

Desarrollo Web Integral

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Instrumento de evaluación ordinaria

DOCENTE:

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Se prueba que corra correctamente en el puerto 3000 a travez de un archivo que solo imprima el hola mundo

```
usuarioModelo.ts x hello.ts x utils.ts authRoutes.ts ...
backend_mysql > src > TS hello.ts > ...
1 let message:string = "Hola Mundo";
2 console.Log(message)
```

Se declaran las rutas

```
File Edit Selection View Go Run ... authRoutes.ts - Preactica 5 - Visual Studio Code
usuarioModelo.ts TS hello.ts TS utils.ts TS authRoutes.ts x .env TS connection.ts tsconfig ...
backend_mysql > src > routes > TS authRoutes.ts > AuthRoutes > config
1 import {Router, RouterOptions} from "express";
2 import { authController } from "../controllers/authController";
3
4 //Clase para la funcionalidad de rutas de login
5 class AuthRoutes{
6     //Objeto del tipo routes
7     public router: Router;
8
9     //inicializa
10    constructor(){
11        this.router = Router();
12        this.config();
13    }
14
PROBLEMS OUTPUT AZURE DEBUG CONSOLE COMMENTS TERMINAL powershell - backend_mysql
[0]
[0] 13:17:02 - Found 0 errors. Watching for file changes.
[1] Server on port 3000
```

Se conecta a el localhost con la autenticación

UNIDAD 3

Overview GET http://localhost:3000 No Environment

http://localhost:3000 Save

GET http://localhost:3000 Send

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

Headers 6 hidden

KEY	VALUE	DESCRIPTION	...	Bulk Edit	Presets
Key	Value	Description			

Body Cookies Headers (8) Test Results Status: 200 OK Time: 79 ms Size: 284 B Save Response

Pretty Raw Preview Visualize HTML

```
1 Invocando autenticación
```

Se coloca el metodo POST

Overview POST http://localhost:3000 No Environment

http://localhost:3000 Save

POST http://localhost:3000 Send

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

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

```
1 {
2   "username": "Fatima"
3   "Password": "12345"
4 }
```

Body Cookies Headers (8) Test Results Status: 200 OK Time: 93 ms Size: 306 B Save Response

Pretty Raw Preview Visualize JSON

```
1 {
2   "message": "Autenticación correcta"
3 }
```

Se crea la tabla en la base de datos

UNIDAD 3

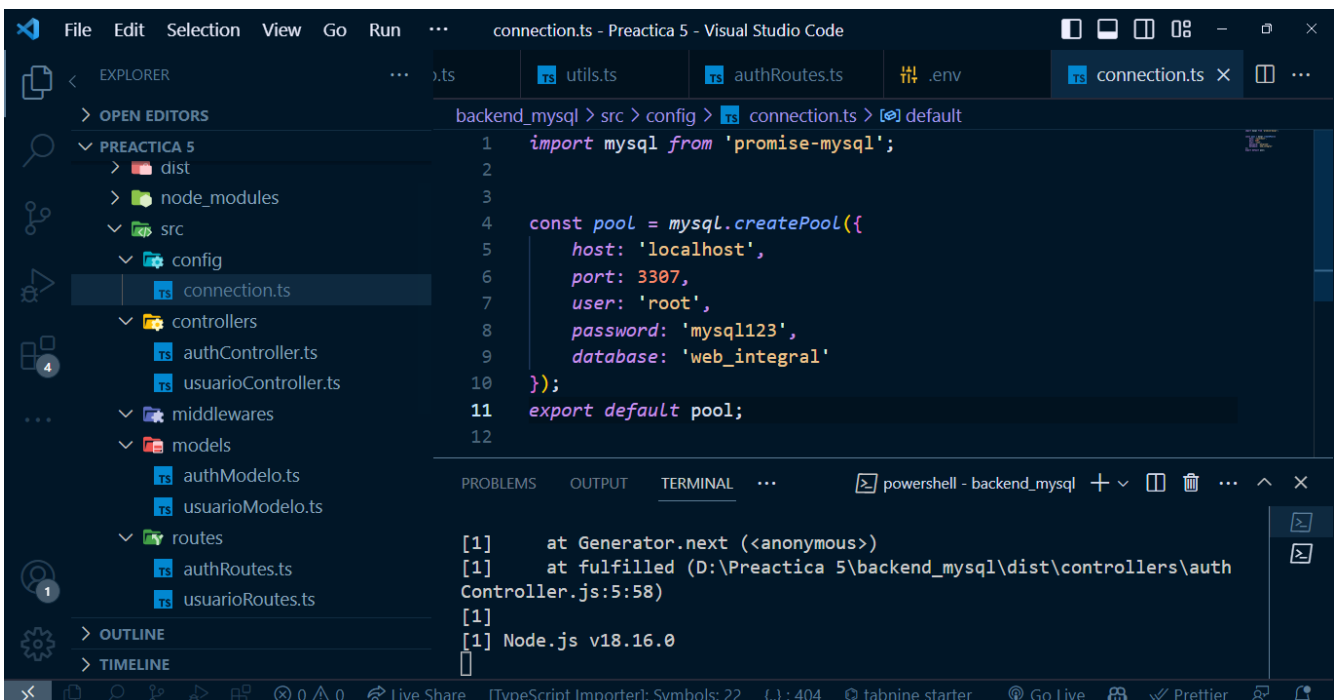
```
MySQL Client (MariaDB 10.11)
->
->
-> ;
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> create table tbl_usuario;
ERROR 1046 (3D000): No database selected
MariaDB [(none)]> CREATE TABLE tbl_usuario (
->     Username VARCHAR(30) PRIMARY KEY,
->     Password VARCHAR(250) NOT NULL,
->     Role VARCHAR(20) NOT NULL
-> );
ERROR 2006 (HY000): Server has gone away
No connection. Trying to reconnect...
Connection id: 32
Current database: *** NONE ***

ERROR 1046 (3D000): No database selected
MariaDB [(none)]> use web_integral;
Database changed
MariaDB [web_integral]> CREATE TABLE tbl_usuario (
->     Username VARCHAR(30) PRIMARY KEY,
->     Password VARCHAR(250) NOT NULL,
->     Role VARCHAR(20) NOT NULL
-> );
Query OK, 0 rows affected (0.117 sec)

MariaDB [web_integral]> insert into tbl_usuario(username, password, role) values('progra01','123456','admin');
Query OK, 1 row affected (0.134 sec)

MariaDB [web_integral]>
```

