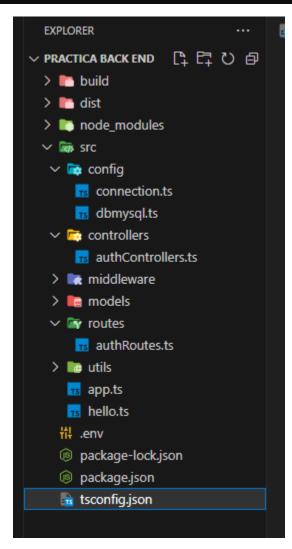
ACTIVIDAD BACK END

C:\Uzers\Administrador\Downloads\Nab Integral\PRACTICA BACE EMBOrms Install promise-mysql express modemon morgan cors crypto-js jsomwebtoken validator added 126 packages, and audited 127 packages in 18 il packages are looking for funding run "npm fund" for details found a vulnerabilities C:\Users\Administrador\Downloads\Neb Integral\PRACTICA BACE EMBO



```
tsconfig.json X nello.ts
                                                                                                                                                                               ts dbmysql.ts
                                                                                                                                                                                                                                                      package
                                  tsconfig.json > {} compilerOptions
                                                                        "compilerOptions": {
                                                                                "module": "commonjs",
                                                                                "esModuleInterop": true,
                                                                                "target": "es6",
                                                                                "moduleResolution": "node",
                                           6
                                                                                "sourceMap": true,
                                                                                "outDir": "dist"
                                                                       "lib": ["es2015"]
tsconfig.json
                                                                                                                                                dbmysql.ts
                                                                                                                                                                                                                                                                                                      针 .en
                                                                           hello.ts
                                                                                                                              ×
                                                                                                                                                                                                                        package.json
 src > 15 hello.ts > ...
                               let mensaje = " Hello World ;;;; Welcome !!!!";
                               console.log(mensaje)
                                                                                  src

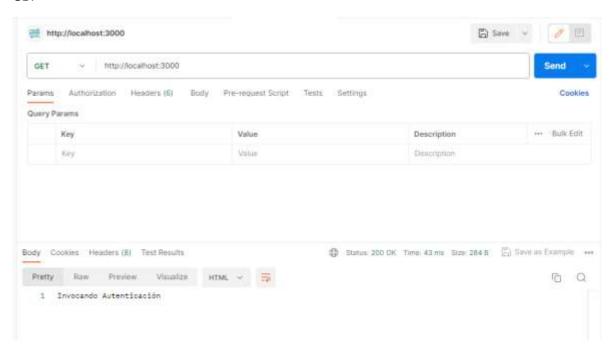
✓ Image: build a point of the build a point of
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         tsconfig.json
                                                                                    nello.ts
                                                                                                                                                                                                             ×
                                                                                                                                                                                                                                                                                                      (§) p
          build > Js hello.js
                     1
                                      "use strict";
                                        let mensaje = " Hello World ;;;; Welcome !!!!";
                                        console.log(mensaje);
```

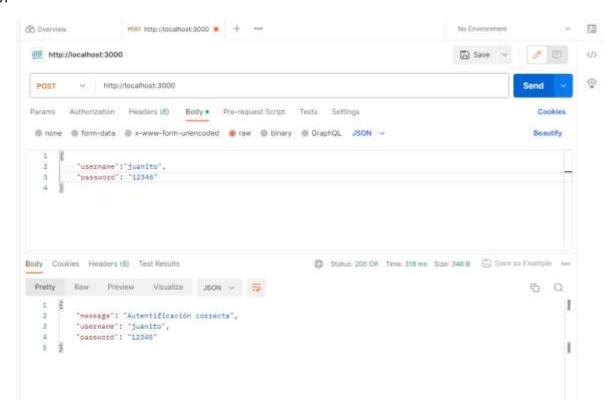
```
thenv

1 PORT = 3000
2
```

```
app.ts
                15 authControllers.ts
                                      authRoutes.ts
src > 15 app.ts > ...
       import express, {Application} from 'express';
       import morgan from _morgan';
       import cors from 'cors';
       import bodyParser from 'body-parser';
       import authRoutes from './routes/authRoutes'
       class Server{
           private app: Application;
           constructor() {
               this.app = express();
                this.config();
               this.routes();
               this.app.listen(this.app.get("port"), () => {
                 console.log("Server on port", this.app.get("port"));
             });
           config(): void {
                this.app.set("port", 3000);
                this.app.use(morgan("dev"));
                    DEBUG CONSOLE
                                   TERMINAL
 [0] 18:07:29 - Found 0 errors. Watching for file changes.
 [1] Server on port 3000
 [1] GET / 200 11.604 ms - 24
```

