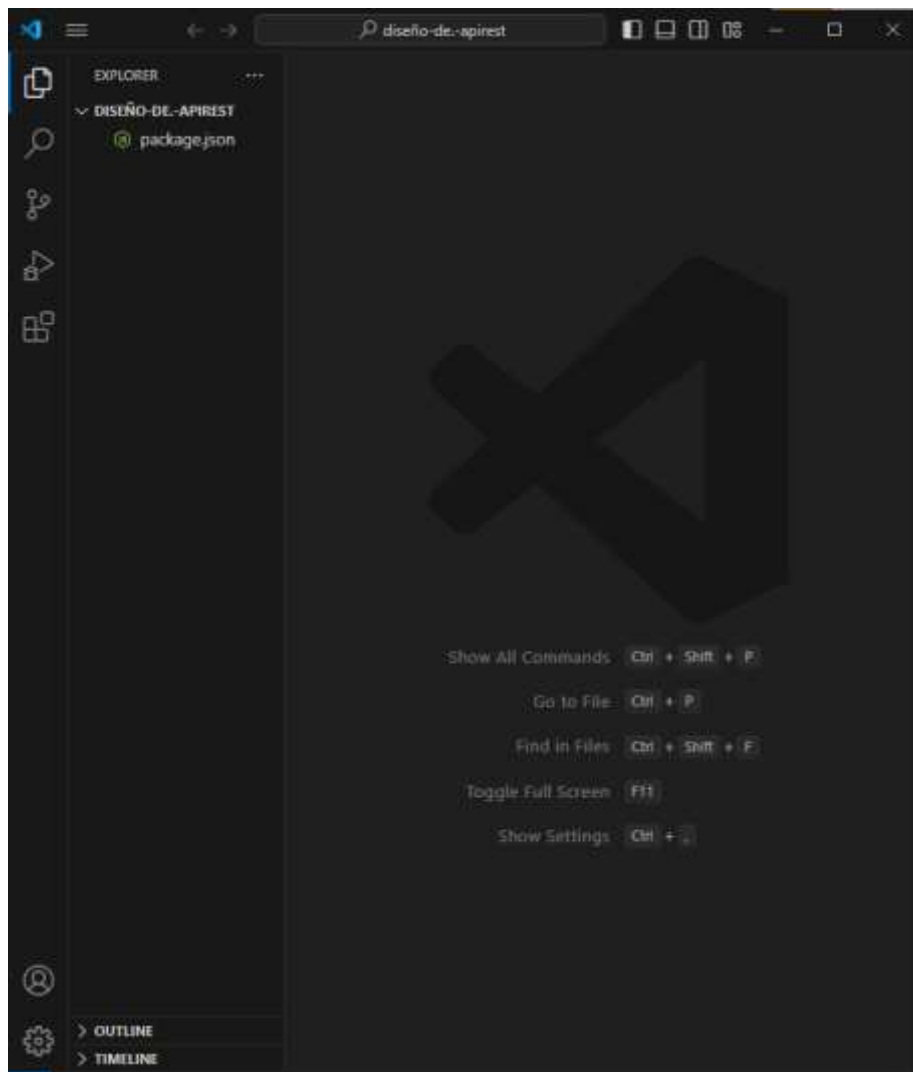
```
C:\Windows\System32\cmd.exe
version: (1.0.0)
description: "Lista de empleados de desarrollo de software "
entry point: (index.js) server.js
test command:
git repository:
keywords: ejemplo de crear un api rest, croud
author: Jandry Steven Zambrano Palacios
license: (ISC)
About to write to C:\Users\Compu05\ARRAYS\diseño-de.-api-rest\package.json:

{
  "name": "--version",
  "version": "1.0.0",
  "description": "\"Lista de empleados de desarrollo de software \"",
  "main": "server.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "keywords": [
    "ejemplo",
    "de",
    "crear",
    "un",
    "api",
    "rest",
    "croud"
  ],
  "author": "Jandry Steven Zambrano Palacios",
  "license": "ISC"
}

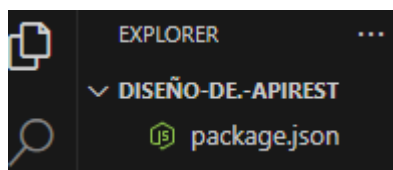
Is this OK? (yes)

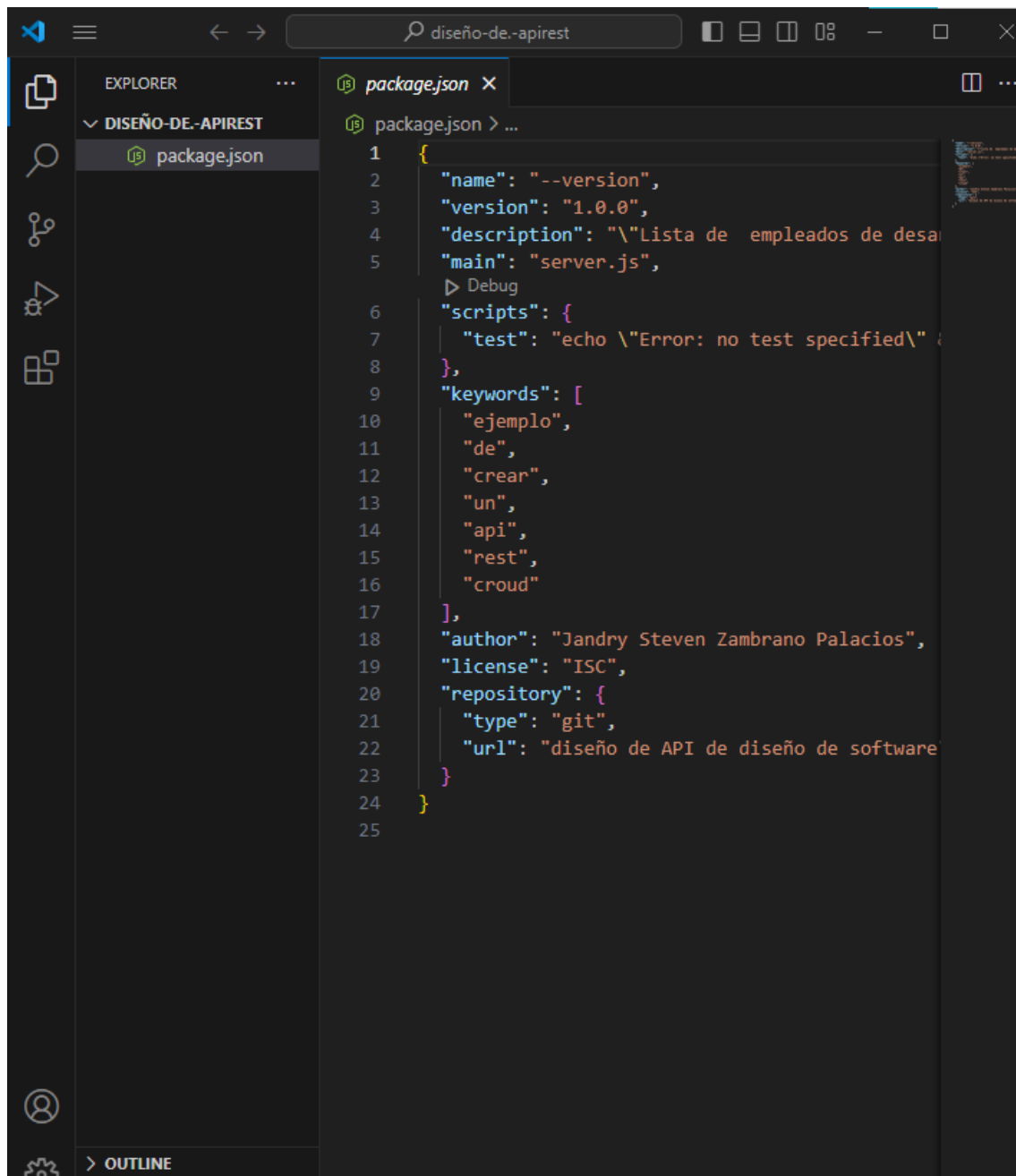
C:\Users\Compu05\ARRAYS\diseño-de.-api-rest>code.
```