Conexión con la base de datos

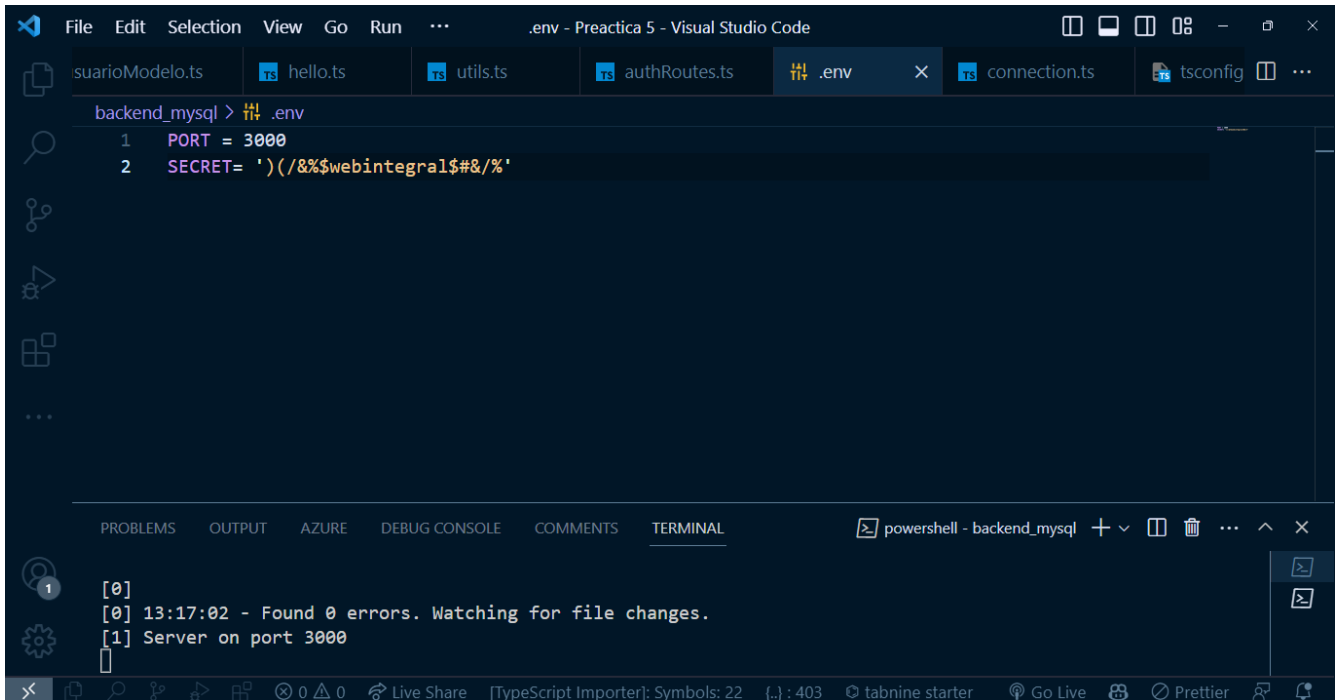


The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure. The file `connection.ts` is open in the editor. The code in `connection.ts` is as follows:

```
1 import mysql from 'promise-mysql';
2
3
4 const pool = mysql.createPool({
5     host: 'localhost',
6     port: 3307,
7     user: 'root',
8     password: 'mysql123',
9     database: 'web_integral'
10 });
11 export default pool;
12
```

