

Creación de backEnd.docx - Docs

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Instalar dependencias

- Escribir el siguiente comando
`npm install promise-mysql express nodemon morgan cors crypto-js jsonwebtoken validator concurrently dotenv body-parser validator morgan -D`
- Modificar el archivo package.json para agregar el script build

```
"scripts": {  
  "test": "echo \\\"Error: no test specified\\\" && exit 1",  
  "build": "tsc -w"  
};
```
- Ejecutar el comando
`npm run build` o a través Ctrl + shift + B
- Crear un archivo src/hello.ts

```
let message:string = "Hola Mundo";  
console.log(message);
```

package.json - backend_mysql - Visual Studio Code

```
{  
  "name": "backend_mysql",  
  "version": "1.0.0",  
  "description": "",  
  "main": "index.js",  
  "scripts": {  
    "test": "echo \\\"Error: no test specified\\\" && exit 1",  
    "build": "tsc -w"  
  },  
  "keywords": [],  
  "author": "",  
  "license": "ISC",  
  "devDependencies": {  
    "body-parser": "^1.20.2",  
    "concurrently": "^8.2.0",  
    "cors": "^2.8.5",  
    "crypto-js": "^4.1.1",  
    "dotenv": "^16.0.3",  
    "express": "^4.18.2",  
    "jsonwebtoken": "^9.0.0",  
    "morgan": "^1.10.0",  
    "mysql": "^2.18.1",  
    "nodemon": "^2.0.22",  
    "promise-mysql": "^3.1.0",  
    "validator": "^13.7.0",  
    "typescript": "^5.0.4"br/>  }  
}
```

TERMINAL

```
added 158 packages, and audited 159 packages in 35s  
  
19 packages are looking for funding  
  run `npm fund` for details  
  
3 moderate severity vulnerabilities  
  
To address all issues, run:  
  npm audit fix  
  
Run `npm audit` for details.  
PS C:\CLASEBARRON\backend_mysql>
```

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```
"scripts": {  
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- Ejecutar el comando
`npm run build` o a través Ctrl + shift + B
- Crear un archivo src/hello.ts

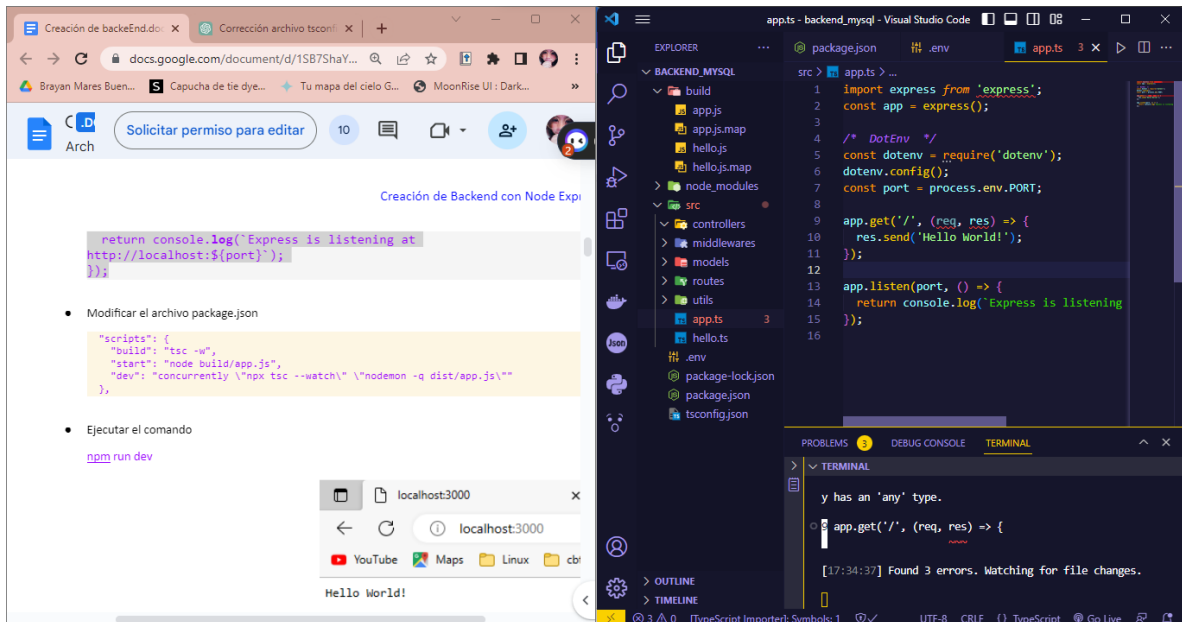
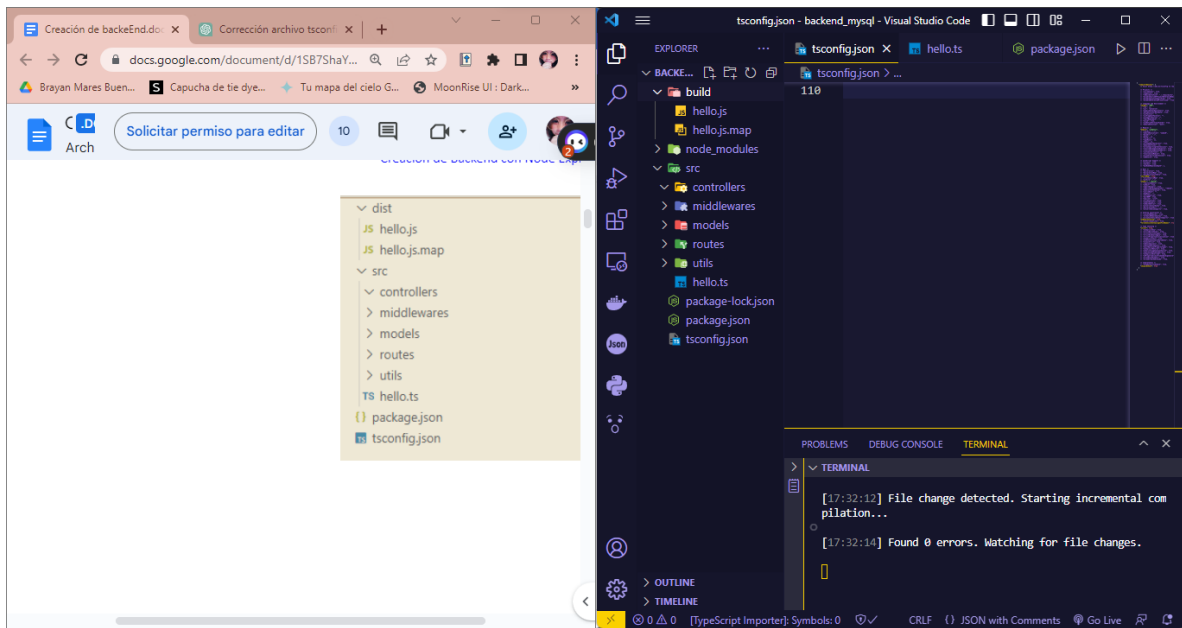
```
let message:string = "Hola Mundo";  
console.log(message);
```