Para entrar a visual studio code sin ir a abrir un folder usar el comando code .



Y entramos a visual studio code encontramos package.json

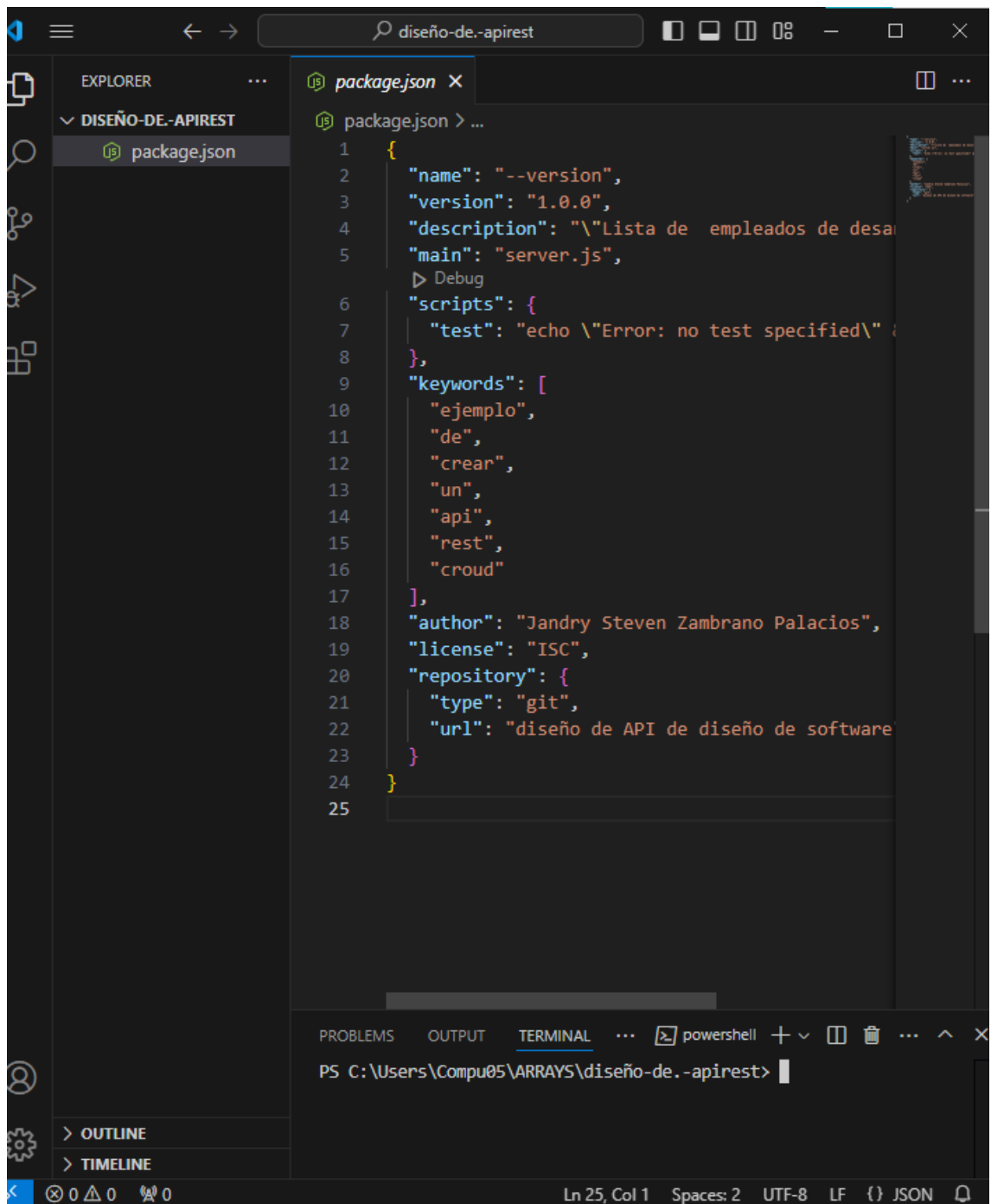


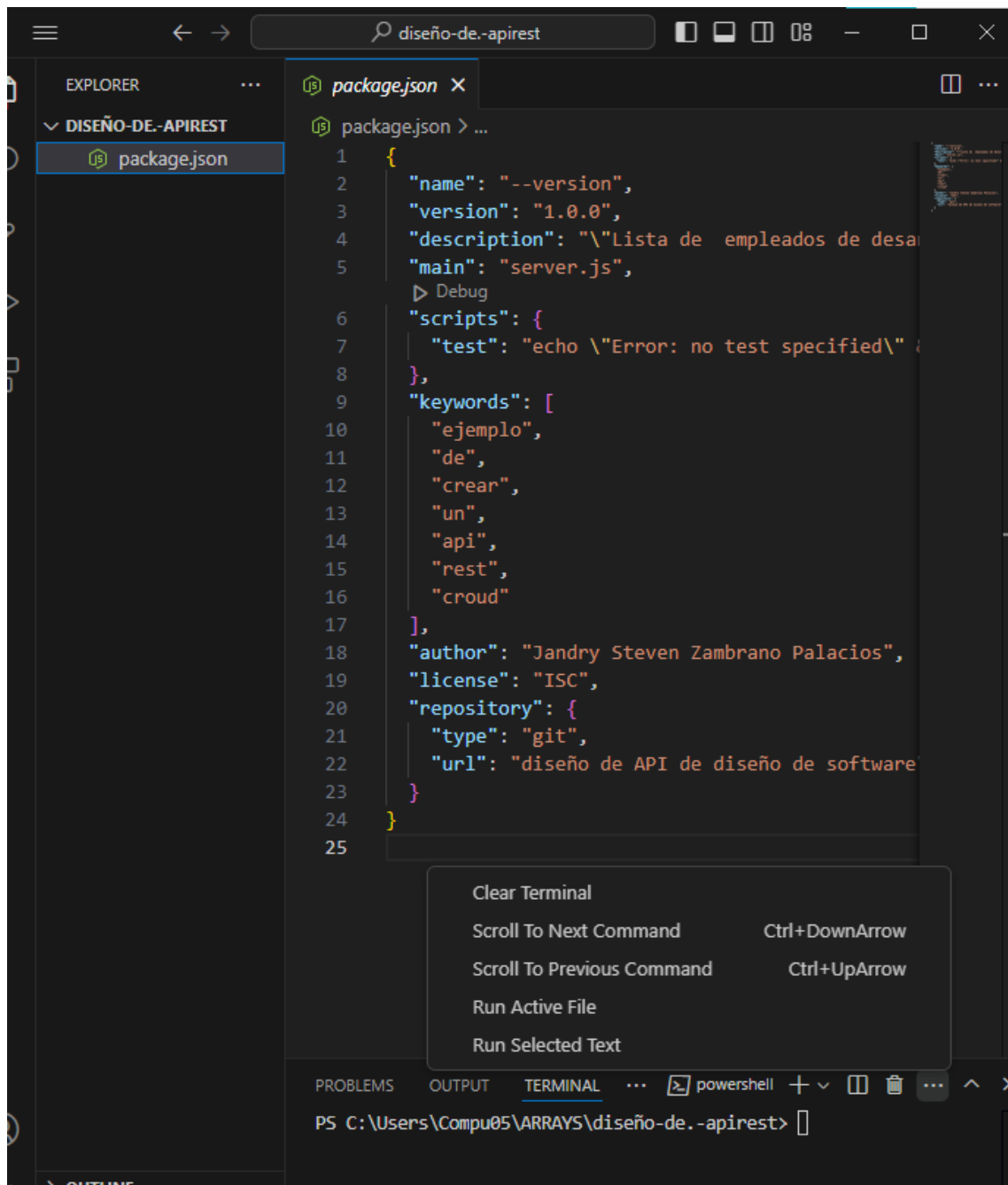


The image shows a screenshot of the Visual Studio Code editor interface. The Explorer sidebar on the left shows a project named 'DISEÑO-DE.-APIREST' with a file named 'package.json' selected. The main editor area displays the contents of 'package.json' with line numbers 1 through 25. The JSON content is as follows:

```
1 {
2   "name": "--version",
3   "version": "1.0.0",
