

BACKEND TIENDA DE MASCOTAS

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FACULTAD DE INGENIERIA DE SISTEMAS

ACTUALIZACIÓN EN NUEVAS TECNOLOGÍAS PARA EL DESARROLLO DE
SOFTWARE

PASTO -NARIÑO

2022

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PRESENTADO A: VICENTE AUX REVELO

FACULTAD DE INGENIERIA DE SISTEMAS

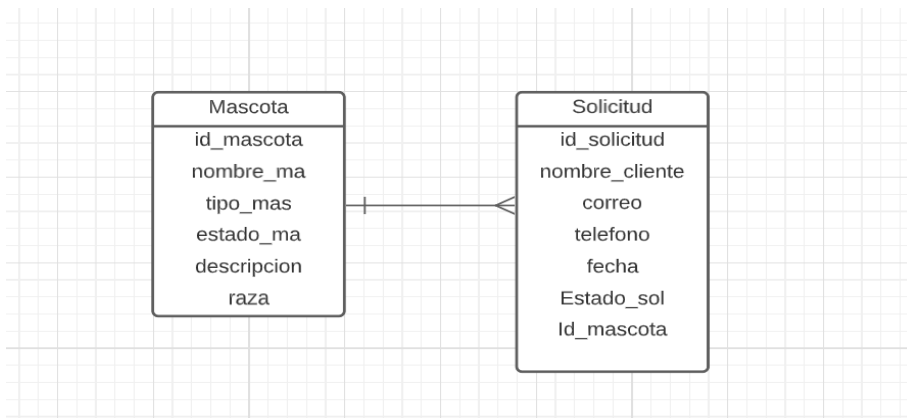
ACTUALIZACIÓN EN NUEVAS TECNOLOGÍAS PARA EL DESARROLLO DE
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PASTO -NARIÑO

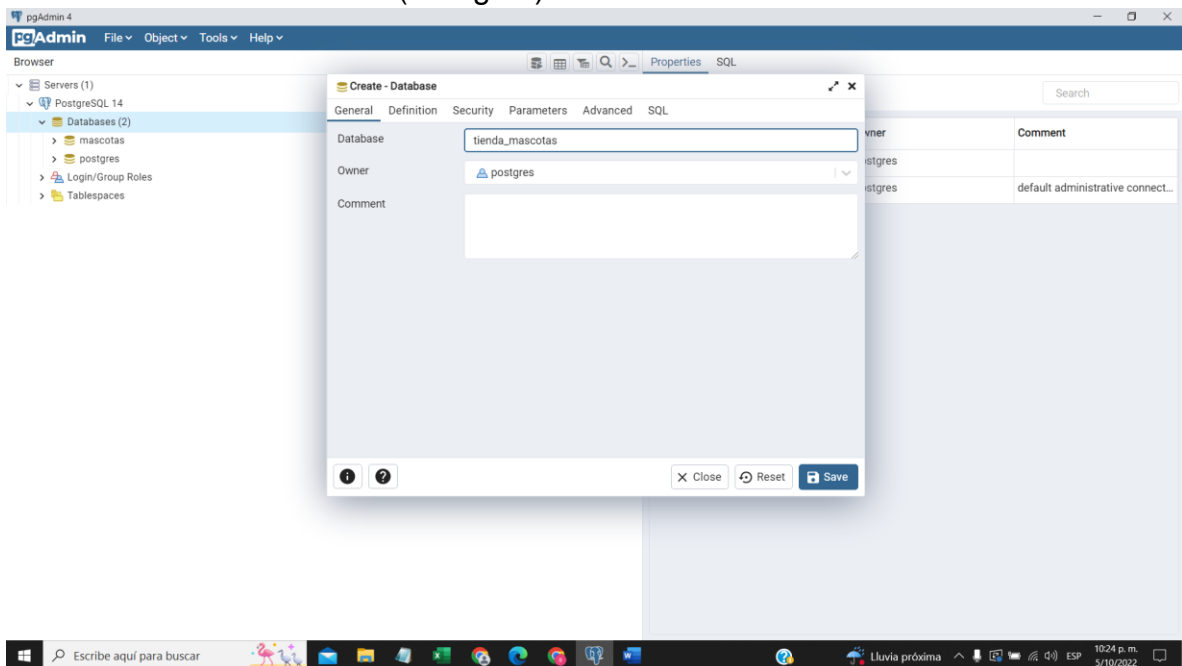
2022

1. una base de datos POSTGRES que permita llevar el registro de mascotas (perros y gatos), así como también el proceso de solicitud de adopción de estas.