The terminal at the bottom shows the output of the application, indicating that the database connection is successful and the application is running on Node.js v18.16.0.

UNIDAD 3



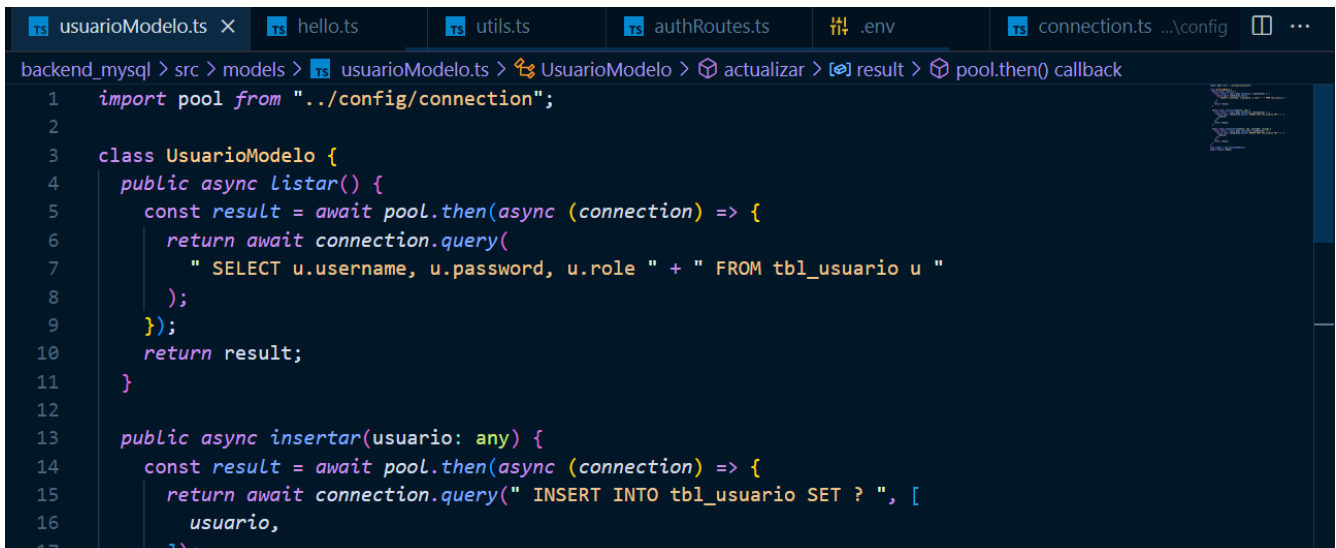
The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Opened to the `.env` file.
- File List:** Includes `usuarioModelo.ts`, `hello.ts`, `utils.ts`, `authRoutes.ts`, `.env`, `connection.ts`, and `tsconfig`.
- Editor:** Displays the `.env` file with the following content:

```
1 PORT = 3000
2 SECRET= ')(/%%$webintegral$#&/%'
```
- Terminal:** Shows the output of the `backend_mysql` command:

```
[0]
[0] 13:17:02 - Found 0 errors. Watching for file changes.
[1] Server on port 3000
```
- Bottom Bar:** Includes icons for Explorer, Search, Run and Debug, and a status bar showing "TypeScript Importer: Symbols: 22", "403", "tabnine starter", "Go Live", "Prettier", and a refresh icon.