4   "description": "\"Lista de empleados de desa",
5   "main": "server.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\"",
8   },
9   "keywords": [
10    "ejemplo",
11    "de",
12    "crear",
13    "un",
14    "api",
15    "rest",
16    "croud"
17  ],
18   "author": "Jandry Steven Zambrano Palacios",
19   "license": "ISC",
20   "repository": {
21     "type": "git",
22     "url": "diseño de API de diseño de software"
23   }
24 }
25
```

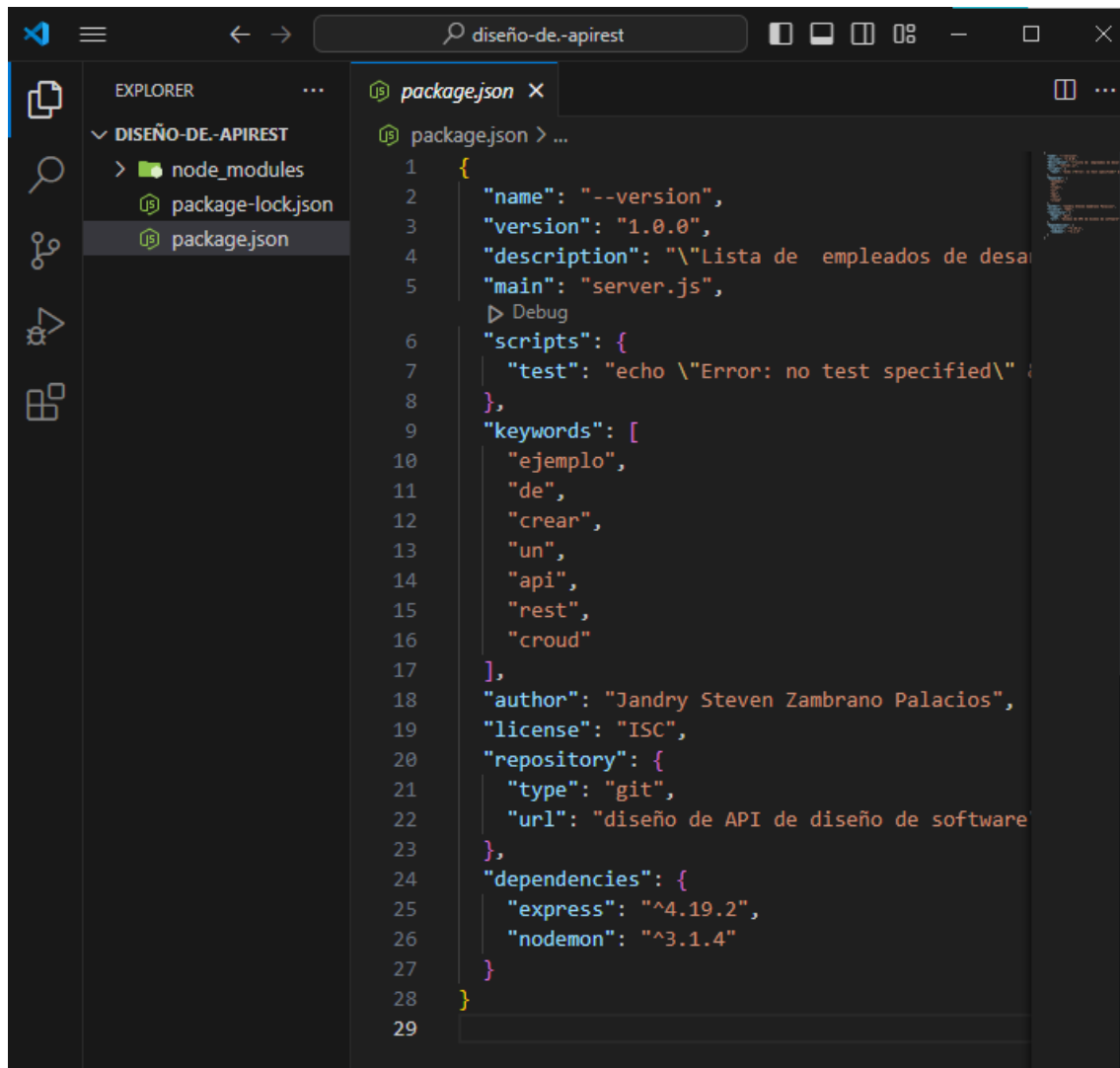
Ya que ubicamos todo lo que estaba en cmd en visual studio code te sale esto: lo que habia escrito