- Diagrama relacional



- Creación de base de datos (Postgres)



2. Desarrollar una aplicación Backend implementada en NodeJS y ExpressJS que haga uso de la base de datos del primer punto y que permita el desarrollo de todas las tareas asociadas al registro y administración de las mascotas dadas en adopción por la empresa (La empresa debe contar con un nombre).

Se debe hacer uso correcto de los verbos HTTP dependiendo de la tarea a realizar.

```
console

[... mascotasBackEnd]$ 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: (mascotasbackend)
version: (1.0.0) 0
Invalid version: "0"
version: (1.0.0) 0.0.1
entry point: (index.js)
test command:
git repository: (https://github.co
DiplomadoSoftware/mascotasBackEnd.git)
keywords:
author: petro coders
license: (ISC)
About to write to /home/seriesr/Diplomado
Udenar/Modulo1/final projects/mascotasBackEn
package.json:

{
  "dependencies": {
    "cors": "^2.8.5",
    "express": "^4.18.1"
  },
  "devDependencies": {
    "sequelize": "^6.24.0"
  },
  "name": "mascotasbackend",
  "description": "Simple backend for study",
  "version": "0.0.1",
  "main": "index.js",
  "scripts": {
    "test": "echo \"Error: no test specified\" &&
exit 1"
  },
  "repository": {
    "type": "git",
    "url": "git+https://github.co
DiplomadoSoftware/mascotasBackEnd.git"
  },
  "author": "petro coders",
  "license": "ISC",
  "bugs": {
    "url": "https://github.com/DiplomadoSoftwar
mascotasBackEnd/issues"
  },
  "homepage": "https://github.co
DiplomadoSoftware/mascotasBackEnd#readme"
}

Is this OK? (yes) yes
```


console

```
[... mascotasBackEnd]$ npm install cors  
  
added 3 packages, and audited 4 packages in 2s  
  
found 0 vulnerabilities
```

 @codebeautify

console

```
[... mascotasBackEnd]$ npm install express  
  
added 56 packages, and audited 60 packages in 4s  
  
7 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities
```

 @codebeautify

console

```
[... mascotasBackEnd]$ npm install sequelize  
  
added 22 packages, and audited 82 packages in 5s  
  
8 packages are looking for funding  
  run `npm fund` for details  
  
found 0 vulnerabilities
```

 @codebeautify

console

```
[... mascotasBackEnd]$ npm install -D nodemon
```

```
added 32 packages, removed 22 packages, and  
audited 92 packages in 5s
```

```
10 packages are looking for funding  
  run `npm fund` for details
```

```
found 0 vulnerabilities
```


console

```
[... mascotasBackEnd] $ npm install -d sequelize-cli
```

```
added 62 packages, and audited 190 packages in 6s
```

```
17 packages are looking for funding  
  run `npm fund` for details
```

```
found 0 vulnerabilities
```

console

```
[... mascotasBackEnd] npx sequelize-cli init
```


```
Sequelize CLI [Node: 16.15.0, CLI: 6.5.1, ORM: 6.24.0]
```


```
Created "config/config.json"
```

```
$Successfully created models folder at "/home/series  
dDiplomado Udenar/Modulo1/final projects/mascotasBackEn  
models".
```

```
$Successfully created migrations folder at "/home/series  
dDiplomado Udenar/Modulo1/final projects/mascotasBackEn  
migrations".
```

```
$Successfully created seeders folder at "/home/series  
dDiplomado Udenar/Modulo1/final projects/mascotasBackEn  
seeders".
```

 @codebeautify

 **DiplomadoSoftware / mascotasBackEnd** Public



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[main](#)

Commits on Oct 7, 2022


initial configuration backend
seriesr authored and seriesr committed 7 minutes ago

