



ceutec
de unitec®

2023

Centro Universitario Tecnológico

Asignatura: Programación 4

Ing. Yoni Móreles

Foro - Node JS- NPM – Git

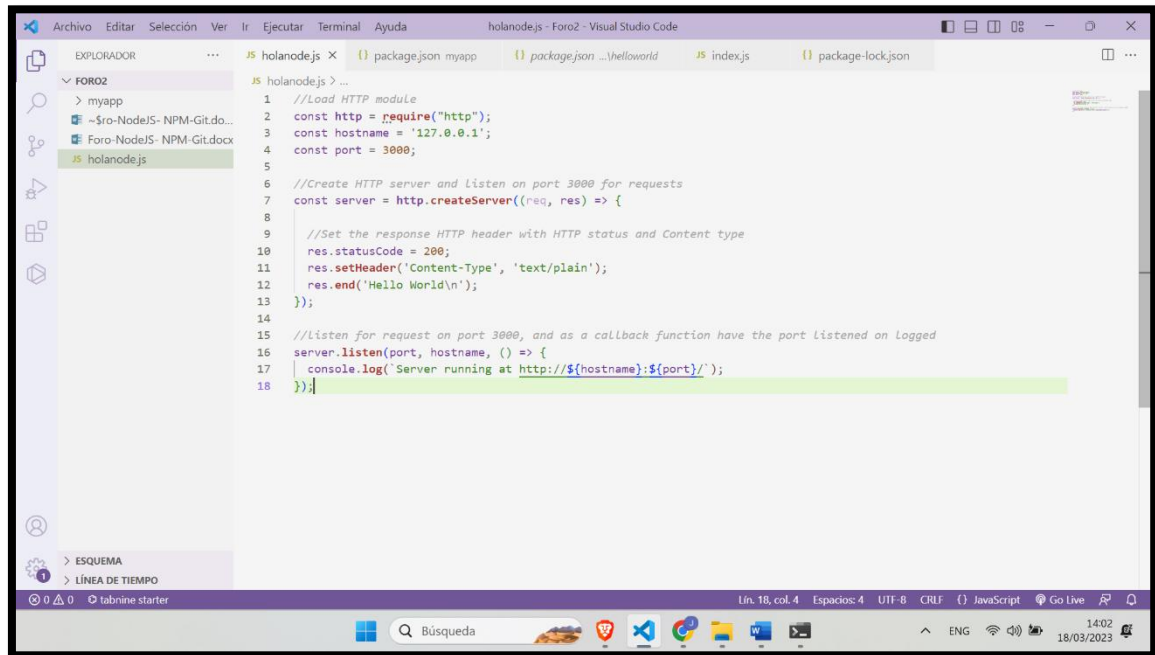
Alumno: Favio Amilcar David Paz

No. Cuenta: 6 1 6 1 1 8 2 8

Sección: 380

18 de enero

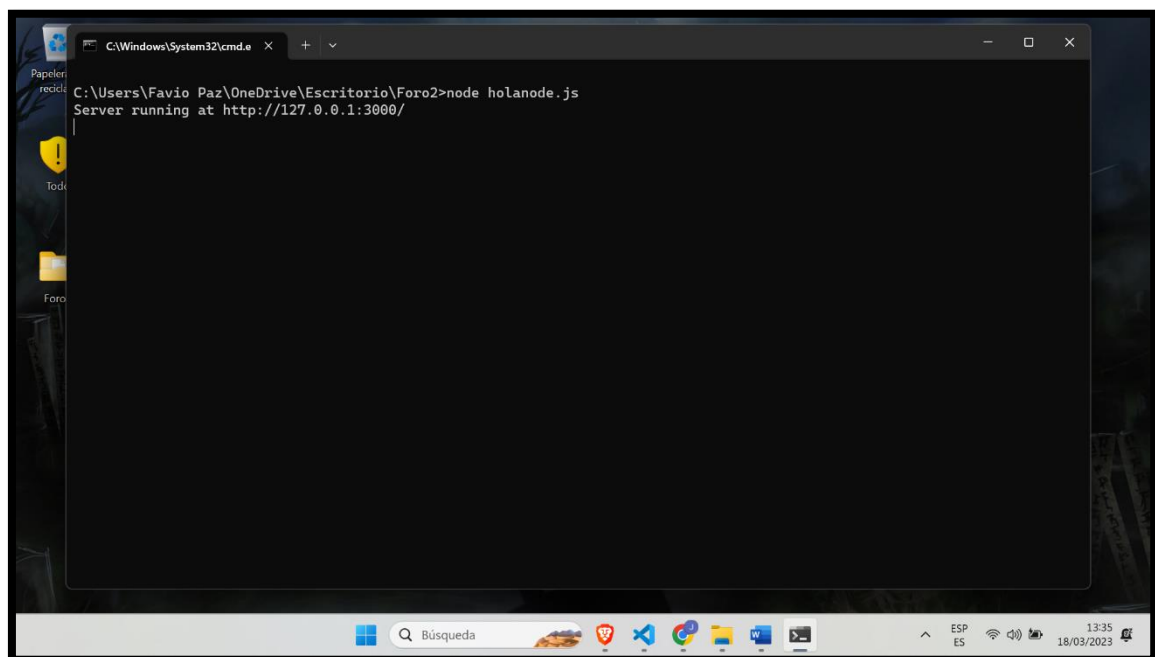
1. Copie el siguiente texto en un archivo llamado `holanode.js`. Este utiliza características básicas de Node (nada desde Express) y algo de sintaxis ES6:



The screenshot shows the Visual Studio Code editor with a file named `holanode.js` open. The code is a simple HTTP server using the `http` module. It sets a status code of 200, sets the content type to 'text/plain', and sends the response 'Hello World\n'. The server listens on port 3000 and logs the URL it is listening on.

```
1 //Load HTTP module
2 const http = require("http");
3 const hostname = '127.0.0.1';
4 const port = 3000;
5
6 //Create HTTP server and listen on port 3000 for requests
7 const server = http.createServer((req, res) => {
8
9   //Set the response HTTP header with HTTP status and Content type
10  res.statusCode = 200;
11  res.setHeader('Content-Type', 'text/plain');
12  res.end('Hello World\n');
13 });
14
15 //Listen for request on port 3000, and as a callback function have the port listened on logged
16 server.listen(port, hostname, () => {
17   console.log(`Server running at http://${hostname}:${port}/`);
18 });
```

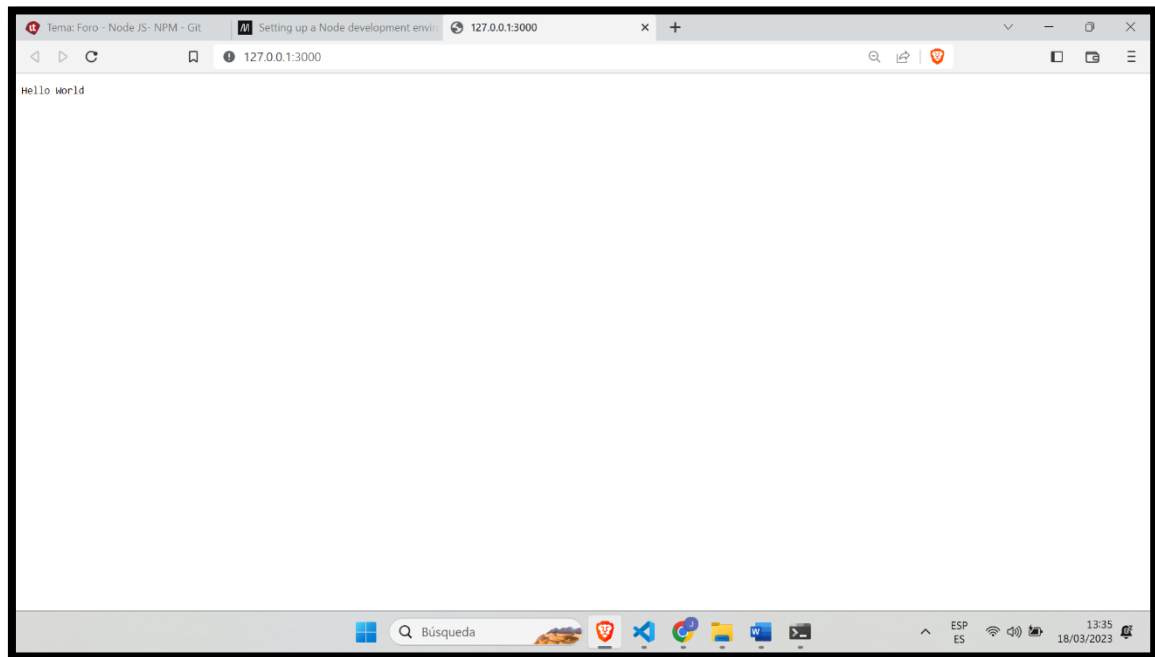
2. Inicie el servidor navegando en el mismo directorio que su archivo `hollonode.js` en su símbolo del sistema, y llamando a Node junto con el nombre del script, así:



The screenshot shows a Windows command prompt window with the command `node holanode.js` entered. The output of the command is `Server running at http://127.0.0.1:3000/`.