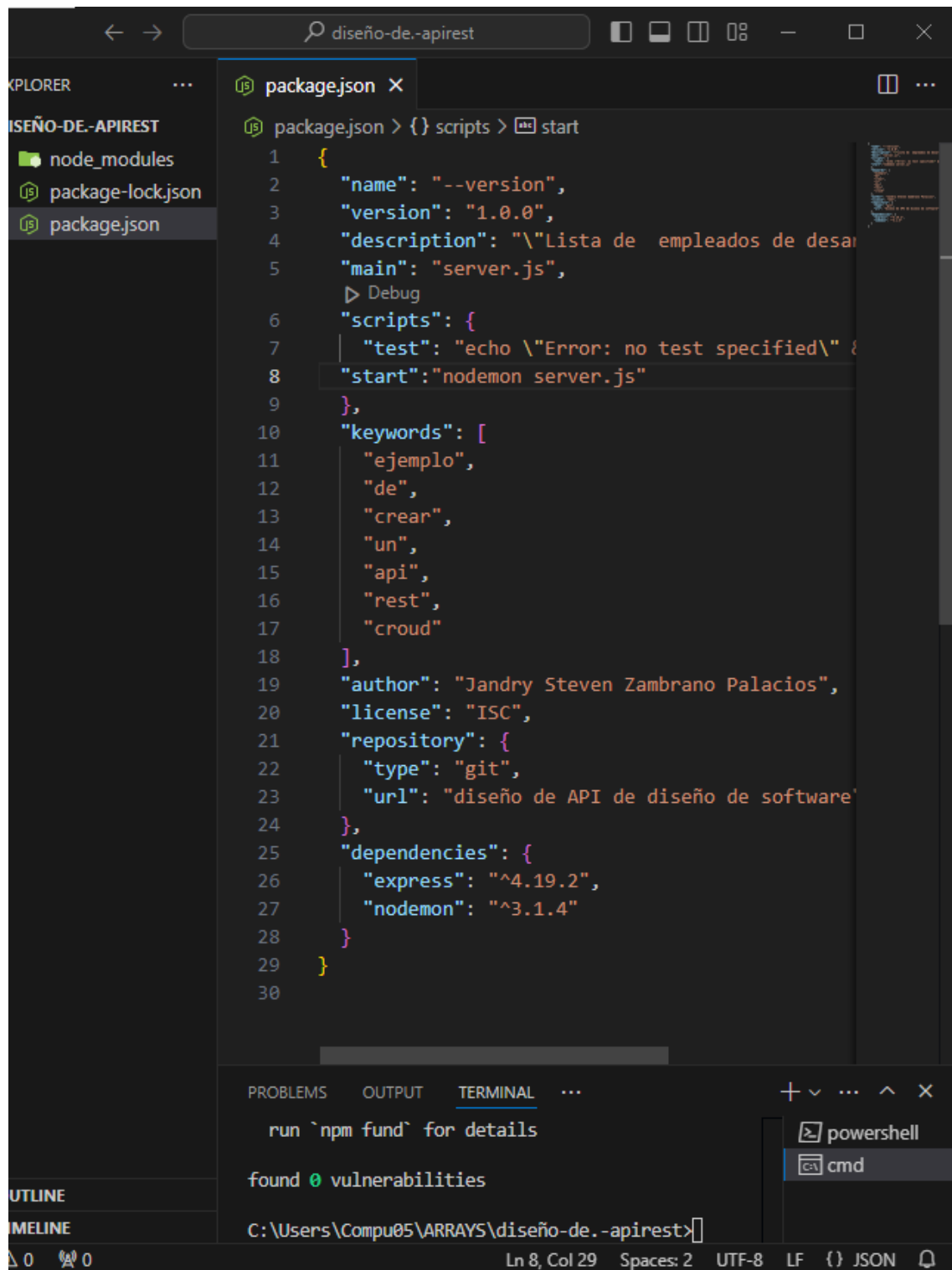
Abrimos el terminal de visual studio code y instalamos lo que nos ayuda a usar los datos de cada programa usando el comando npm i :que significa instalar y escribes el nombre de lo que vas a instalar con cntrl ñ abrimos el terminal si no se ejecuta en el terminal usamos el comando to previous command. Instalé express

```
"express": "^4.19.2"
```



```
1 {
2   "name": "--version",
3   "version": "1.0.0",
4   "description": "\"Lista de empleados de desar",
5   "main": "server.js",
6   "scripts": {
7     "test": "echo \"Error: no test specified\"",
8   },
9   "keywords": [
10    "ejemplo",
11    "de",
12    "crear",
13    "un",
14    "api",
15    "rest",
16    "croud"
17  ],
18   "author": "Jandry Steven Zambrano Palacios",
19   "license": "ISC",
20   "repository": {
21     "type": "git",
22     "url": "diseño de API de diseño de software"
23   },
24   "dependencies": {
25     "express": "^4.19.2",
26     "nodemon": "^3.1.4"
27   }
28 }
```