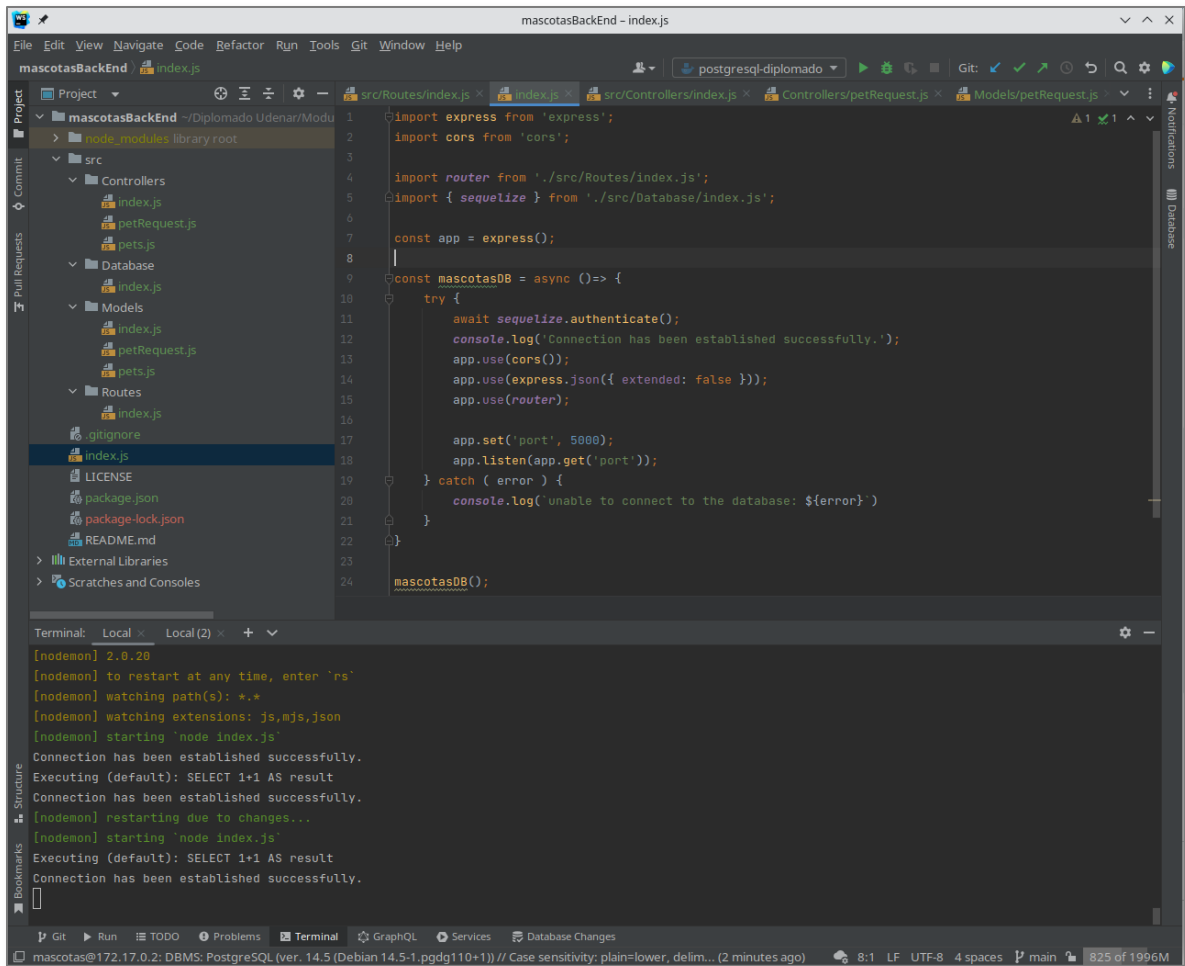
 [eae8d49](#) 