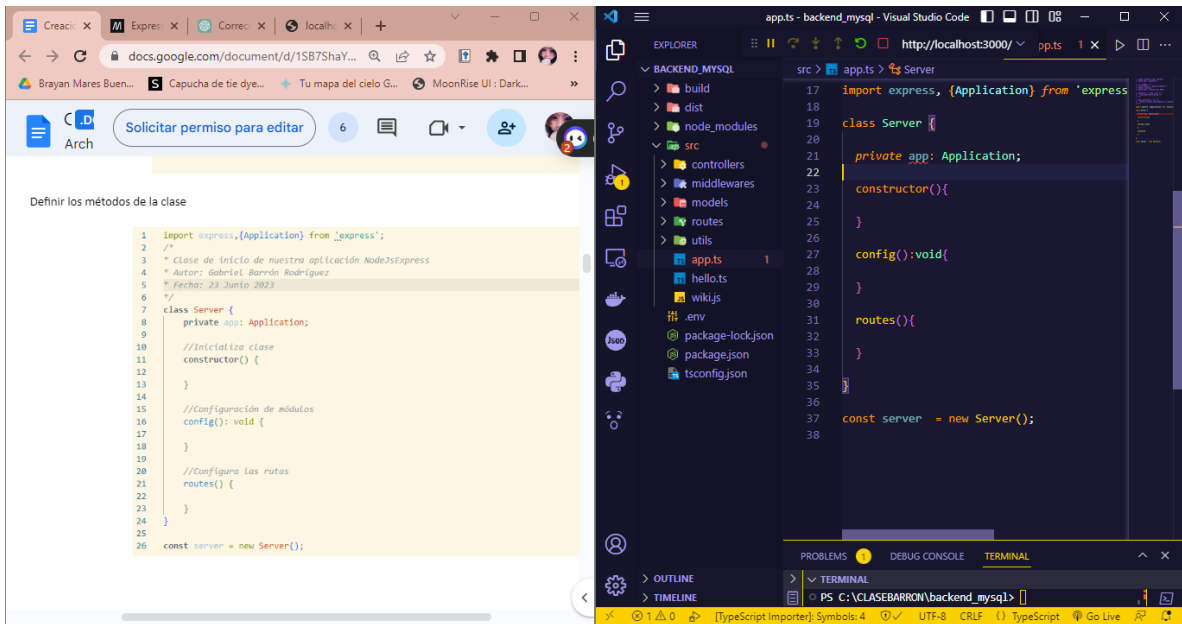
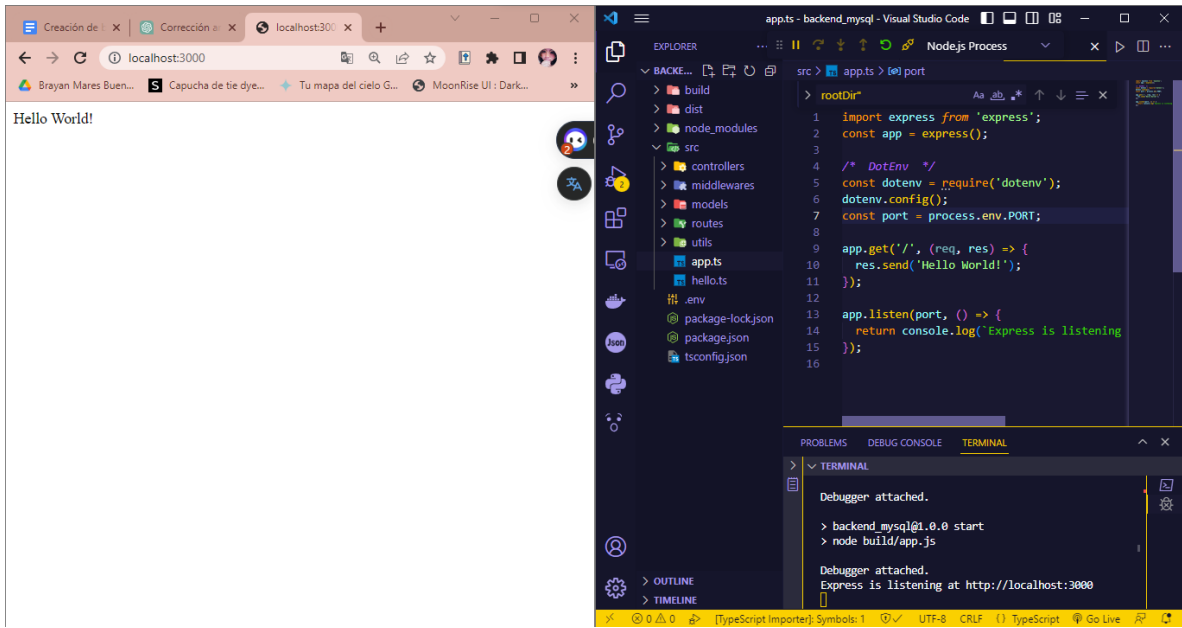
hello.ts - backend_mysql - Visual Studio Code