Instalamos nodemon



Ubicamos start:nodemon server

▼ NODE-EXPRESS-MONGODB

▼ app

▼ config

JS db.config.js

▼ controllers

JS tutorial.controller.js

▼ models

JS index.js

JS tutorial.model.js

▼ routes

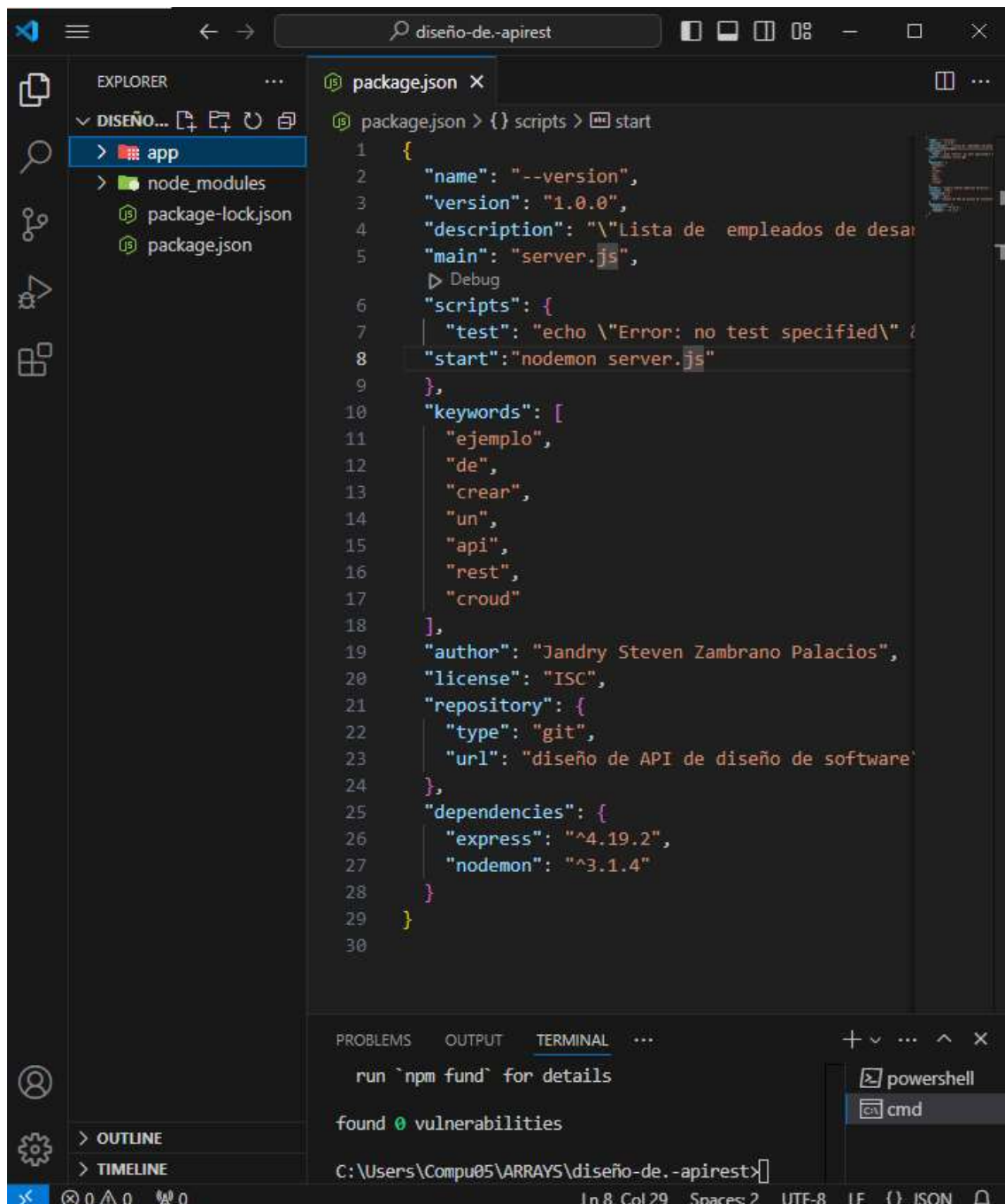
JS tutorial.routes.js

> node_modules