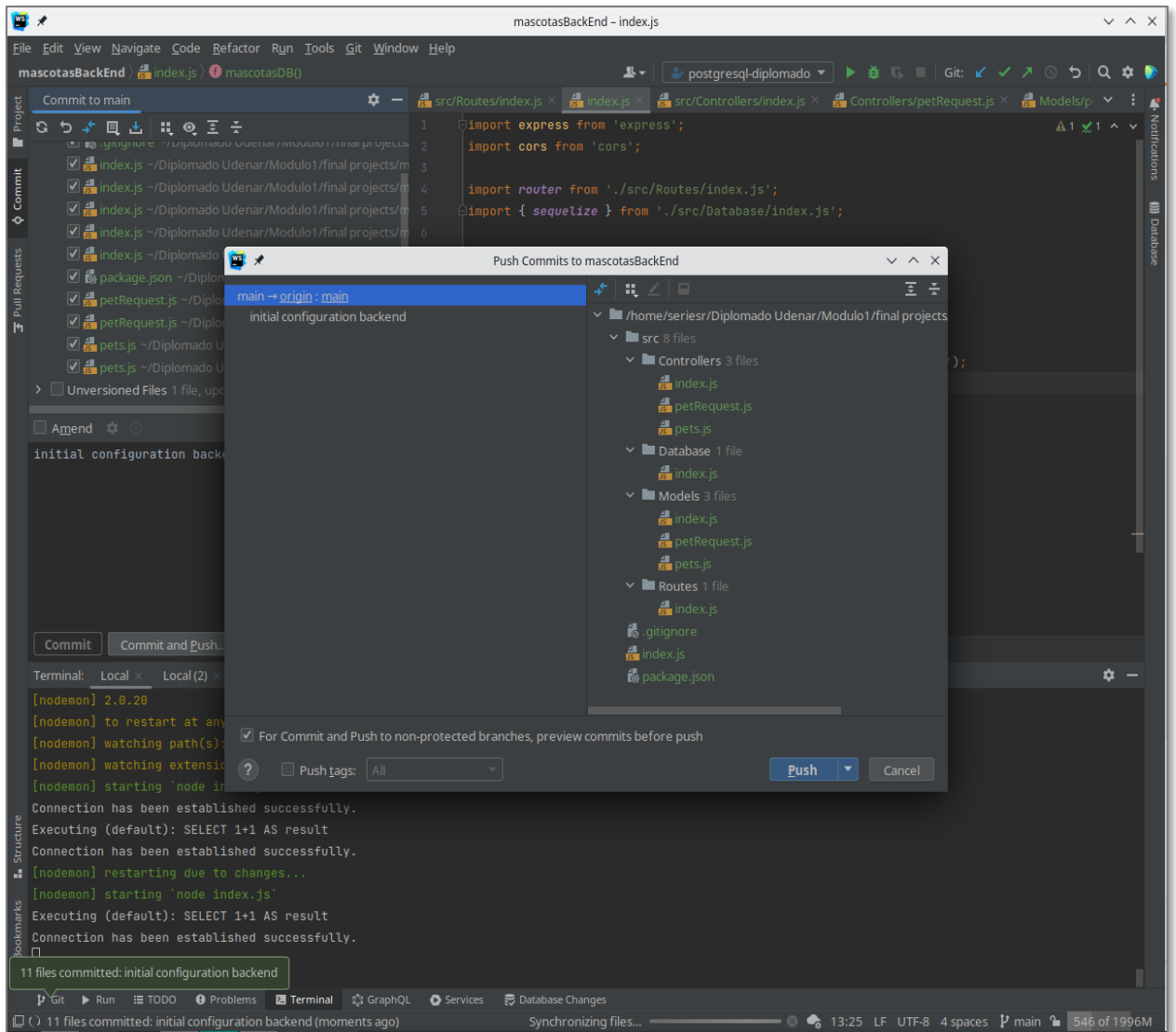
Initial commit
 DiplomadoSoftware committed 2 hours ago

Verified  [7b3fc3b](#) 

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The screenshot shows the Visual Studio Code editor with the file explorer on the left displaying the project structure for 'MASCOTASBACKEND'. The 'index.js' file is open in the editor, showing the following code:

```
src > Database > index.js > [0] sequelize > define
1 import Sequelize from 'sequelize';
2
3 const sequelize = new Sequelize('mascotas', 'postgres', '12345678', {
4   host: '172.17.0.2',
5   dialect: 'postgres',
6   define: {
7     schema: 'schema_mascotas'
8   }
9 });
10
11 export {
12   sequelize
13 }
```

The terminal at the bottom shows the following output:

```
commit 0f145593ef55299db97228ed9b97b1b65d2678ce (HEAD -> alopez)
Author: ADRIAN LOPEZ <adrianinsuasty@udenar.edu.co>
Date: Fri Oct 14 15:09:06 2022 -0500

Add definition schema

commit ea8bd050f8d1f06f0ec869b9c325a794828d31 (origin/main, origin/HEAD, main)
Author: seriesr <ghp.ZtsdJqkM14kz6WuQ6uAjXgpXAc6121phvr>
Date: Fri Oct 7 22:17:10 2022 -0500

initial configuration backend

commit 7b3fc3b7daee90fc5176b269d992a2255b242fb
Author: DiplomadoSoftware <113448210@DiplomadoSoftware@users.noreply.github.com>
Date: Fri Oct 7 20:54:41 2022 -0500
```