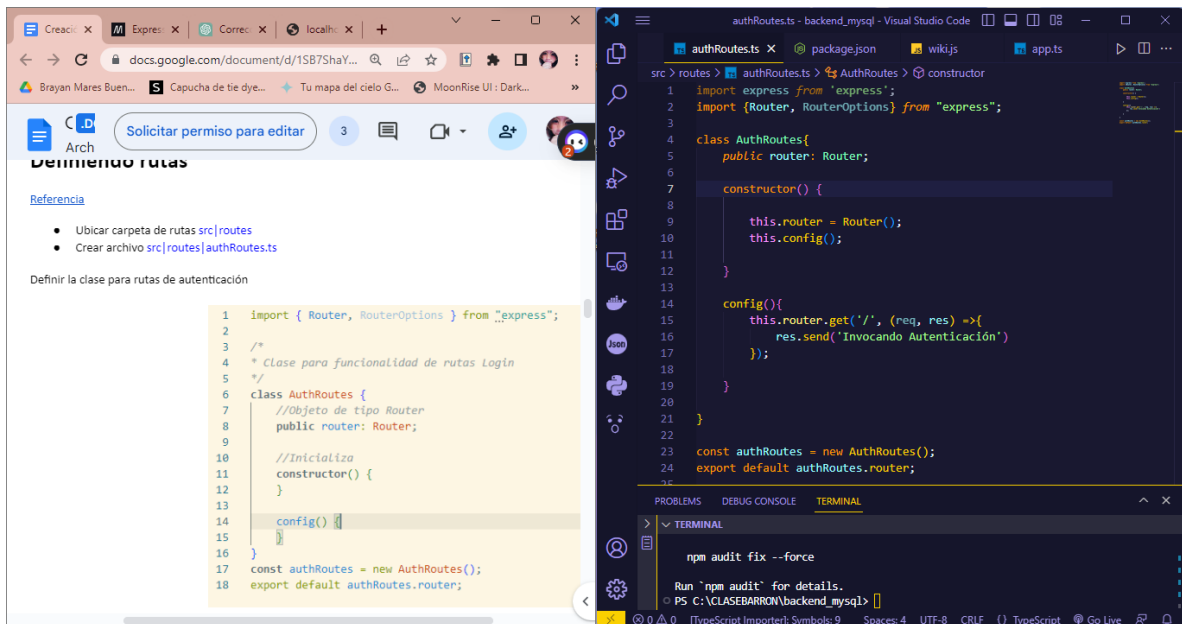
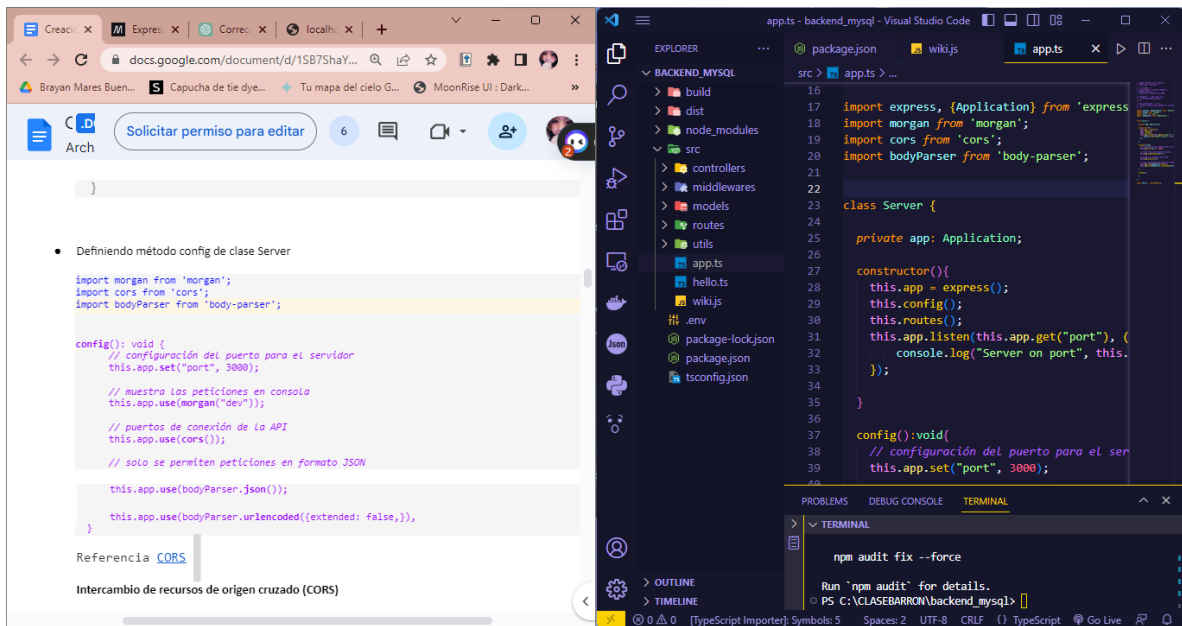
```
1 let message:string = "Hola Mundo";  
2 console.log(message);
```