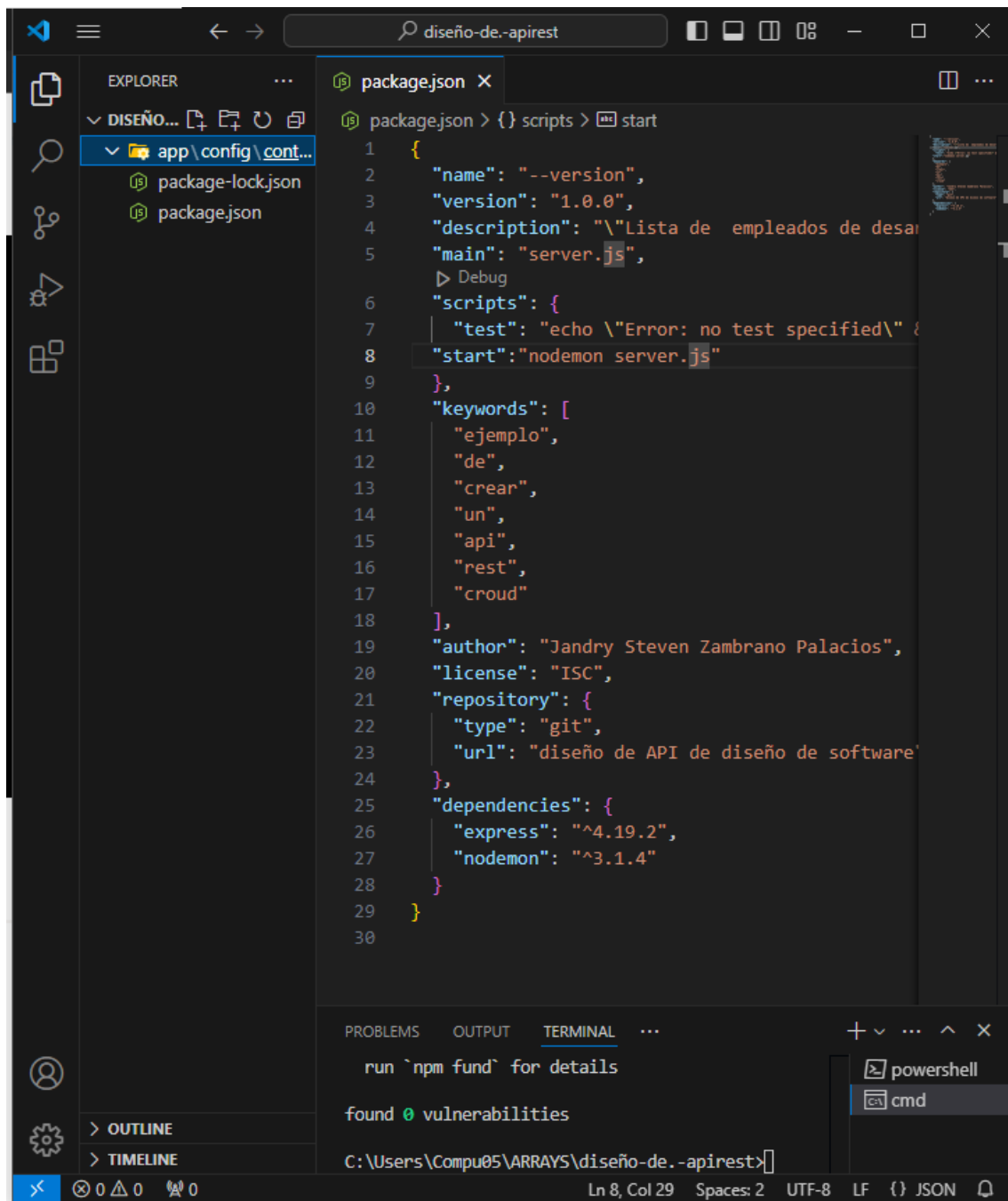
{ } package-lock.json

{ } package.json

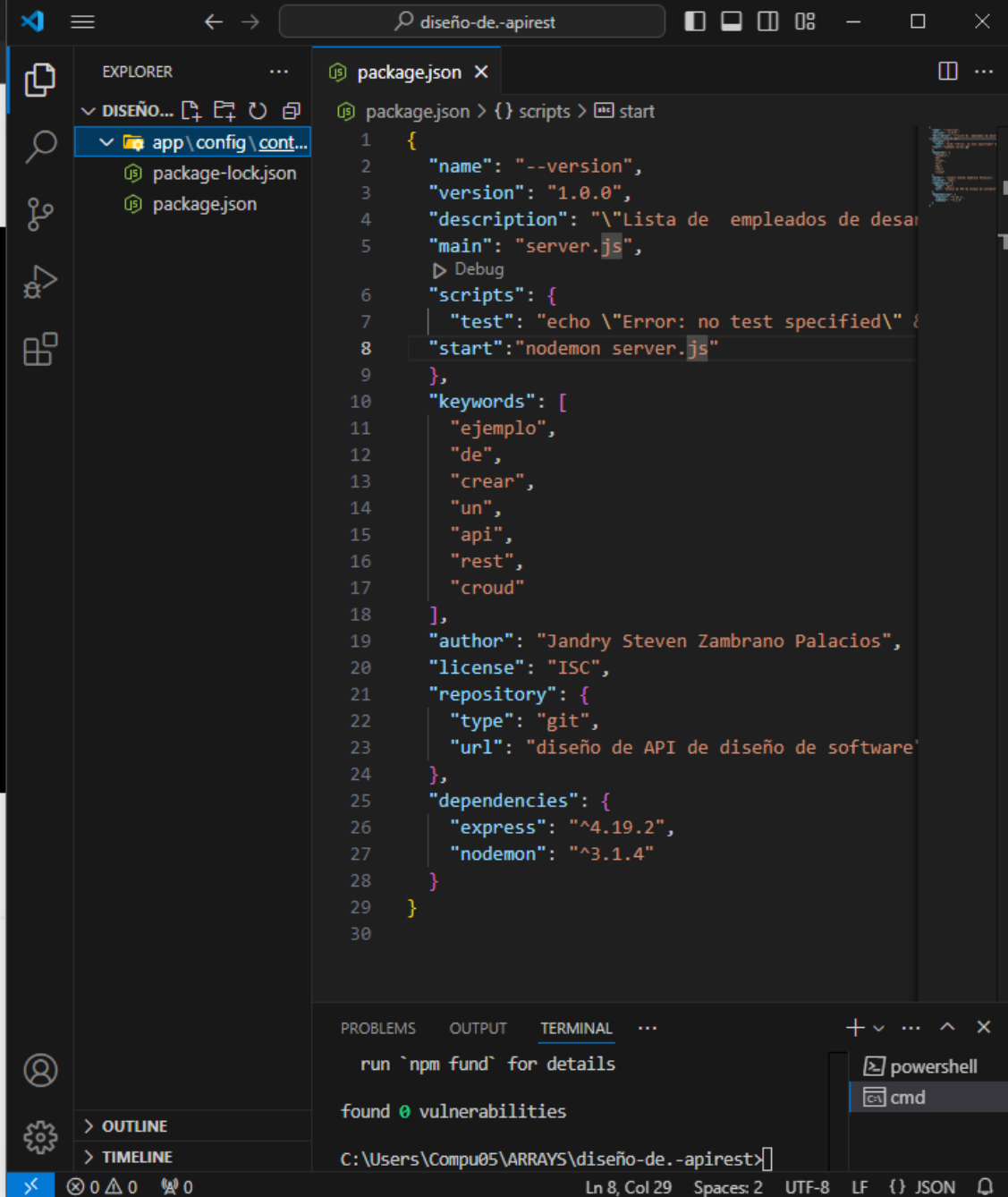
JS server.js



Creamos carpetas en visual studio code.la primera es app



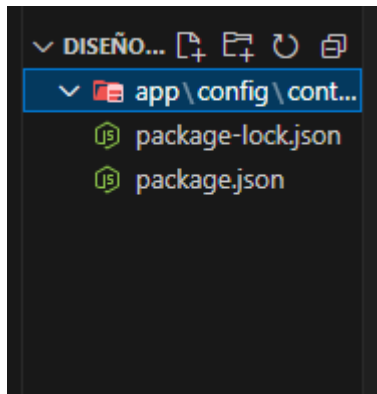
creamos una carpeta dentro de la carpeta app config