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src > Database > index.js > ...
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2
3 const sequelize = new Sequelize('mascotas', 'postgres', '12345678', {
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Add definition schema

commit ea8bd050f8d1f06f0ec869b9c325a794828d31 (origin/main, origin/HEAD, main)
Author: seriesr <ghp.ZtsdJqkM14kz6WuQ6uAjXgpXAc6121phvr>
Date: Fri Oct 7 22:17:10 2022 -0500

initial configuration backend

commit 7b3fc3b7daee90fc5176b269d992a2255b242fb
Author: DiplomadoSoftware <113448210@DiplomadoSoftware@users.noreply.github.com>
Date: Fri Oct 7 20:54:41 2022 -0500
```

```
src > Models > petRequest.js > petRequest.js
42 // update incoming data
43 oldPetRequest.nombre_cliente = clientName || oldPetRequest.nombre_cliente;
44 oldPetRequest.correo = mail || oldPetRequest.correo;
45 oldPetRequest.telefono = phone || oldPetRequest.telefono;
46 oldPetRequest.fecha = date || oldPetRequest.fecha;
47 oldPetRequest.estado = state || oldPetRequest.estado;
48
49 const updatedPetRequest = await oldPetRequest.save();
50
51 res.status(200).json(updatedPetRequest);
52 } catch (error) {
53   res.status(400).json({ Error: `${error}` });
54 }
55 }
56
57 const deletePetRequest = async (req, res) => {
58   try {
59     const { idSol } = req.params;
60     await PetRequest.destroy({ where: { id: idSol } });
61     res.status(200).json({ body: { id: idSol } });
62   } catch (error) {
63     //
64   }
65 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
-a----- 14/10/2022 2:52 p. m. 1095 LICENSE
-a----- 14/10/2022 2:52 p. m. 726 package.json
-a----- 14/10/2022 2:52 p. m. 45 README.md

PS D:\VadopciónMascotas\mascoasBackEnd> git add .
PS D:\VadopciónMascotas\mascoasBackEnd> git status
On branch alopez
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   src/Models/petRequest.js

PS D:\VadopciónMascotas\mascoasBackEnd> git commit -m "Add get,post,put,delete.(Request)"
[alopez e6922d1] Add get,post,put,delete.(Request)
1 file changed, 66 insertions(+), 29 deletions(-)
PS D:\VadopciónMascotas\mascoasBackEnd >
```

```
src > Routes > index.js > index.js
1 import { Router } from 'express';
2 import { getPets, postPet, putPet, deletePet } from '../Controllers/pets.js';
3 import { getPetRequests, postPetRequest, putPetRequest, deletePetRequest } from '../Controllers/petRequest.js';
4
5
6 const router=Router();
7
8 router.get('/',(req,res)=>{
9   res.send("Hola estamos en Index");
10 });
11 // Pet routes
12 router.get('/mascotas', getPets);
13 router.post('/mascotas', postPet);
14 router.put('/mascotas/:id', putPet);
15 router.delete('/mascotas/:id', deletePet);
16
17 // Petrequest routes
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
Copyright (C) Microsoft Corporation. Todos los derechos reservados.