Se agrega la clase usuario modelo



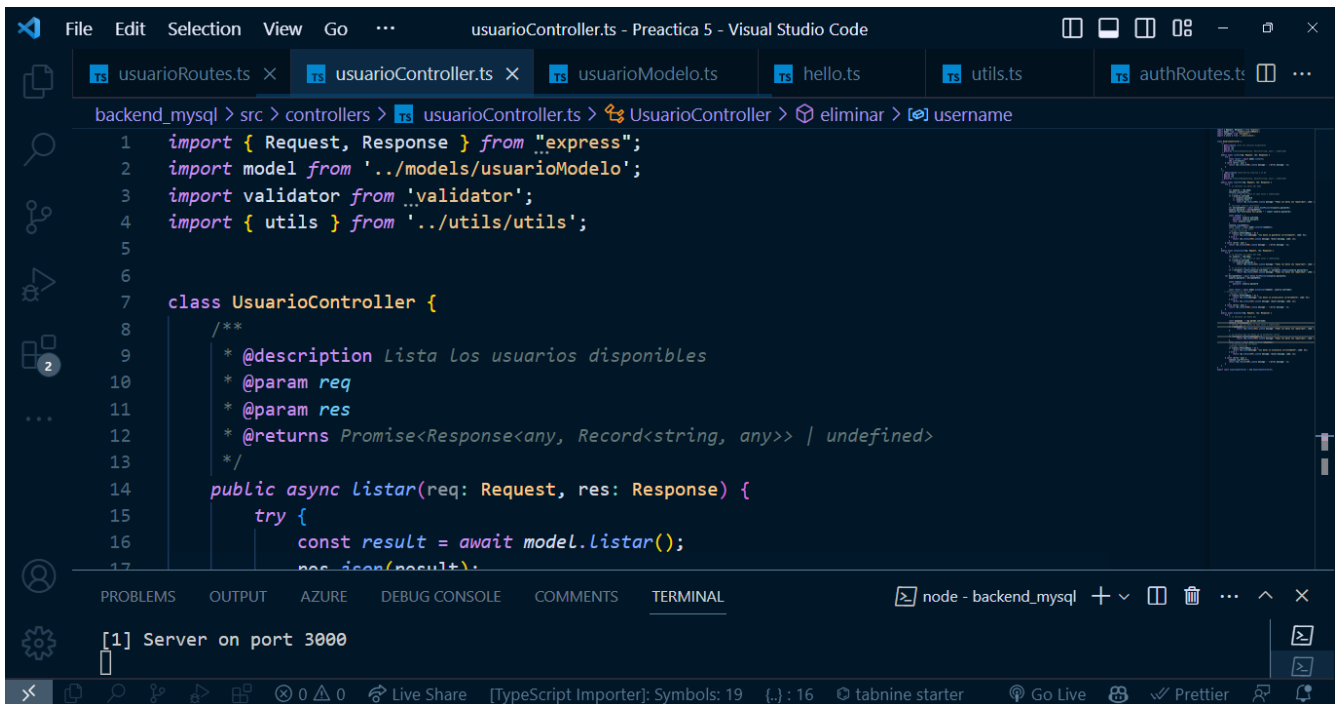
The screenshot shows the Visual Studio Code interface with the following details:

- File Explorer:** Opened to the `usuarioModelo.ts` file.
- File List:** Includes `usuarioModelo.ts`, `hello.ts`, `utils.ts`, `authRoutes.ts`, `.env`, `connection.ts`, and `tsconfig`.
- Editor:** Displays the `usuarioModelo.ts` file with the following content:

```
1 import pool from "../config/connection";
2
3 class UsuarioModelo {
4   public async listar() {
5     const result = await pool.then(async (connection) => {
6       return await connection.query(
7         " SELECT u.username, u.password, u.role " + " FROM tbl_usuario u "
8       );
9     });
10    return result;
11  }
12
13  public async insertar(usuario: any) {
14    const result = await pool.then(async (connection) => {
15      return await connection.query(" INSERT INTO tbl_usuario SET ? ", [
16        usuario,
17      ]);
18    });
19  }
20 }
```
- Bottom Bar:** Includes icons for Explorer, Search, Run and Debug, and a status bar showing "TypeScript Importer: Symbols: 22", "403", "tabnine starter", "Go Live", "Prettier", and a refresh icon.