The screenshot shows the Visual Studio Code interface. The Explorer panel on the left shows a project structure with a folder named 'DISEÑO...' containing a subfolder 'app' and a file 'package.json'. The 'app' folder is expanded, showing a subfolder 'config' and a file 'package.json'. The main editor displays the content of the 'package.json' file, which is a JSON object with various fields including 'name', 'version', 'description', 'main', 'scripts', 'keywords', 'author', 'license', 'repository', and 'dependencies'. The 'scripts' field is highlighted, showing a 'start' script that runs 'nodemon server.js'. The terminal panel at the bottom shows the command 'run `npm fund` for details' and the output 'found 0 vulnerabilities'. The terminal is running in a 'cmd' (Command Prompt) shell.

```
package.json > {} scripts > start
1  {
2    "name": "--version",
3    "version": "1.0.0",
4    "description": "\"Lista de empleados de desar",
5    "main": "server.js",
6    "scripts": {
7      "test": "echo \"Error: no test specified\" & exit 1",
8      "start": "nodemon server.js"
9    },
10   "keywords": [
11     "ejemplo",
12     "de",
13     "crear",
14     "un",
15     "api",
16     "rest",
17     "croud"
18   ],
19   "author": "Jandry Steven Zambrano Palacios",
20   "license": "ISC",
21   "repository": {
22     "type": "git",
23     "url": "diseño de API de diseño de software"
24   },
25   "dependencies": {
26     "express": "^4.19.2",
27     "nodemon": "^3.1.4"
28   }
29 }
30
```

run `npm fund` for details
found 0 vulnerabilities
C:\Users\Compu05\ARRAYS\diseño-de.-apirest>



creamos controller moodles y routers

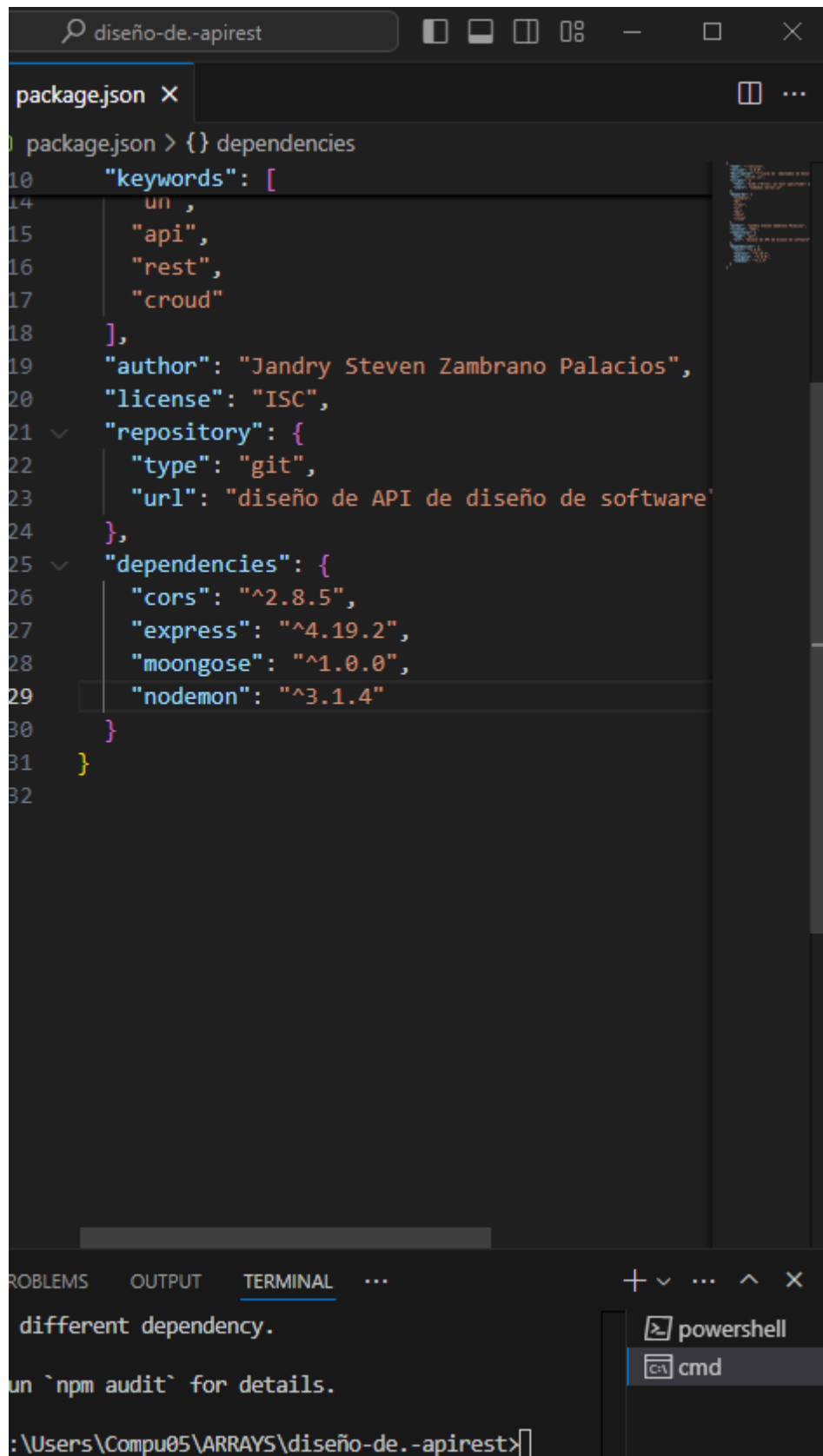
We need to install necessary modules: `express`, `mongoose` and `cors`.

Run the command:

```
npm install express mongoose cors --save
```

The `package.json` file should look like this:

La instalación de `express` `mongoose` `cors`



The image shows a Visual Studio Code editor window with a file named 'package.json' open. The file content is as follows:

```
1 package.json > {} dependencies
10   "keywords": [
14     "un",
15     "api",
16     "rest",
17     "croud"
18   ],
19   "author": "Jandry Steven Zambrano Palacios",
20   "license": "ISC",
21   "repository": {
22     "type": "git",
23     "url": "diseño de API de diseño de software"
24   },
25   "dependencies": {
26     "cors": "^2.8.5",
27     "express": "^4.19.2",
28     "mongoose": "^1.0.0",
29     "nodemon": "^3.1.4"
30   }
31 }
32
```

At the bottom, the 'TERMINAL' panel is active, showing the following text:

```
different dependency.
un `npm audit` for details.
: \Users\Compu05\ARRAYS\diseño-de.-apiREST>
```

On the right side of the terminal panel, there are buttons for 'powershell' and 'cmd'.