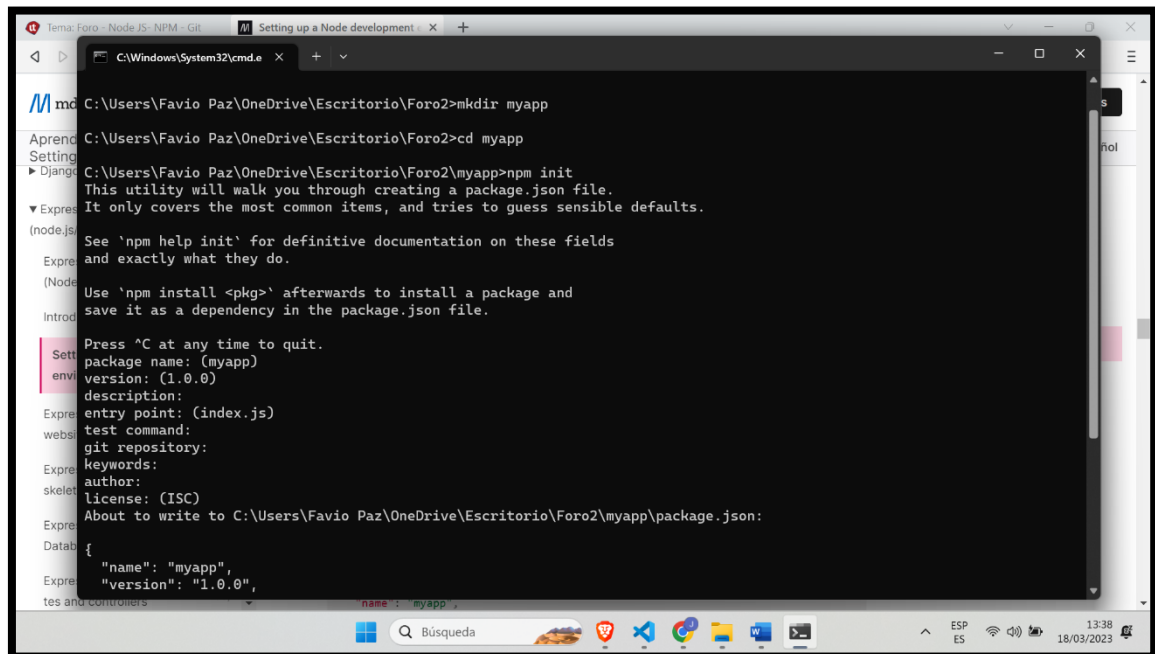
```
C:\Windows\System32\cmd.exe
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2>node holanode.js
Server running at http://127.0.0.1:3000/
```

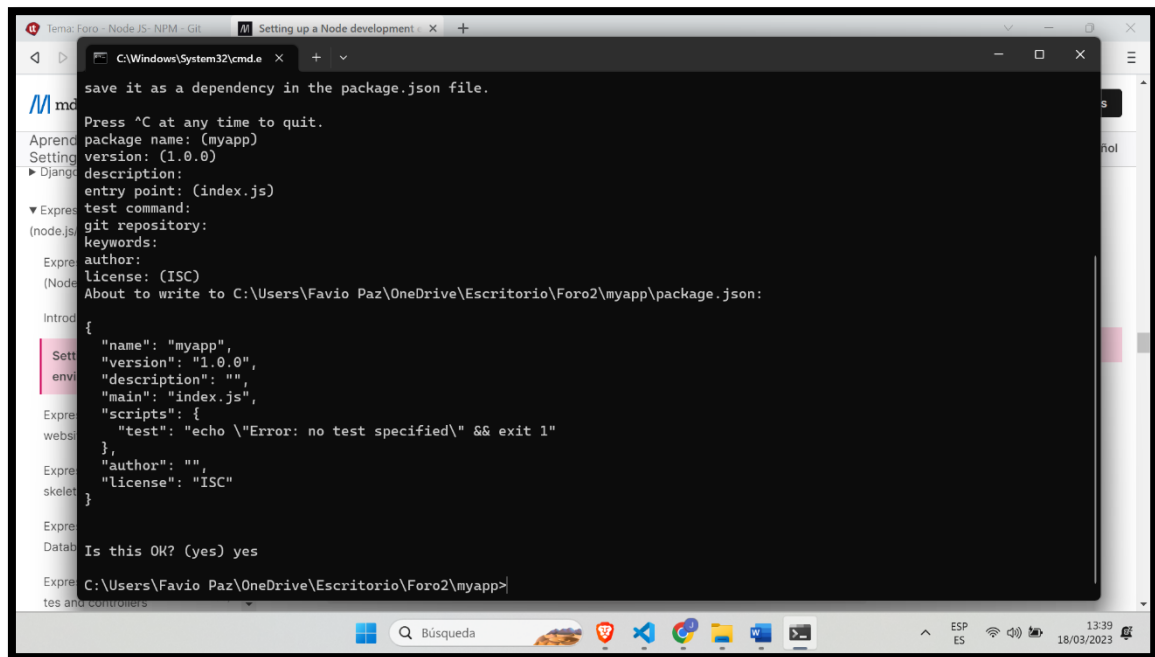
3. Navega a la URL `http://127.0.0.1:3000`. Si todo esta funciona, el navegador simplemente debe mostrar la cadena de texto "Hello World".