A la par se crea el usuario controlador

UNIDAD 3



```
File Edit Selection View Go ... usuarioController.ts - Practica 5 - Visual Studio Code

usuarioRoutes.ts x usuarioController.ts x usuarioModelo.ts hello.ts utils.ts authRoutes.ts

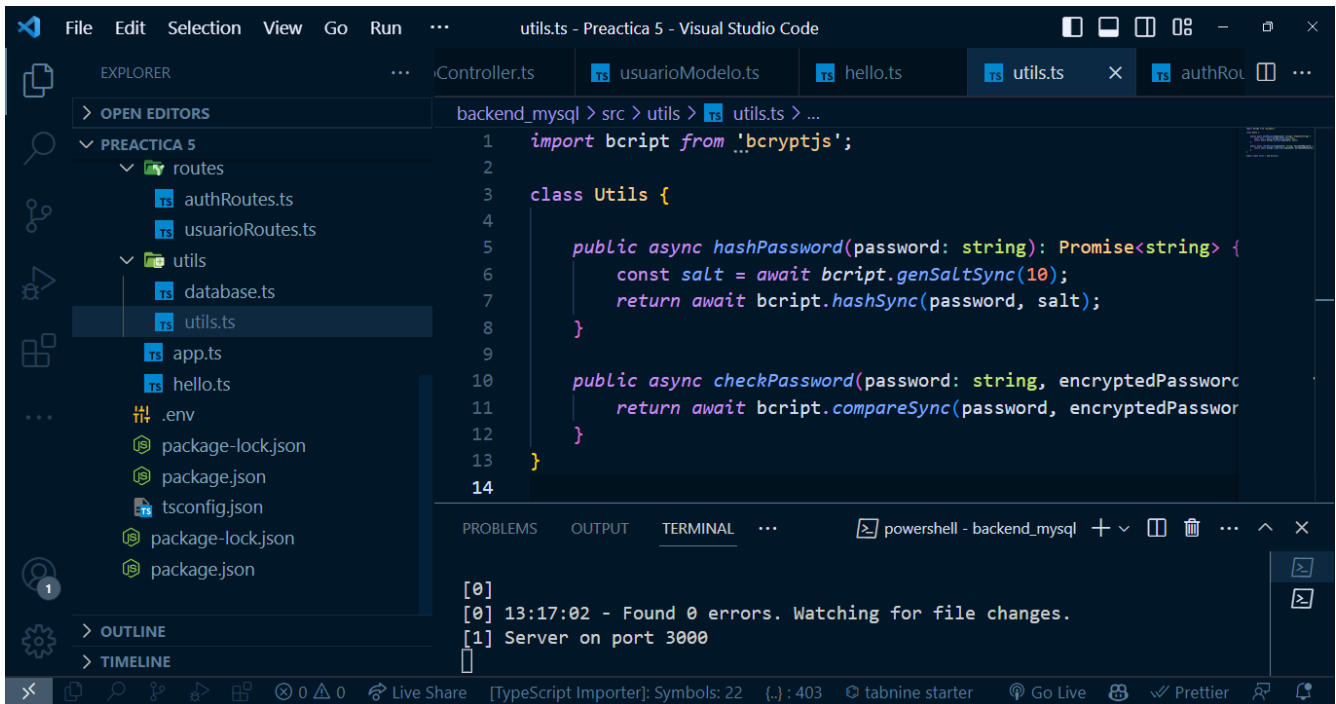
backend_mysql > src > controllers > usuarioController.ts > eliminar > username

1 import { Request, Response } from "express";
2 import model from '../models/usuarioModelo';
3 import validator from 'validator';
4 import { utils } from '../utils/utils';
5
6
7 class UsuarioController {
8     /**
9      * @description Lista los usuarios disponibles
10     * @param req
11     * @param res
12     * @returns Promise<Response<any, Record<string, any>> | undefined>
13     */
14     public async listar(req: Request, res: Response) {
15         try {
16             const result = await model.listar();
17             res.json(result);
18         } catch (error) {
19             res.status(500).json({ error: error.message });
20         }
21     }
22 }
23
24 export default UsuarioController;
```

PROBLEMS OUTPUT AZURE DEBUG CONSOLE COMMENTS TERMINAL

[1] Server on port 3000

node - backend_mysql + -



```
File Edit Selection View Go Run ... utils.ts - Practica 5 - Visual Studio Code

EXPLORER ... Controller.ts usuarioModelo.ts hello.ts utils.ts x authRoutes.ts

> OPEN EDITORS backend_mysql > src > utils > utils.ts > ...

PREACTICA 5
  routes
    authRoutes.ts
    usuarioRoutes.ts
  utils
    database.ts
    utils.ts
  app.ts
  hello.ts
  .env
  package-lock.json
  package.json
  tsconfig.json
  package-lock.json
  package.json

1 import bcrypt from 'bcryptjs';
2
3 class Utils {
4
5     public async hashPassword(password: string): Promise<string> {
6         const salt = await bcrypt.genSaltSync(10);
7         return await bcrypt.hashSync(password, salt);
8     }
9
10    public async checkPassword(password: string, encryptedPassword: string): Promise<boolean> {
11        return await bcrypt.compareSync(password, encryptedPassword);
12    }
13 }
14
```