TERMINAL

```
error TS18003: No inputs were found in config file 'C:\CLASEBARRON\backend_mysql\tscconfig.json'. Specified 'include' paths were '["**/*"]' and 'exclude' paths were '["./"]'.  
  
[17:25:10] Found 1 error. Watching for file changes.
```







Home Workspaces API Network Explore

GET http://localhost:3000

http://localhost:3000

GET http://localhost:3000

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Query Params

| KEY | VALUE |
|-----|-------|
| Key | Value |

Body Cookies Headers (8) Test Results

Pretty Raw Preview Visualize HTML

1 Invocando Autenticación

authRoutes.ts - backend_mysql - Visual Studio Code

```
1 import express from 'express';
2 import { Router, RouterOptions } from 'express';
3
4 class AuthRoutes {
5   public router: Router;
6
7   constructor() {
8     this.router = Router();
9     this.config();
10  }
11
12   config() {
13     this.router.get('/', (req, res) => {
14       res.send('Invocando Autenticación');
15     });
16   }
17
18   }
19
20   }
21
22   }
23
24   const authRoutes = new AuthRoutes();
25   export default authRoutes.router;
```

PROBLEMS DEBUG CONSOLE TERMINAL

```
[1] Server on port 3000
[1] DELETE / 404 5.877 ms - 142
[1] GET / 200 4.384 ms - 24
```

Home Workspaces API Network Explore

POST http://localhost:3000

http://localhost:3000

POST http://localhost:3000

Params Authorization Headers (8) Body Pre-request Script Tests Settings

Query Params

| KEY | VALUE |
|-----|-------|
| Key | Value |

Body Cookies Headers (8) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Autenticación correcta",
3   "username": "denis",
4   "password": "12345"
5 }
```

authController.ts - backend_mysql - Visual Studio Code

```
1 import { Request, Response } from 'express';
2
3 class AuthController {
4
5   async iniciarSesion(req: Request, res: Response) {
6     const { username, password } = req.body;
7     const user = await this.login(username, password);
8     if (user) {
9       res.json({ message: "Autenticación correcta", username, password });
10    }
11  }
12
13   private async login(username: string, password: string): Promise<boolean> {
14     // ...
15   }
16
17   private authController = new AuthController();
```

PROBLEMS DEBUG CONSOLE TERMINAL

```
[1] at processTicksAndRejections (node:internal/process/task_queues:83:21)
[1] POST / 200 1.069 ms - 77
```

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3

Arch

Configurar base de datos

Definir clave secreta en archivo .env