Instalacion de moongose y cors

WorkspacesMore

GET listacGET progrGET UntitGET http;

No environment

http://localhost:8080

SaveShare

GET

http://localhost:8080

Send

ParamsAuthHeaders (6)BodyScriptsSettings

Cookies

form-data

Key	Value	Description	Bulk Edit
Key	TextValue	Description	

Body

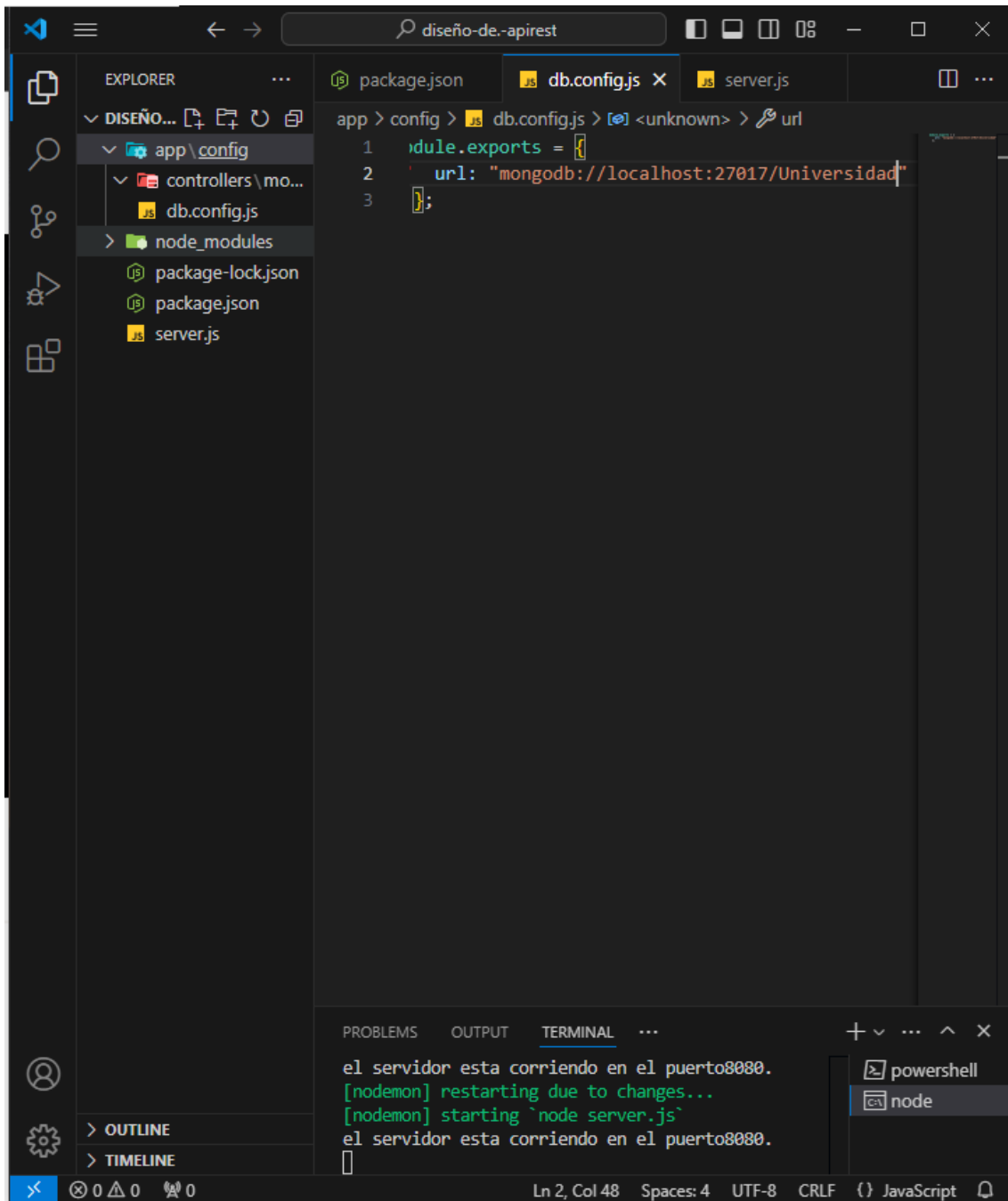
200 OK32 ms336 BSave as example

PrettyRawPreviewVisualizeJSON

```
1 {
2   "message": "bienvenidos a la api."
3 }
```

localhost8080

```
1 {
2   "message": "bienvenidos a la api."
3 }
```



Id	baea0f21d3ba479378bc1a4	ObjectId
created: 2024-08-03T21:28:18.000Z	001	String
machine: 1915812	ortocarrero antonio	String
pid: 31031	24	Int32
counter: 8831396	1	Int32
mes	1200.34	Double
ingresos	569.88	Double
engresos	630.46	Double
recibe		

Key	Value	Type
> (1) {_id : 66aea0f21d3ba4793786c1a { 8 fields }}		Document
▼ (2) {_id : 66aea0fe1d3ba4793786c1a { 8 fields }}		Document
_id	66aea0fe1d3ba4793786c1a5	ObjectId
codigo_emp	0001	String
empleado	martina montañó	String
año	2024	Int32
mes	1	Int32
ingresos	1700.44	Double
engresos	919.98	Double
recibe	550.8	Double
> (3) {_id : 66aea1001d3ba4793786c1a { 8 fields }}		Document

Key	Value	Type
> (1) {_id : 66aea0f21d3ba4793786c1a { 8 fields }}		Document
> (2) {_id : 66aea0fe1d3ba4793786c1a { 8 fields }}		Document
▼ (3) {_id : 66aea1001d3ba4793786c1a { 8 fields }}		Document
_id	66aea1001d3ba4793786c1a6	ObjectId
codigo_emp	0001	String
empleado	José Ortiz	String
año	2024	Int32
mes	4	Int32
ingresos	2300.55	Double
engresos	969.18	Double
recibe	930.46	Double