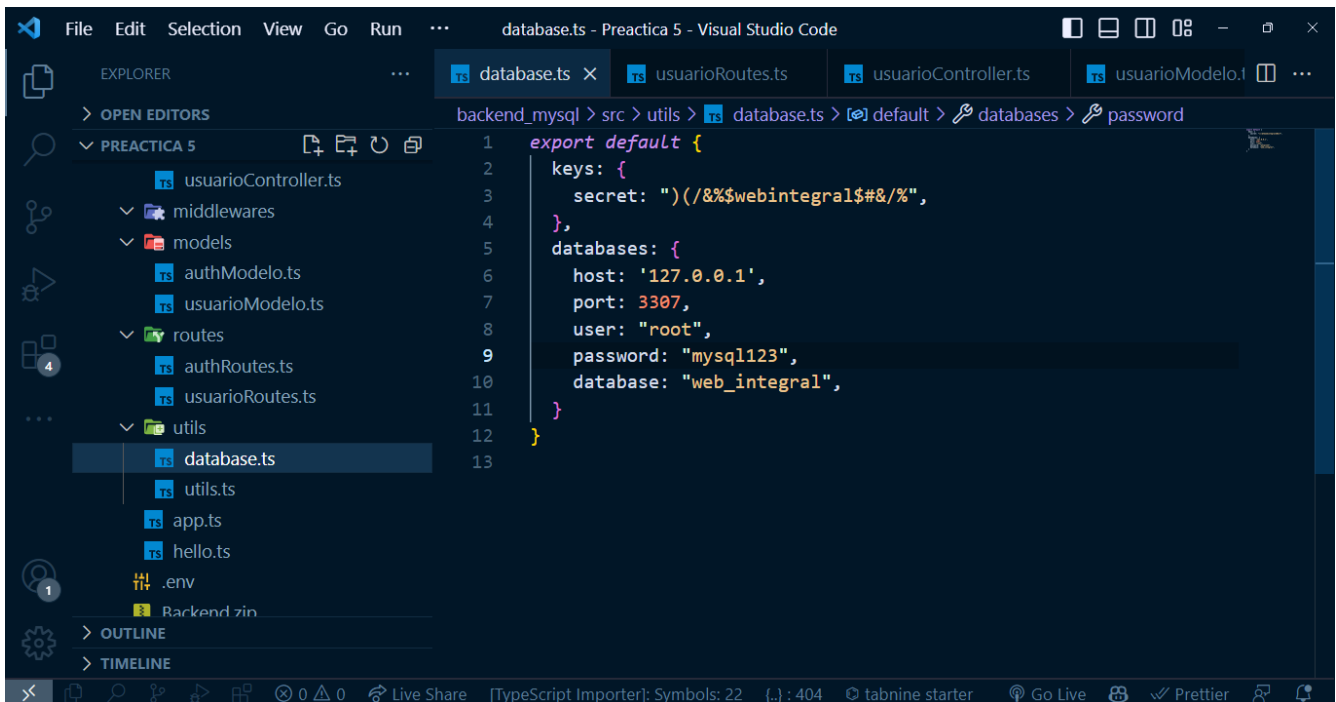
PROBLEMS OUTPUT TERMINAL ...

powershell - backend_mysql + -

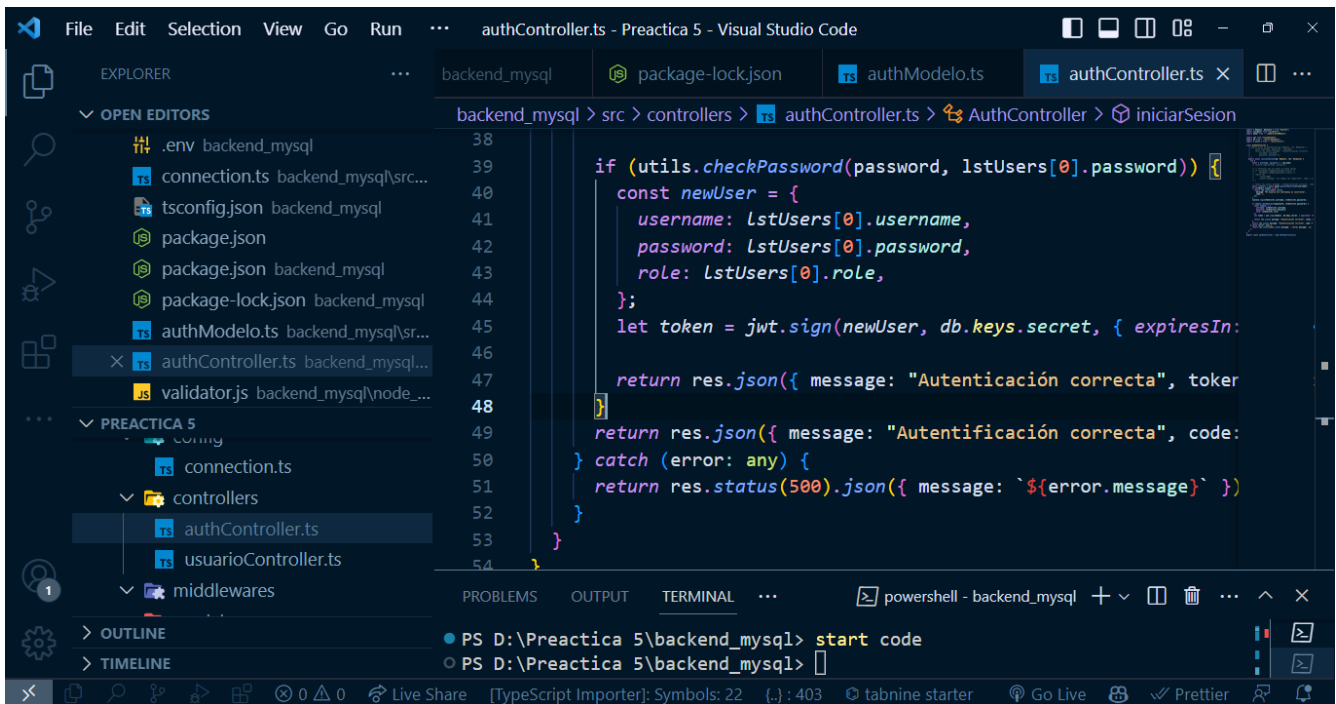
[0]
[0] 13:17:02 - Found 0 errors. Watching for file changes.
[1] Server on port 3000