```
PORT = 3000
```

```
SECRET= ')(/%%$webintegral$#&/%'
```

Crear una base de datos en MySQL llamada web_integral

Crear una tabla llamada tbl_usuario

| Atributo | Tipo de datos | Restricción |
|----------|---------------|-------------|
| Username | Varchar(30) | Primary Key |
| Password | Varchar(250) | Not Null |
| role | Varchar(20) | Not Null |

Insertar el usuario de acuerdo a los siguientes datos

env - backend_mysql - Visual Studio Code

EXPLORER

authRoutes.ts

authController.ts

.env

1 PORT = 3000

2

3 SECRET= ')(/%%\$webintegral\$#&/%'

PROBLEMS

DEBUG CONSOLE

TERMINAL

[1] at processTicksAndRejections (node:internal/proce

ss/task_queues:83:21)

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Configurar base de datos

Definir clave secreta en archivo .env

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```
SECRET= ')(/%%$webintegral$#&/%'
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Crear una base de datos en MySQL llamada web_integral

Crear una tabla llamada tbl_usuario

| Atributo | Tipo de datos | Restricción |
|----------|---------------|-------------|
| Username | Varchar(30) | Primary Key |
| Password | Varchar(250) | Not Null |
| role | Varchar(20) | Not Null |

Insertar el usuario de acuerdo a los siguientes datos

MySQL Client (MariaDB 10.11)

+-----+

1 row in set (0.015 sec)

MariaDB [webintegral]> describe usuario;

+-----+

| Field | Type | Null | Key | Default | Extra |

+-----+

| id | int(11) | NO | PRI | NULL | auto_increment |

| username | varchar(30) | YES | | NULL | |

| password | varchar(250) | YES | | NULL | |

| name | varchar(80) | YES | | NULL | |

+-----+

4 rows in set (0.009 sec)

MariaDB [webintegral]> drop usuario;

ERROR 1064 (42000): You have an error in your SQL syntax; check the manu