GET

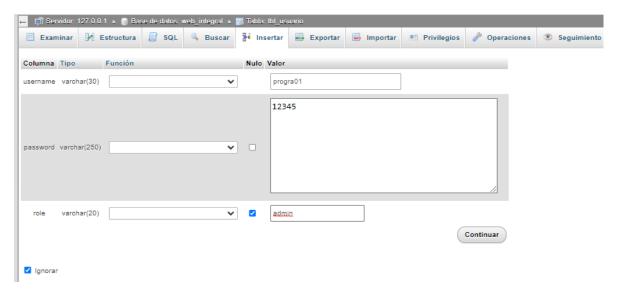




CONFIGURACION BASE DE DATOS

```
## .env

1     PORT = 3000
2
3     SECRET= ')(/&%$webintegral$#&/%'
```



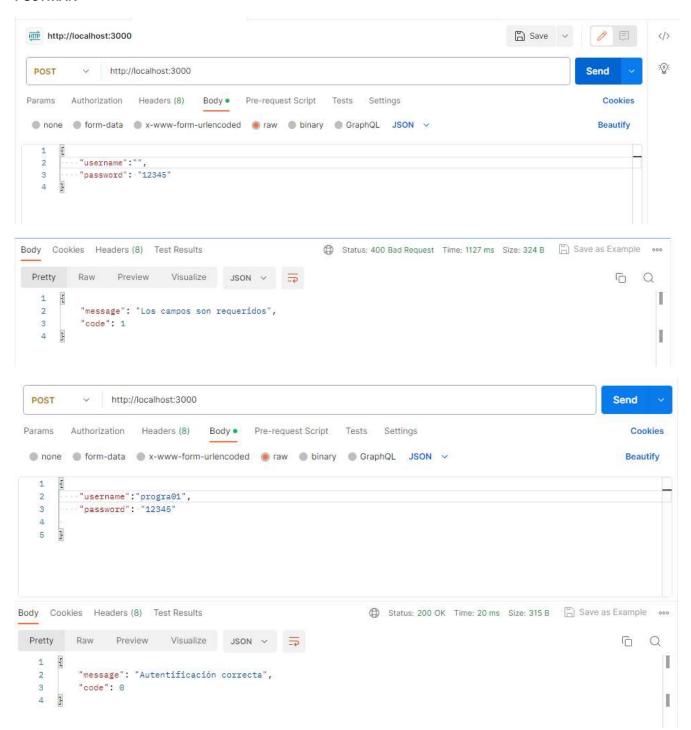
```
tt .env
               connection.ts X
                                  authModelo.ts
src > config > 15 connection.ts > ...
       // import mysql from 'promise-mysql';
       // import keys from './dbmysql';
       // const pool = mysql.createPool(keys.database);
       // export default pool;
  7
       import mysql from 'promise-mysql';
       const pool = mysql.createPool({
          host: 'localhost',
           port: 3306,
          user: 'admin',
           password: 'admin',
           database: 'web_integral'
       });
       export default pool;
```

```
src > models > math and an analysis and should be seen and a second be seen as a
```

CONTROLADOR

```
针 .env
                connection.ts
                                  authModelo.ts
                                                      authControllers.ts X
src > controllers > 15 authControllers.ts > 😭 AuthController > 😚 iniciarSesion
       import { Request, Response } from "express";
       import validator from "validator";
            * Método para validad Inicio de sesión
             * @param req Petición
            * @param res respuesta
            * @returns
           public async iniciarSesion(req: Request, res: Response) {
                try {
                   const {username, password }= req.body;
 18
                    if (validator.isEmpty(username.trim()) ||
                        validator.isEmpty(password.trim())) {
                    return res
                        .status(400)
                        .json({ message: "Los campos son requeridos", code: 1 });
```