powershell - backend_mysql + -

UNIDAD 3



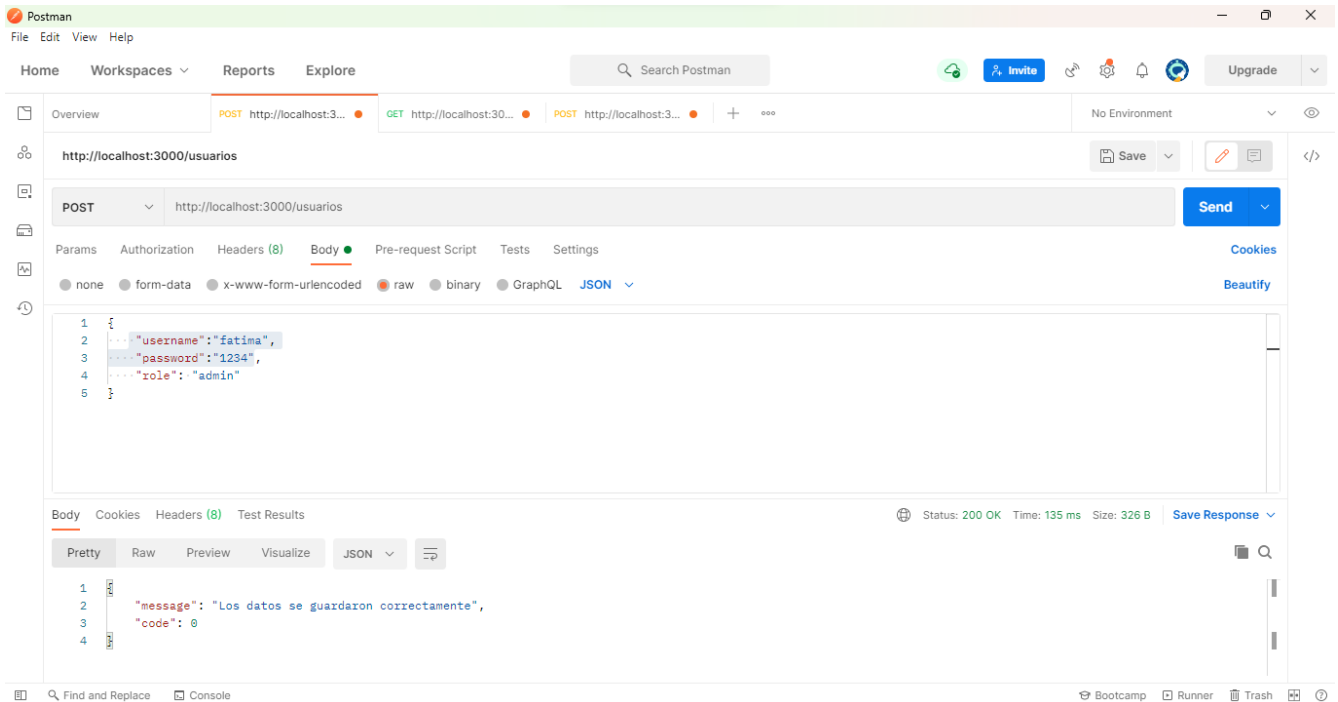
```
1 export default {
2   keys: {
3     secret: ")/&%$webintegral$#&/%",
4   },
5   databases: {
6     host: '127.0.0.1',
7     port: 3307,
8     user: "root",
9     password: "mysql123",
10    database: "web_integral",
11  }
12 }
13
```