al that corresponds to your MariaDB server version for the right syntax

to use near 'usuario' at line 1

MariaDB [webintegral]> drop table usuario;

Query OK, 0 rows affected (0.077 sec)

MariaDB [webintegral]> CREATE TABLE usuario (

-> Username VARCHAR(30) PRIMARY KEY,

-> Password VARCHAR(250) NOT NULL,

-> Role VARCHAR(20) NOT NULL

->);

Query OK, 0 rows affected (0.012 sec)

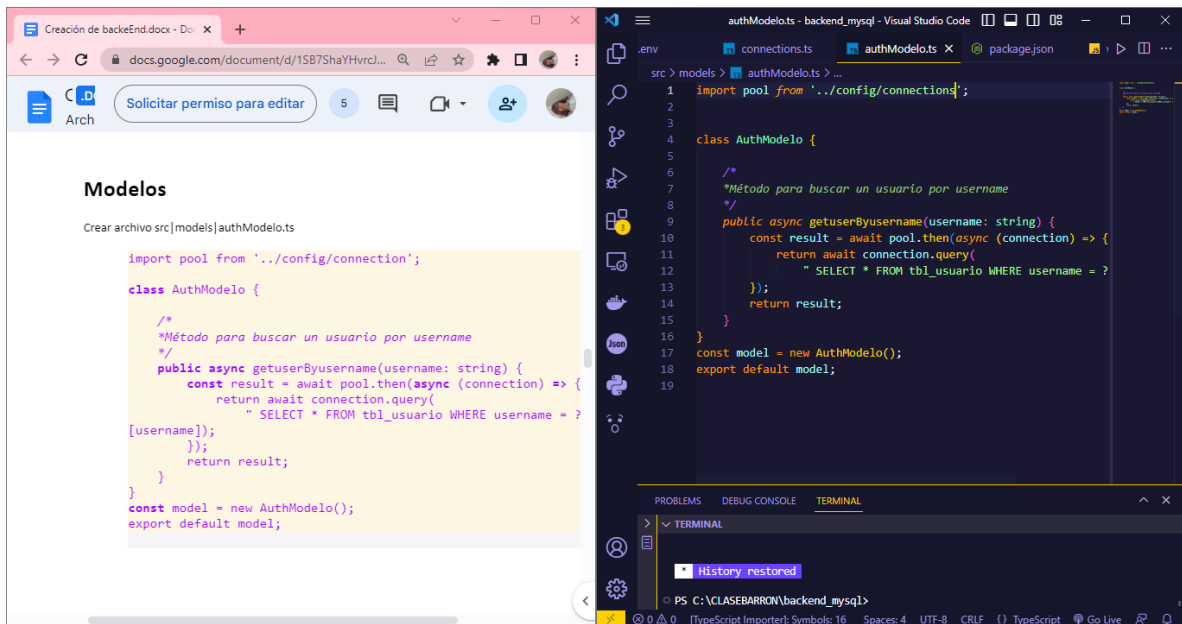
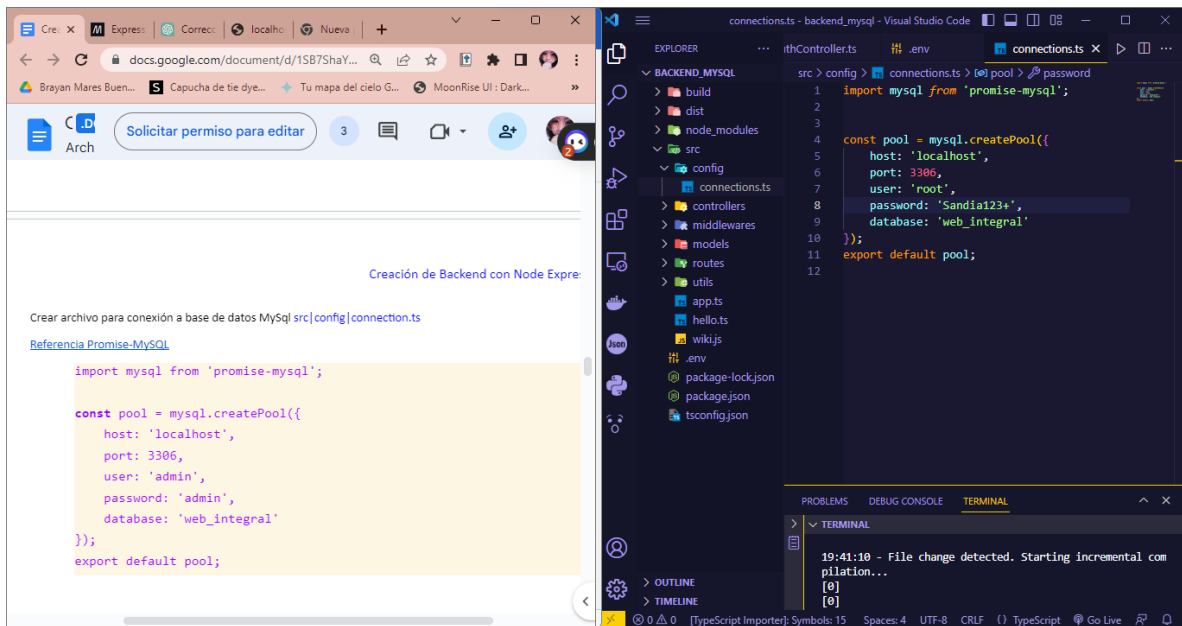
MariaDB [webintegral]>

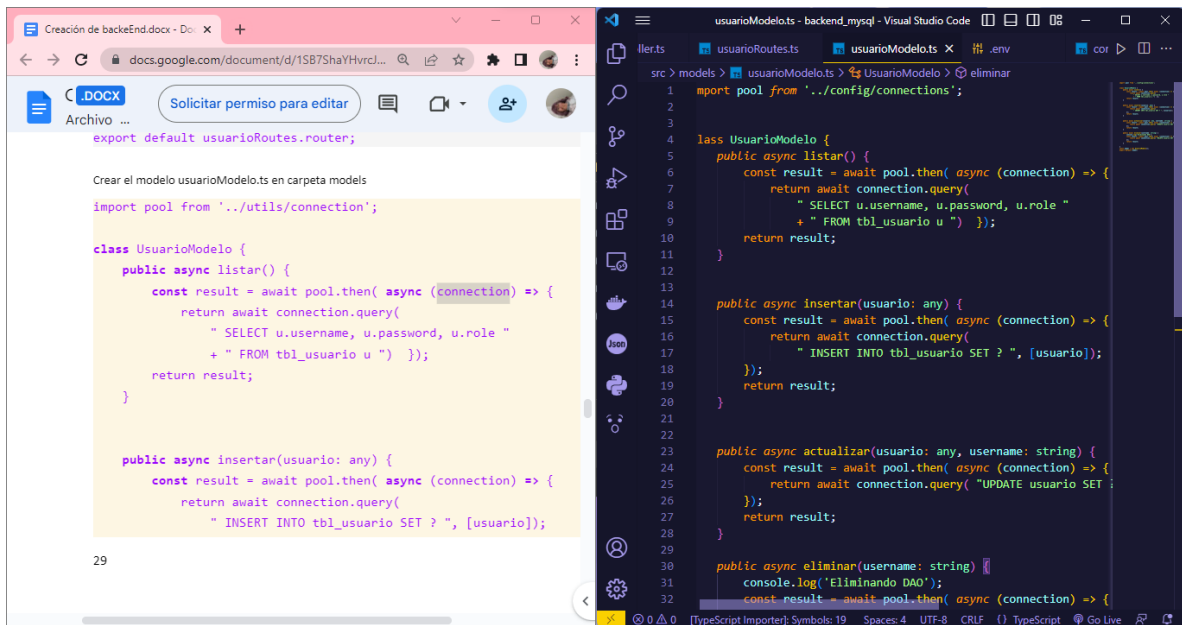
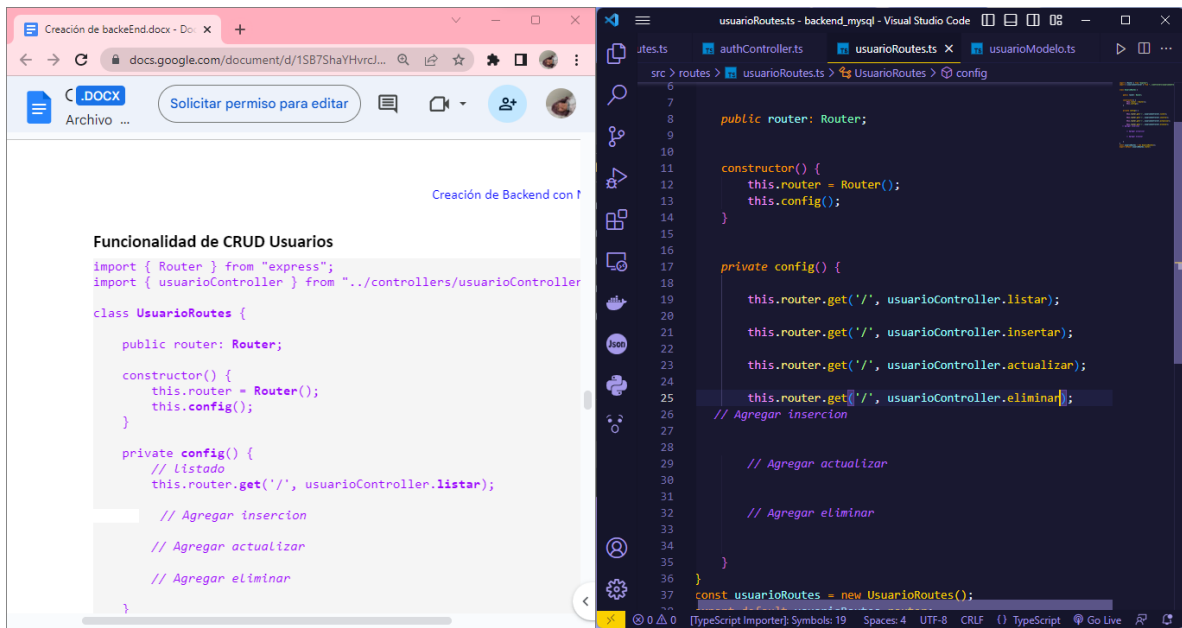
MariaDB [webintegral]> INSERT INTO usuario (Username, Password, Role)

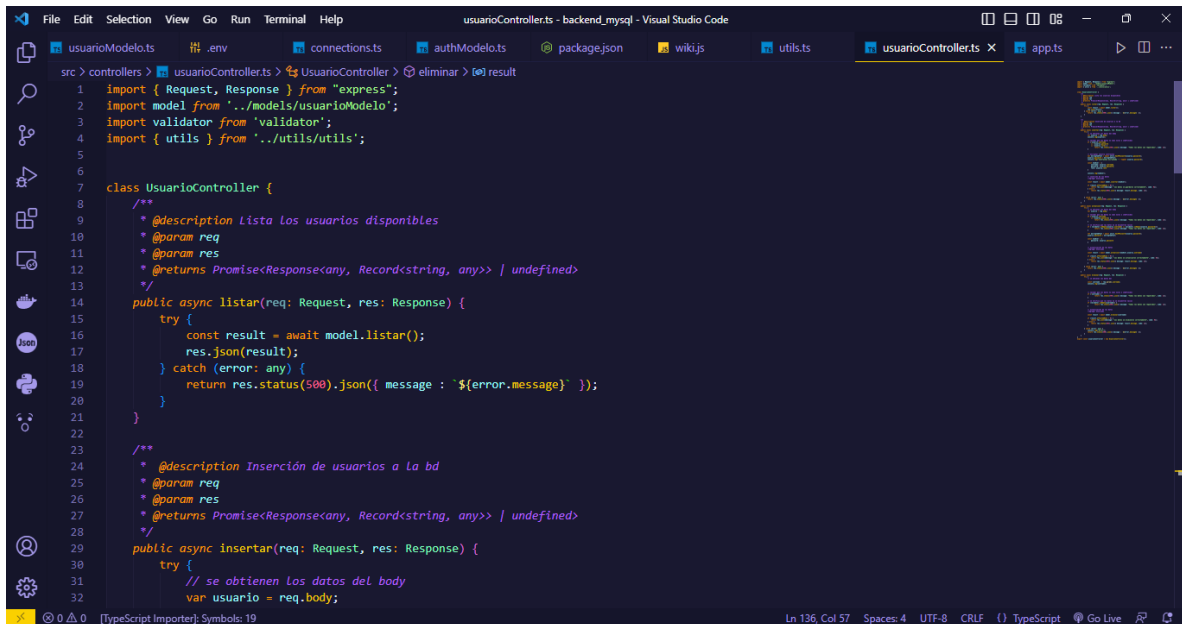
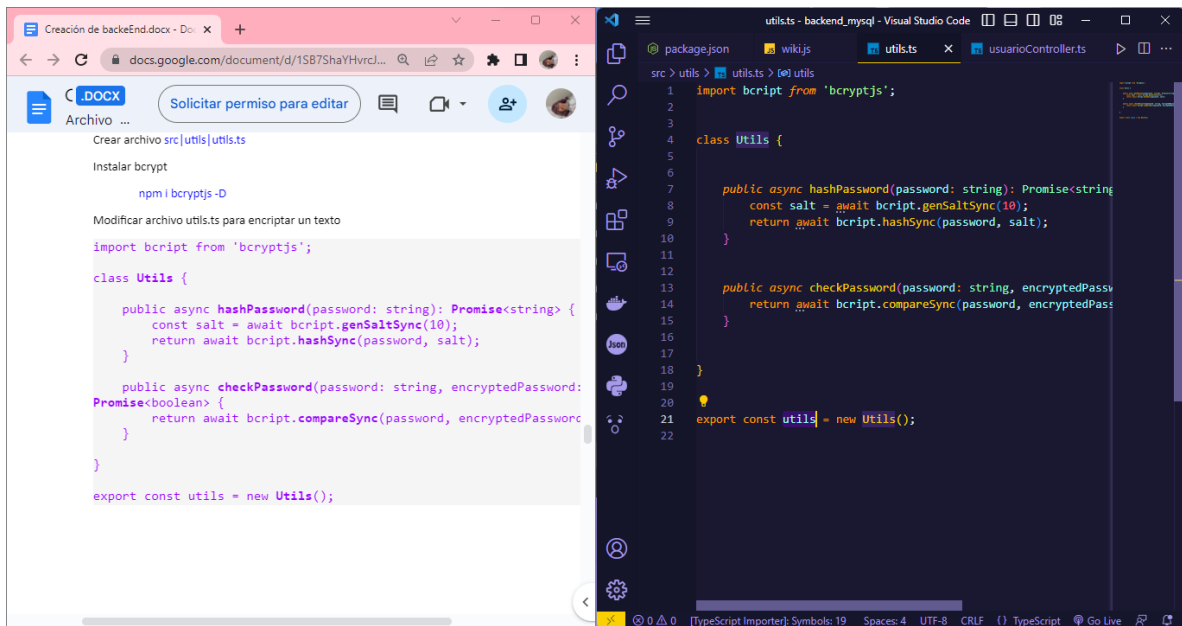
-> VALUES ('progra01', '12345', 'admin');

Query OK, 1 row affected (0.018 sec)

MariaDB [webintegral]> |