Agregando dependencias

Primero cree un directorio para su nueva aplicación y acceda a él:





The screenshot shows a Windows command prompt window titled "C:\Windows\System32\cmd.exe". The user has just finished creating a package.json file. The prompt shows the following text:

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

Press ^C at any time to quit.
package name: (myapp)
version: (1.0.0)
description:
entry point: (index.js)
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\package.json:

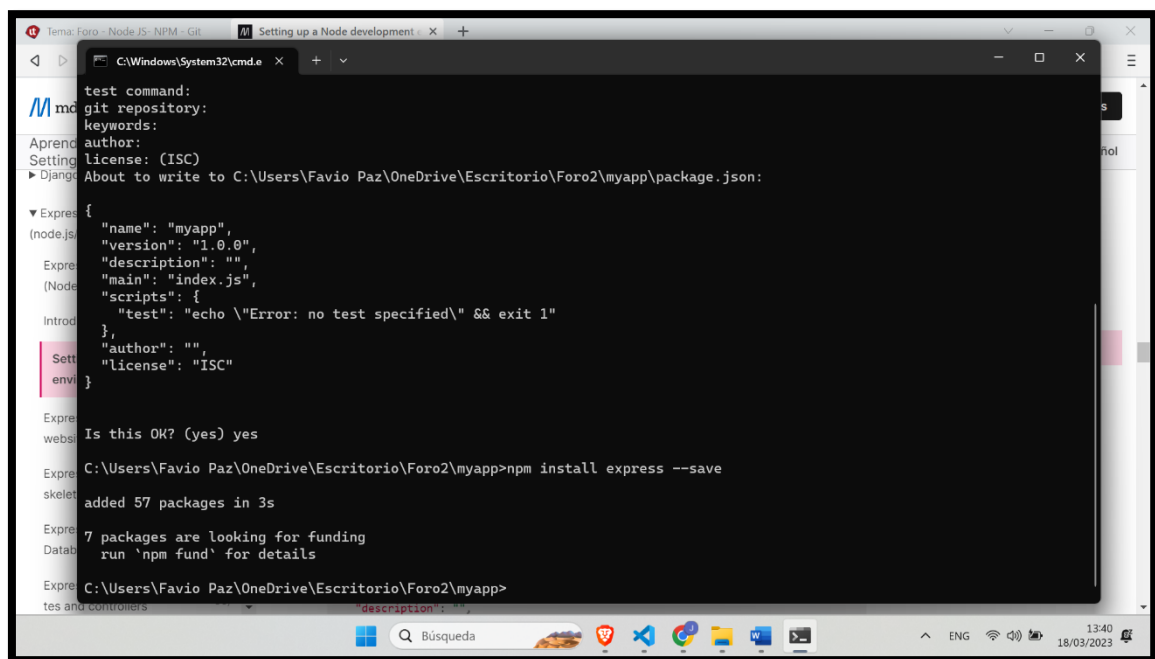
{
  "name": "myapp",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}

Is this OK? (yes) yes

C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>
```

The background shows a VS Code editor with a file explorer on the left and a code editor on the right.

Ahora instale Express en el directorio myapp y guárdelo en la lista de dependencias de su archivo package.json



The screenshot shows the same Windows command prompt window as before, but now with the installation of Express.js. The prompt shows the following text:

```
test command:
git repository:
keywords:
author:
license: (ISC)
About to write to C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\package.json:

{
  "name": "myapp",
  "version": "1.0.0",
  "description": "",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" && exit 1"
  },
  "author": "",
  "license": "ISC"
}