POSTMAN



ACCEDIENDO A LOS DATOS

```
ttl .env
                                                             connection.ts
                                                                                                                                  3 authModelo.ts
                                                                                                                                                                                                              authControllers.ts X
  src > controllers > 

src > 

src > controllers > 

src >
                           import { Request, Response } from "express";
           import validator from "validator";
import model from "../models/authModelo";
                            class AuthController {
                               😯 * @param req Petición
                                  public async iniciarSesion(req: Request, res: Response) {
                                                  const { username, password } = req.body;
                                                   const lstUsers = await model.getuserByusername(username);
                                                   if (lstUsers.length <= 0) {</pre>
                                                                  .status(404)
                                                                 .json({
                                                                        message: "El usuario y/o contraseña es incorrecto",
    PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL
    Windows PowerShell
   Copyright (C) Microsoft Corporation. Todos los derechos reservados.
    PS C:\Users\Administrador\Downloads\Web Integral\PRACTICA BACK END> [
```

FUNCIONALIDAD CRUD USUARIOS

MODELO

```
usuarioRoutes.ts
                    usuarioModelo.ts X
                                         utils.ts
                                                         usuarioController.ts
src > models > 75 usuarioModelo.ts > 20 default
       import pool from '../config/connection';
       class UsuarioModelo {
           public async listar() {
               const result = await pool.then( async (connection) => {
                   return await connection.query(
                       " SELECT u.username, u.password, u.role "
                       + " FROM tbl_usuario u ") });
               return result;
           public async insertar(usuario: any) {
               const result = await pool.then( async (connection) => {
                   return await connection.query(
                       " INSERT INTO tbl_usuario SET ? ", [usuario]
               });
               return result;
           public async actualizar(usuario: any, username: string) {
               const result = await pool.then( async (connection) => {
                   return await connection.query(
                       "UPDATE tbl_usuario SET ? WHERE username = ?",
                       fusuario usernamel
```

```
public async actualizar(usuario: any, username: string) {
             const result = await pool.then( async (connection) => {
                 return await connection.query(
                     "UPDATE tbl_usuario SET ? WHERE username = ?",
                     [usuario, username]
             });
             return result;
34
         public async eliminar(username: string) {
             console.log('Eliminando DAO');
             const result = await pool.then( async (connection) => {
                 return await connection.query(
                     'DELETE FROM tbl_usuario WHERE username = ?', [username]
                 );
             });
             return result;
     const model = new UsuarioModelo();
     export default model;
```

ROUTES

```
usuarioRoutes.ts X usuarioModelo.ts
                                         TS utils.ts
                                                          usuarioController.ts
src > routes > 15 usuarioRoutes.ts > 43 UsuarioRoutes
       import { Router } from "express";
       import { usuarioController } from "../controllers/usuarioController";
       class UsuarioRoutes {
           public router: Router;
           constructor() {
               this.router = Router();
               this.config();
 15
           private config() {
               this.router.get('/', usuarioController.listar);
               this.router.post('/insert', usuarioController.insertar);
               this.router.put('/update/:username',usuarioController.actualizar);
               this.router.delete('/delete/:username',usuarioController.eliminar);
       const usuarioRoutes = new UsuarioRoutes();
       export default usuarioRoutes router:
```

ENCRIPTAMIENTO DE TEXTO

UTILS

```
utils > 15 utils.ts > 25 Utils
import bcript from '.bcryptjs';

class Utils {
    public async hashPassword(password: string): Promise<string> {
        const salt = await bcript.genSaltSync(10);
        return await bcript.hashSync(password, salt);
    }

    public async checkPassword(password: string, encryptedPassword: string): Promise<br/>boolean> {
        return await bcript.compareSync(password, encryptedPassword);
    }

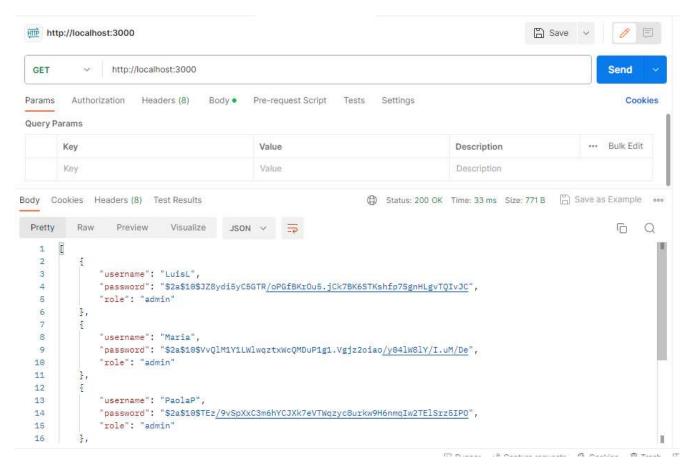
export const utils = new Utils();
```