```
File Edit Selection View Go Run Terminal Help
usuarioController.ts - backend_mysql - Visual Studio Code

src > controllers > usuarioControllers > UsuarioController > listar

25  * @param req
26  * @param res
27  * @returns Promise<Responseany, Record<string, any>> | undefined>
28  */
29  public async insertar(req: Request, res: Response) {
30      try {
31          // se obtienen los datos del body
32          var usuario = req.body;
33          console.log(usuario);
34
35          // validar que los datos no sean nulos o indefinidos
36          if (!usuario.username
37              || !usuario.password
38              || !usuario.role) {
39              return res.status(404).json({ message: "Todos los datos son requeridos", code: 1});
40          }
41
42          // encriptar nuestra contraseña
43          var encryptedText = await utils.hashPassword(usuario.password);
44          usuario.password = encryptedText;
45          console.log("Contraseña encriptada " + typeof usuario.password);
46
47          const newUser = {
48              username: usuario.username,
49              password: usuario.password,
50              role: usuario.role
51          }
52
53          console.log(newUser);
54
55          // inserción de los datos
56
```

Home Workspaces API Network Explore Search Postman

POST http://localhost:3000/ + *** No Environment

http://localhost:3000/usuario/ Save

POST http://localhost:3000/usuario/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1  {
2    "username": "denis",
3    "password": "12345",
4    "role": "Admin"
5  }
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 17 ms Size: 437 B Save Response

Pretty Raw Preview Visualize JSON

```
1  {
2    "username": "denis",
3    "password": "$2a$10$/vzKM121o2ptGXG18SAme/DhSEhQ7SRZVJd0zW4CwT/THf/Q8cnu",
4    "role": "Admin"
5  },
6  {
7    "username": "usariox",
8    "password": "12345"
9  }
```

Online Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

Home Workspaces API Network Explore Search Postman Invite Upgrade

GET http://localhost:3000/usuario/ No Environment

Save

GET http://localhost:3000/usuario/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "username": "denis",
3   ... "password": "12345",
4   ... "role": "Admin"
5 }
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 19 ms Size: 437 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "username": "denis",
3   "password": "$2a$10$h/vzKwL2io2ptGXG10SAme/DhSEhQ7SRZV3d0zW4CwT/ThF/Q8cnu",
4   "role": "Admin"
5 },
6 {
7   "username": "usuariox",
8   "password": "xxxxxx"
9 }
```

Online Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

Home Workspaces API Network Explore Search Postman Invite Upgrade

PUT http://localhost:3000/usuario/ No Environment

Save

PUT http://localhost:3000/usuario/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "username": "denis12",
3   ... "password": "12345",
4   ... "role": "Admin"
5 }
```

Body Cookies Headers (8) Test Results Status: 404 Not Found Time: 113 ms Size: 338 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "(Rows matched: 0 Changed: 0 Warnings: 0)",
3   "code": 1
4 }
```

Online Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

Home Workspaces API Network Explore Search Postman Invite Upgrade

DEL http://localhost:3000/usuario/ No Environment Save

DELETE http://localhost:3000/usuario/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "username": "denis12",
3   ... "password": "12345",
4   ... "role": "Admin"
5 }
```

Body Cookies Headers (8) Test Results Status: 404 Not Found Time: 7 ms Size: 327 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Todos los datos son requeridos",
3   "code": 1
4 }
```

Online Find and Replace Console Cookies Capture requests Bootcamp Runner Trash

Home Workspaces API Network Explore Search Postman Invite Upgrade

POST http://localhost:3000/ No Environment Save

POST http://localhost:3000/ Send

Params Authorization Headers (8) Body Pre-request Script Tests Settings Cookies Beautify

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   ... "username": "denis",
3   ... "password": "12345",
4   ... "role": "Admin"
5 }
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 13 ms Size: 315 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Autenticación correcta",
3   "code": 0
4 }
```

Online Find and Replace Console Cookies Capture requests Bootcamp Runner Trash