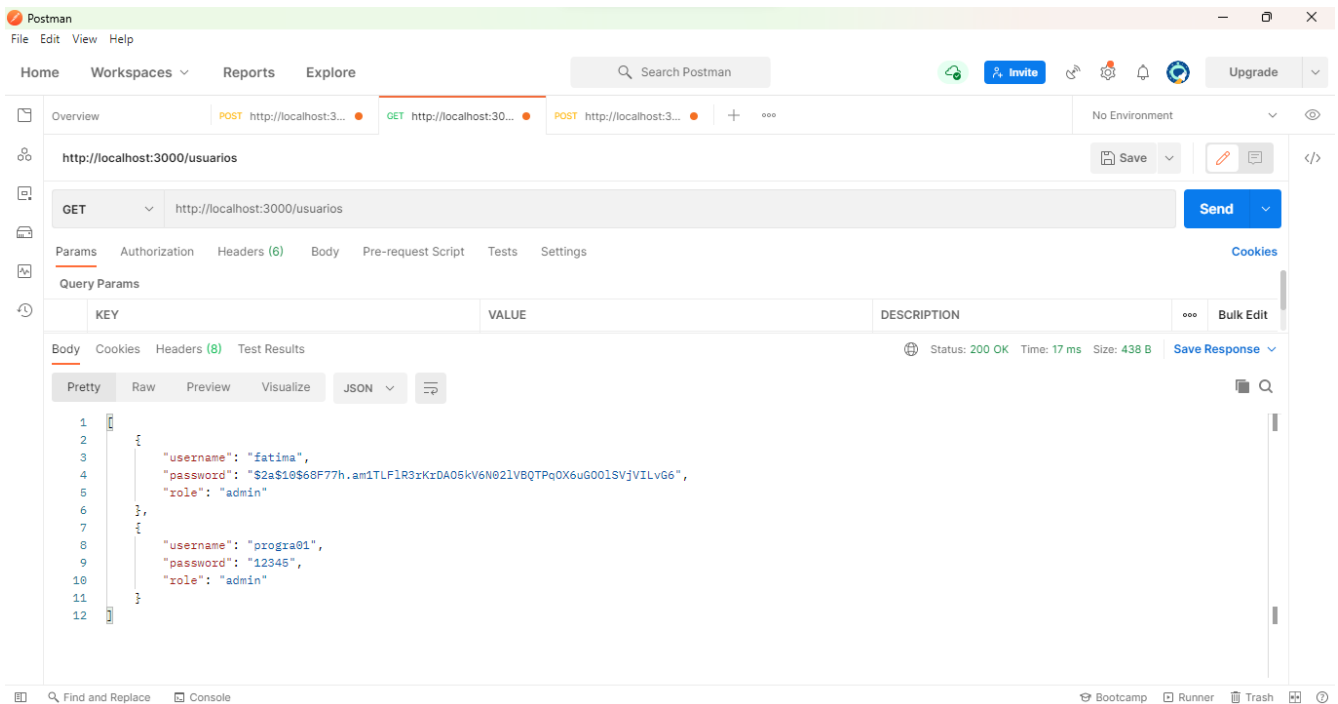
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```

Se crea un usuario por medio de postman para que encripte la contraseña

UNIDAD 3



Muestran las contraseñas encriptadas



Nos logeamos atraves de postman

UNIDAD 3

The screenshot displays the Postman interface with a POST request to `http://localhost:3000/` that has been executed successfully. The request body is a JSON object containing `username: "fatima"` and `password: "1234"`. The response body is a JSON object with `message: "Autenticación correcta"`, a long `token`, and `code: 0`. The status is 200 OK, and the response is displayed in a pretty-printed JSON format.

Request Details:

- Method: POST
- URL: `http://localhost:3000/`
- Body Type: raw (JSON)
- Body Content:

```
1 {
2   "username": "fatima",
3   "password": "1234"
4 }
```

Response Details:

- Status: 200 OK
- Time: 94 ms
- Size: 473 B
- Body Type: Pretty (JSON)
- Body Content:

```
1 {
2   "message": "Autenticación correcta",
3   "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyb2xlIjoieWV4IiwiaWF0IjE2MDg1MTQ0NjgsImV4cCI6MTY4MDUxODA2MH0.PBFG679q_X3IKIGFssEVwzAnwR0Y4BjKh1fxsMM1T5s",
4   "code": 0
5 }
```