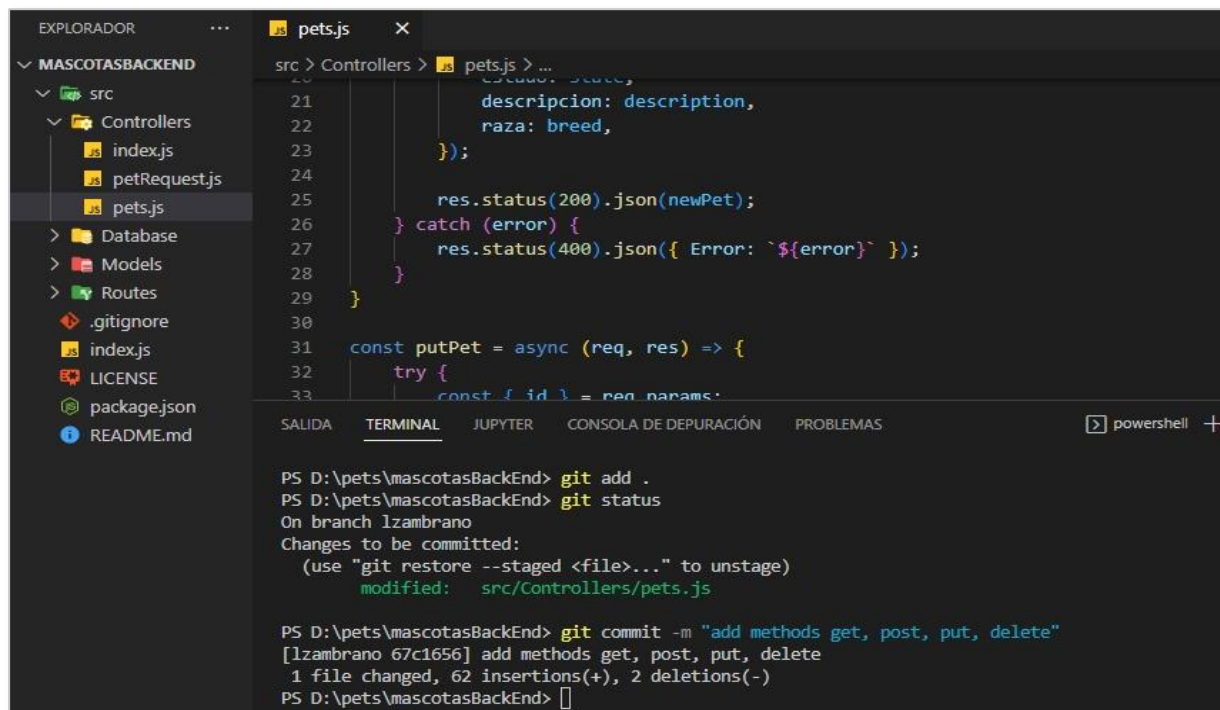
Prueba la nueva tecnología PowerShell multiplataforma https://aka.ms/pscore6

PS D:\VadopciónMascotas\mascoasBackEnd> git add .
PS D:\VadopciónMascotas\mascoasBackEnd> git status
On branch alopez
Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
        modified:   src/Routes/index.js

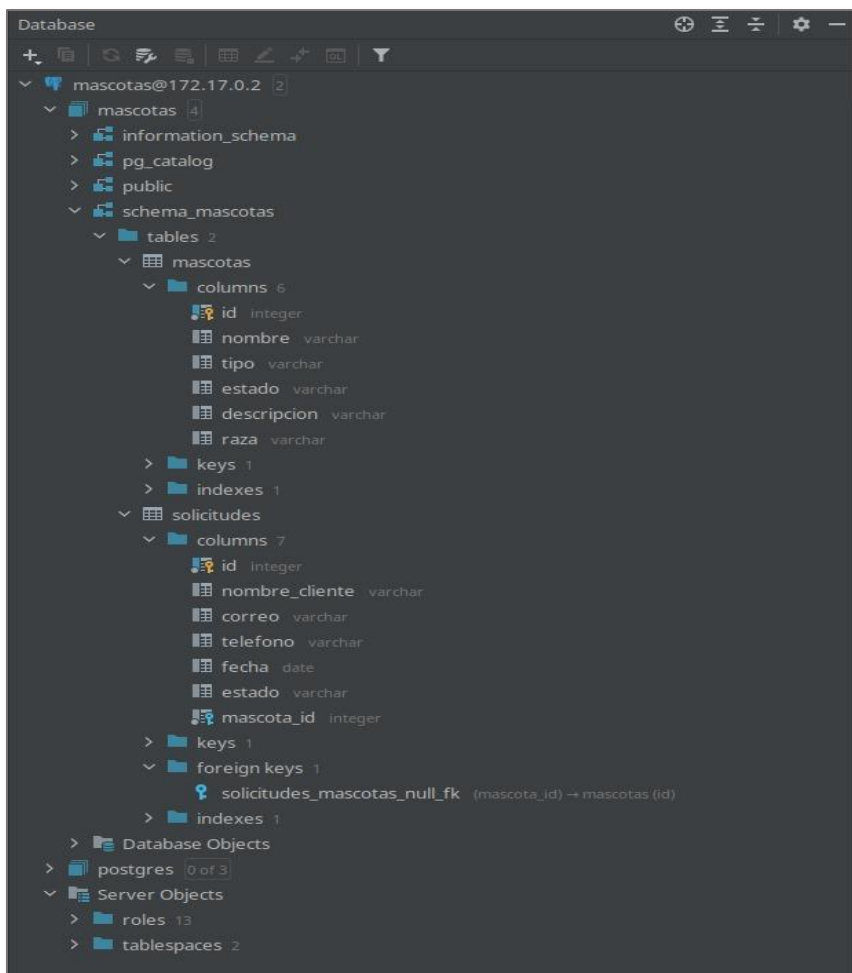
PS D:\VadopciónMascotas\mascoasBackEnd> git commit -m "Add pet routes, PetRequest"
[alopez 18f96c] Add pet routes, Petrequest
1 file changed, 14 insertions(+), 8 deletions(-)
PS D:\VadopciónMascotas\mascoasBackEnd> git log
commit 18f96c10f2dd43c0b0ed02929027f30bb04 (HEAD -> alopez)
Author: ADRIAN LOPEZ <adrianlopez@udenar.edu.co>
Date: Fri Oct 14 23:11:09 2022 -0500