Is this OK? (yes) yes

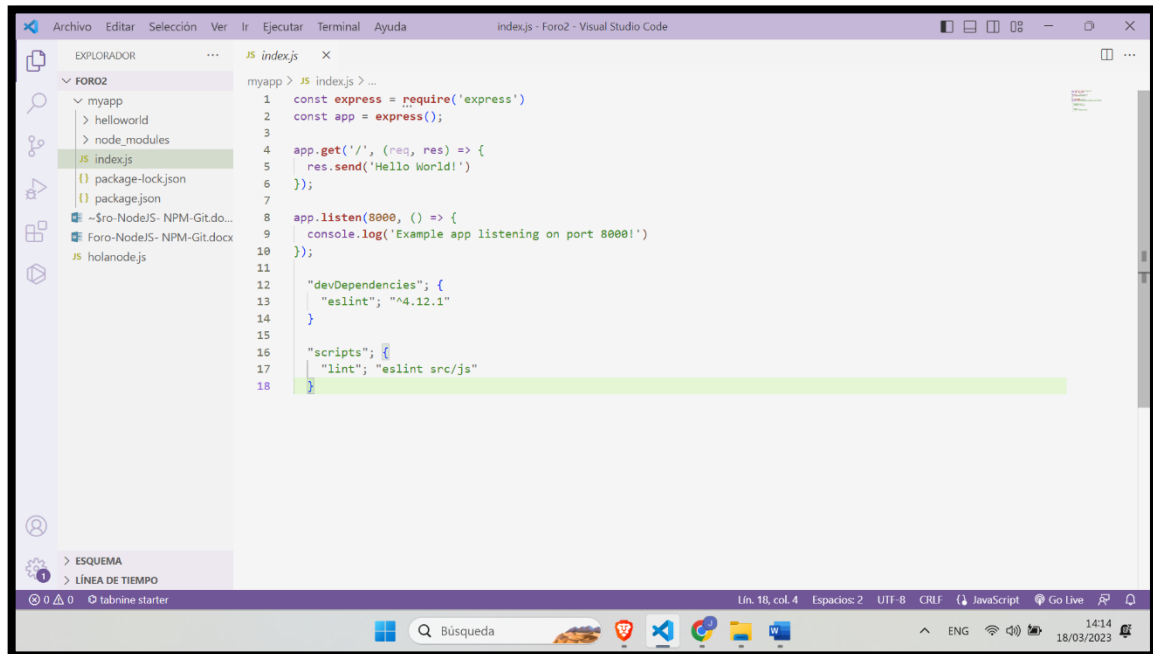
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>npm install express --save

added 57 packages in 3s
7 packages are looking for funding
  run 'npm fund' for details

C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>
```

The background shows the same VS Code editor as before.

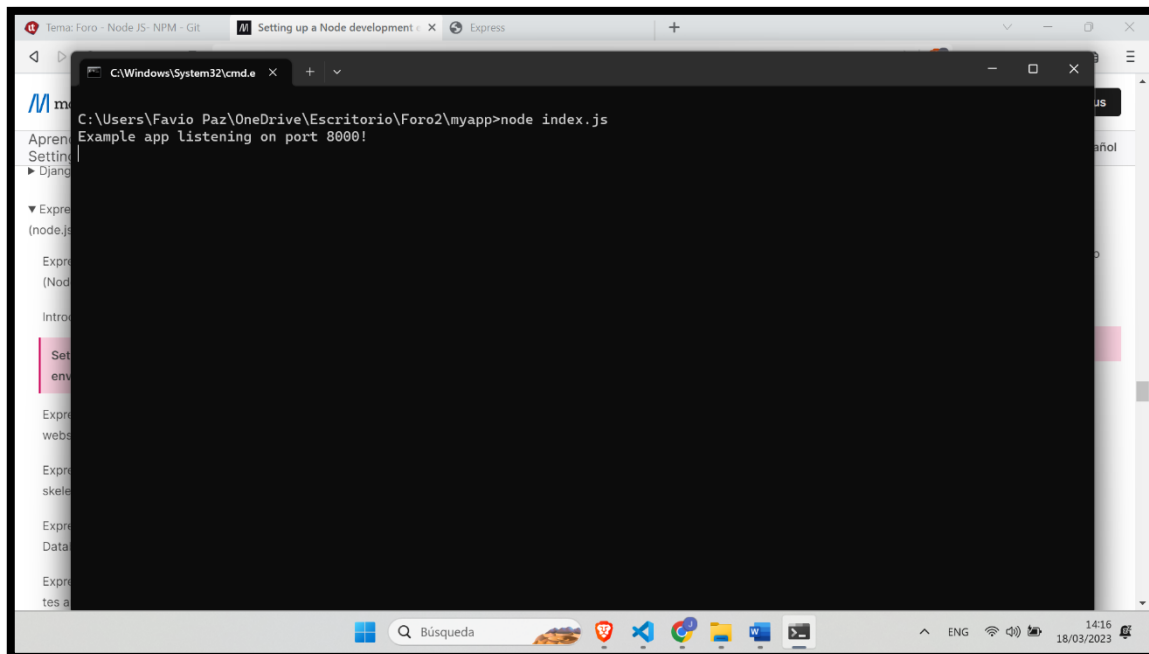
Para usar la biblioteca, llame a la función `require()` como se muestra a continuación en su archivo `index.js`. Cree un archivo llamado `index.js` en la raíz del directorio de la aplicación "myapp" y dele el contenido que se muestra arriba.



The screenshot shows the Visual Studio Code editor with the file `index.js` open in the `myapp` directory. The code in the file is as follows:

```
1 const express = require('express')
2 const app = express();
3
4 app.get('/', (req, res) => {
5   res.send('Hello World!')
6 });
7
8 app.listen(8000, () => {
9   console.log('Example app listening on port 8000!')
10 });
11
12 "devDependencies": {
13   "eslint": "^4.12.1"
14 }
15
16 "scripts": {
17   "lint": "eslint src/js"
18 }
```

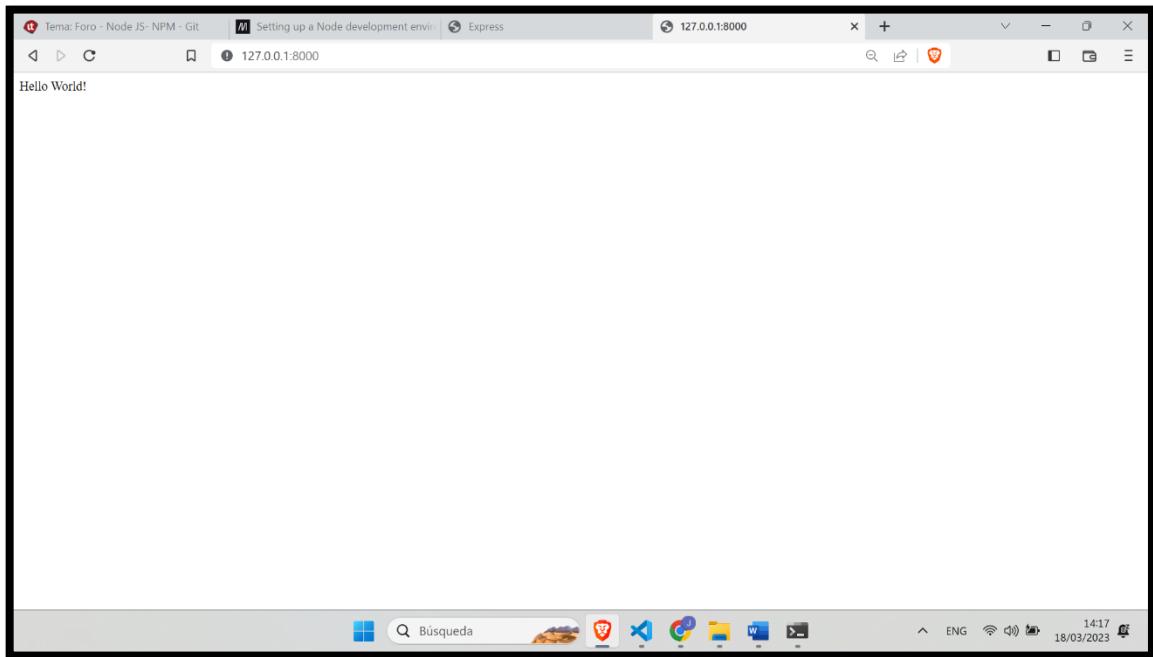
Puede iniciar el servidor llamando a node con el script en su símbolo del sistema:



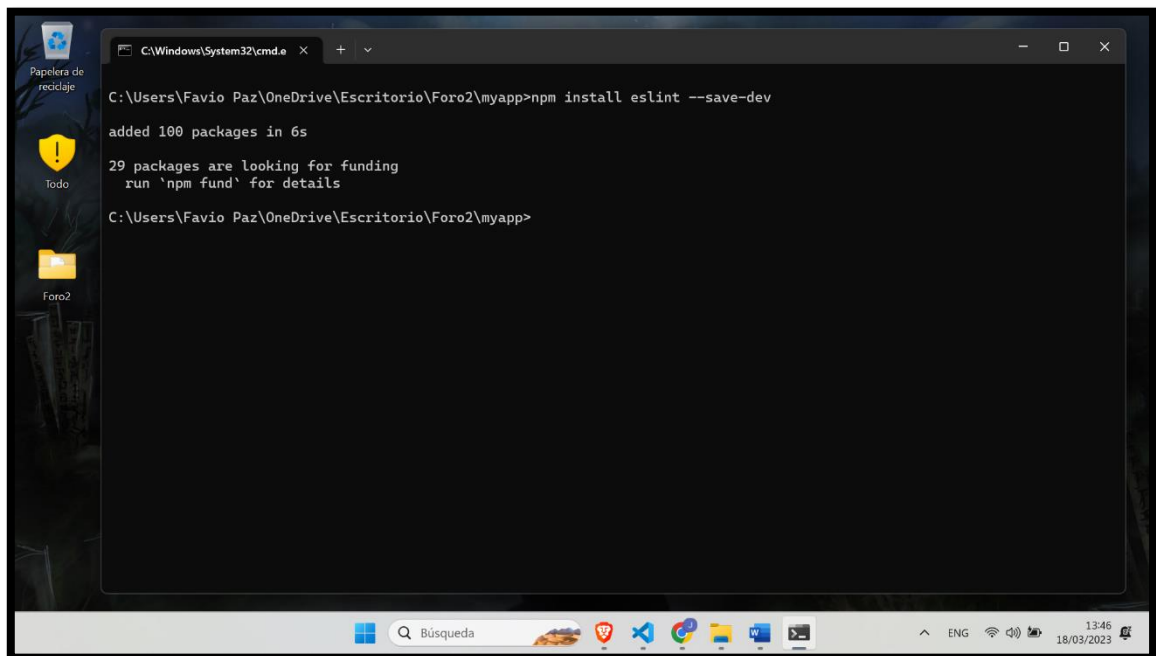
The screenshot shows a Windows command prompt window with the following command and output:

```
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>node index.js
Example app listening on port 8000!
```

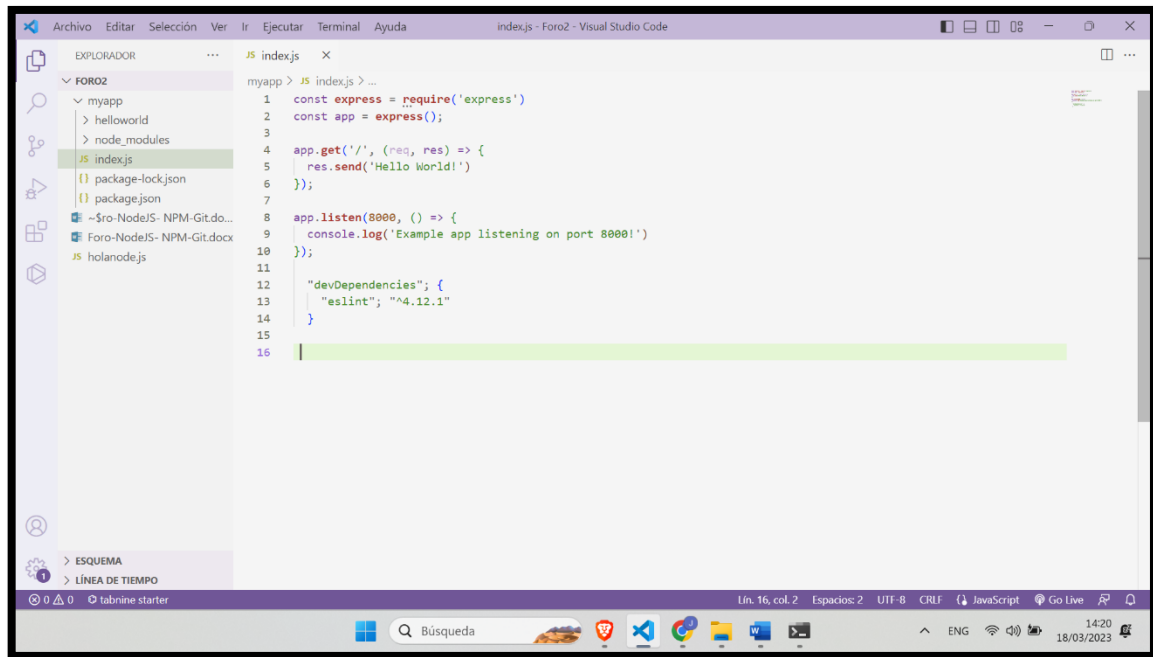
Navega a la URL (<http://127.0.0.1:8000/>). Si todo esta funciona, el navegador simplemente debe mostrar la cadena de texto "Hello World".



Dependencias de Desarrollo

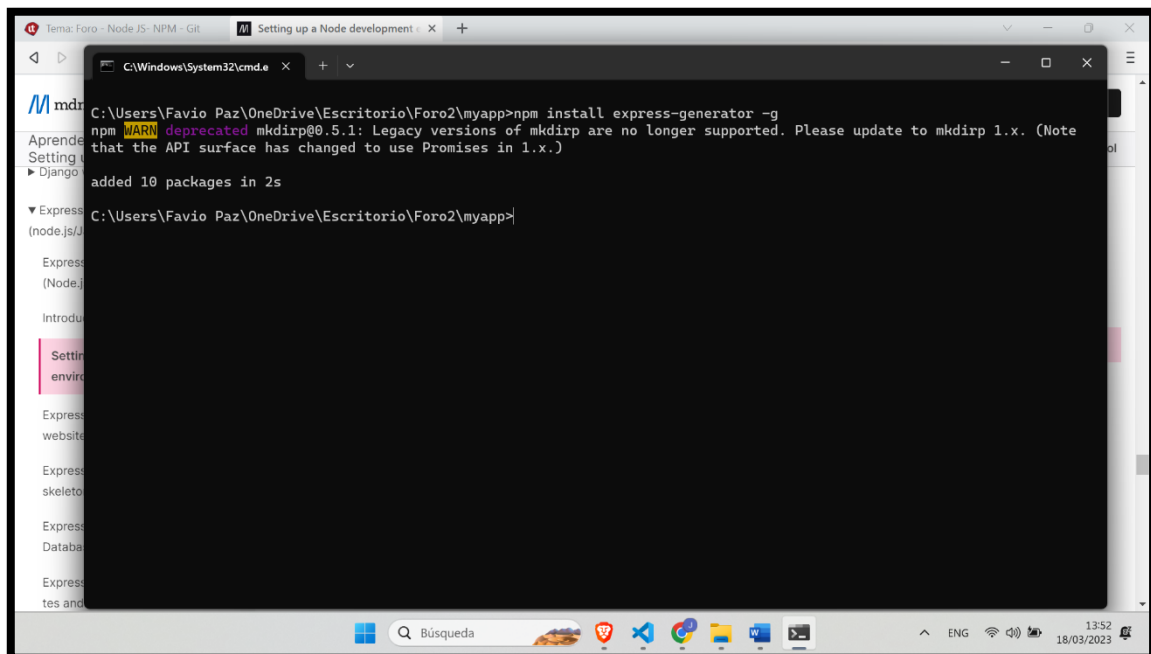


La siguiente entrada se agregaría al paquete.json de su aplicación:



```
1 const express = require('express')
2 const app = express()
3
4 app.get('/', (req, res) => {
5   res.send('Hello World!')
6 })
7
8 app.listen(8080, () => {
9   console.log('Example app listening on port 8080!')
10 })
11
12 "devDependencies": {
13   "eslint": "^4.12.1"
14 }
15
16
```

Instalando Express Application Generator



```
C:\Windows\System32\cmd.exe
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>npm install express-generator -g
npm WARN deprecated mkdirp@0.5.1: Legacy versions of mkdirp are no longer supported. Please update to mkdirp 1.x. (Note that the API surface has changed to use Promises in 1.x.)
added 10 packages in 2s
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>
```

```
C:\WINDOWS\system32\cmd x + v

C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp>express helloworld

warning: the default view engine will not be jade in future releases
warning: use '--view=jade' or '--help' for additional options

create : helloworld\
create : helloworld\public\
create : helloworld\public\javascripts\
create : helloworld\public\images\
create : helloworld\public\stylesheets\
create : helloworld\public\stylesheets\style.css
create : helloworld\routes\
create : helloworld\routes\index.js
create : helloworld\routes\users.js
create : helloworld\views\
create : helloworld\views\error.jade
create : helloworld\views\index.jade
create : helloworld\views\layout.jade
create : helloworld\app.js
create : helloworld\package.json
create : helloworld\bin\
create : helloworld\bin\www

change directory:
> cd helloworld

install dependencies:
> npm install

run the app:
```

```
C:\WINDOWS\system32\cmd x + v

C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\helloworld>npm install
npm WARN deprecated transformers@2.1.0: Deprecated, use jstransformer
npm WARN deprecated constantinople@3.0.2: Please update to at least constantinople 3.1.1
npm WARN deprecated jade@1.11.0: Jade has been renamed to pug, please install the latest version of pug instead of jade
added 99 packages in 11s

1 package is looking for funding
  run 'npm fund' for details

C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\helloworld>
```



```
npm start
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\helloworld>npm install
npm WARN deprecated transformers@2.1.0: Deprecated, use jstransformer
npm WARN deprecated constantinople@3.0.2: Please update to at least constantinople 3.1.1
npm WARN deprecated jade@1.11.0: Jade has been renamed to pug, please install the latest version of pug instead of jade
added 99 packages in 11s
1 package is looking for funding
  run 'npm fund' for details
C:\Users\Favio Paz\OneDrive\Escritorio\Foro2\myapp\helloworld>SET DEBUG=helloworld:* & npm start
> helloworld@0.0.0 start
> node ./bin/www
helloworld:server Listening on port 3000 +0ms
GET / 200 552.704 ms - 170
GET /stylesheets/style.css 200 10.176 ms - 111
GET /favicon.ico 404 30.944 ms - 1432
```