CONTROLADOR

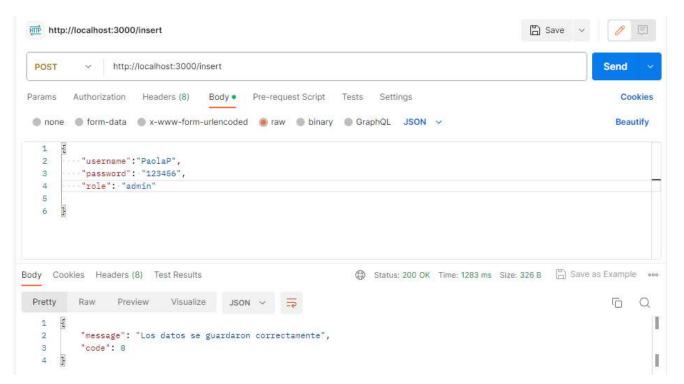
```
rc > controllers > 15 usuarioController.ts > ...
      import { Request, Response } from "express";
      import model from '../models/usuarioModelo';
      import validator from 'validator';
      import { utils } from '../utils/utils';
      class UsuarioController {
           * @description Lista los usuarios disponibles
           * @param req
           * @param res
           * @returns Promise<Response<any, Record<string, any>> | undefined>
          public async listar(req: Request, res: Response) {
              try {
                  const result = await model.listar();
                  res.json(result);
              } catch (error: any) {
                  return res.status(500).json({ message : `${error.message}` });
```

PRUEBAS POSTMAN

LISTAR

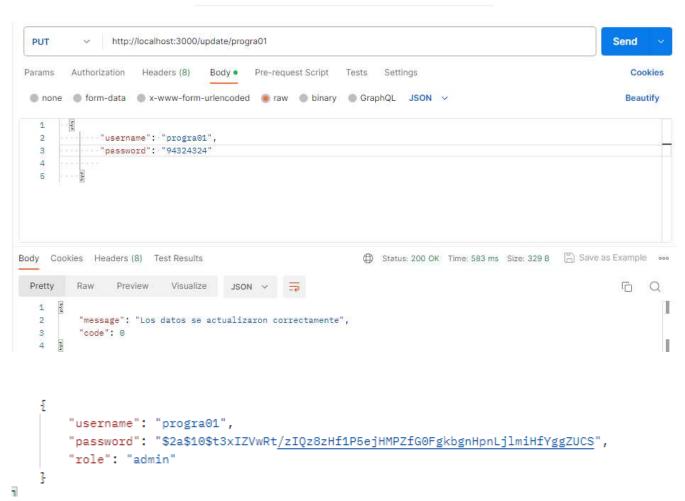


INSERTAR

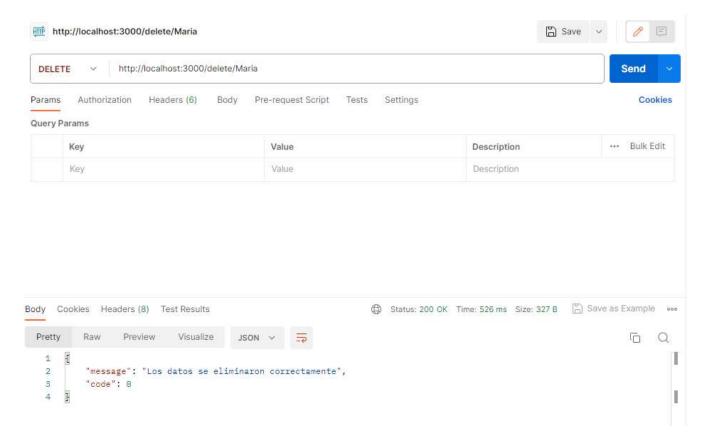


ACTUALIZAR

```
"username": "progra01",
    "password": "12345",
    "role": "admin"
}
```



ELIMINAR



JSON WEB TOKEN