    Add pet routes, PetRequest

commit e6922d1582336c1c171d2eaaF2da39bd3a5930ba
```



*Creación base de datos en el back



The screenshot shows the Visual Studio Code interface with the Explorer on the left, the Source Explorer in the middle, and the Terminal at the bottom. The Explorer shows the project structure for 'MASCOTASBACKEND', including 'src', 'Database', and 'Models' folders. The Source Explorer shows the 'index.js' file in the 'Models' folder. The code in 'index.js' defines a Sequelize model for 'mascotas' with fields 'id', 'nombre', and 'tipo'. The terminal shows the execution of 'git add', 'git status', and 'git commit' commands.

```
src > Models > index.js > ...
1 import { DataTypes } from "sequelize";
2 import { sequelize } from "../Database/index.js";
3 import { PetRequest } from "../petRequest.js";
4
5 const Pet = sequelize.define( 'mascotas', {
6   id: {
7     type: DataTypes.INTEGER,
8     primaryKey: true
9   },
10  nombre: {
11    type: DataTypes.STRING
12  },
13  tipo: {
14    type: DataTypes.STRING
```

PS D:\pets\mascotasBackEnd> git add .
PS D:\pets\mascotasBackEnd> git status
On branch lzambrano
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
 modified: src/Models/index.js

PS D:\pets\mascotasBackEnd> git commit -m "defining pet model"
[lzambrano 767a729] defining pet model
1 file changed, 30 insertions(+), 2 deletions(-)
PS D:\pets\mascotasBackEnd>

The screenshot shows the Visual Studio Code interface with the Explorer on the left, the Source Explorer in the middle, and the Terminal at the bottom. The Explorer shows the project structure for 'MASCOTASBACKEND', including 'src', 'Database', and 'Models' folders. The Source Explorer shows the 'index.js' file in the 'Database' folder. The code in 'index.js' defines a Sequelize instance with database credentials and a schema. The terminal shows the execution of 'git add', 'git status', and 'git commit' commands.

```
src > Database > index.js > ...
1 import Sequelize from 'sequelize';
2
3 const sequelize = new Sequelize('mascotas', 'postgres', '12345678', {
4   host: '172.17.0.2',
5   dialect: 'postgres',
6   define: {
7     schema: 'schema_mascotas'
8   }
9 });
10
11 export {
12   sequelize
13 }
```

PS D:\pets\mascotasBackEnd> git add .
PS D:\pets\mascotasBackEnd> git status
On branch lzambrano
Changes to be committed:
 (use "git restore --staged <file>..." to unstage)
 modified: src/Database/index.js

PS D:\pets\mascotasBackEnd> git commit -m "add credentials to the database instance"
[lzambrano fa07e42] add credentials to the database instance
1 file changed, 4 insertions(+), 1 deletion(-)
PS D:\pets\mascotasBackEnd>

3. Realizar verificación de las diferentes operaciones a través de un cliente grafico (Postman, Imnsomnia, etc.), tomar capturas de pantalla que evidencien el resultado de las solicitudes realizadas.

