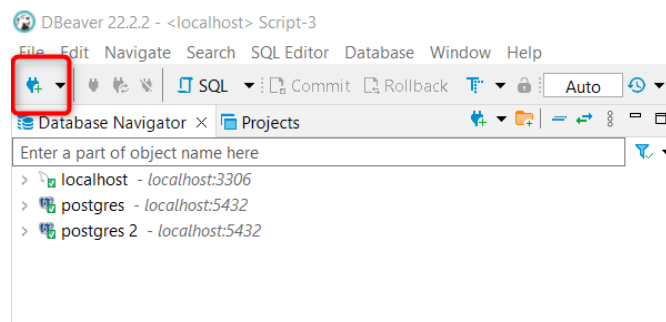


Tutorial

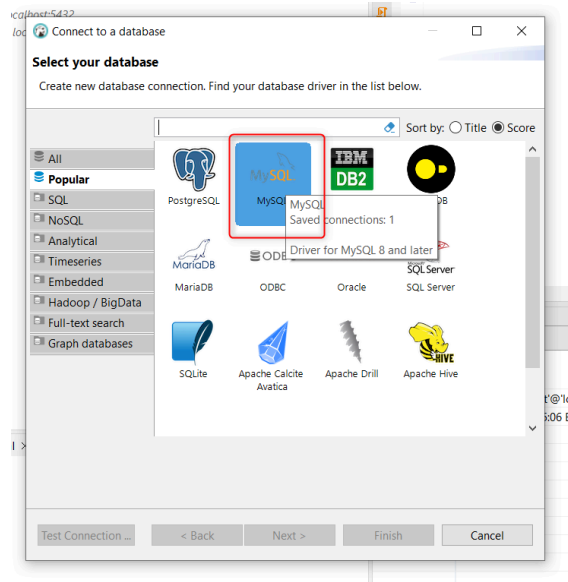
Backend part

Hey! I don't know if the commands are different between Windows and Mac, I will insert what I did in Windows.

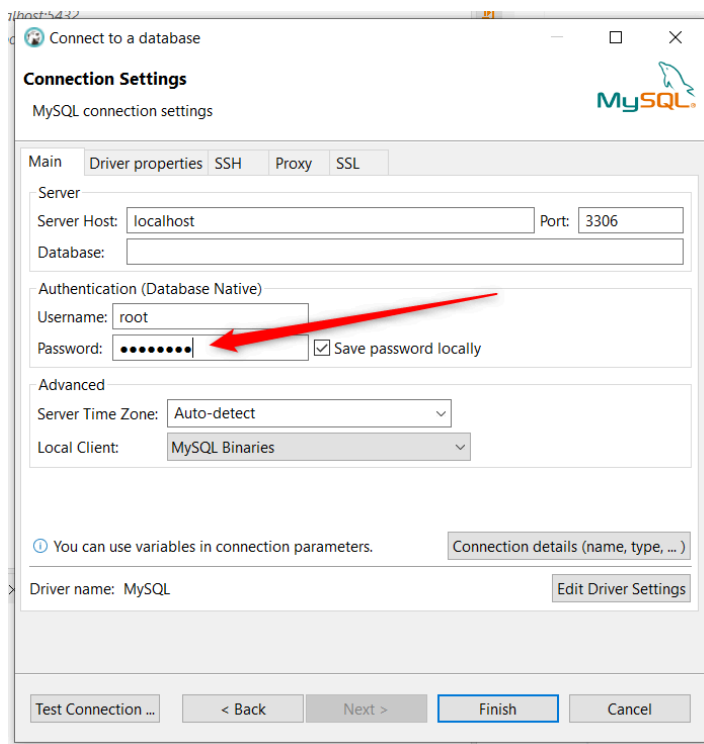
- 1) If you didn't do this yet, download MySQL
 - a) <https://dev.mysql.com/downloads/mysql/> (don't forget to select MacOS)
 - b) [Follow this tutorial to setup correctly](#) (Don't forget the user and password, we'll use on code)
- 2) Access DBeaver
 - a) Click on 'Add new Database'



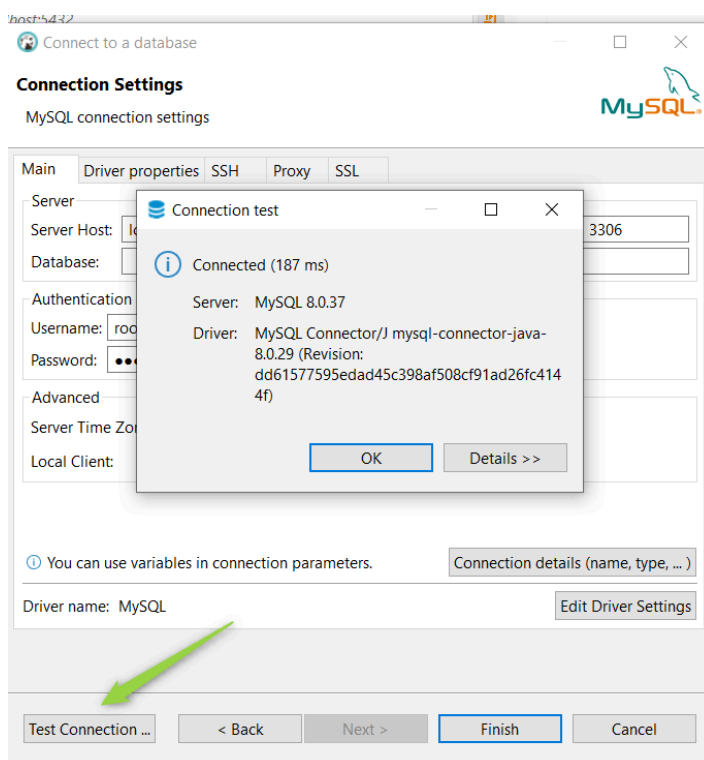
- b) Select MySQL



- c) Don't change anything, only insert the password that you set up before.



d) Click on “Test Connection”



If display any error message, click on Finish >> select the database that you created now >> edit connection >> follow the steps from video Tutorial 1 (inside the folder)

Add:
allowPublicKeyRetrieval = TRUE
useSSL = false

Test again your connection, that will be fixed.

- e) Create your database with table, columns and insert some registers (SQL commands are different between Postgresql and Mysql, use chatgpt if you don't know)

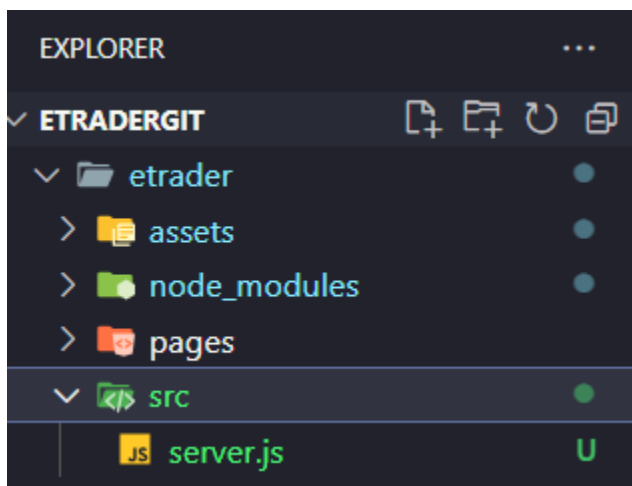
Note: If for any reason you can't connect to database, execute this command (it will change your password for the word 'password')

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH  
mysql_native_password BY 'password';
```

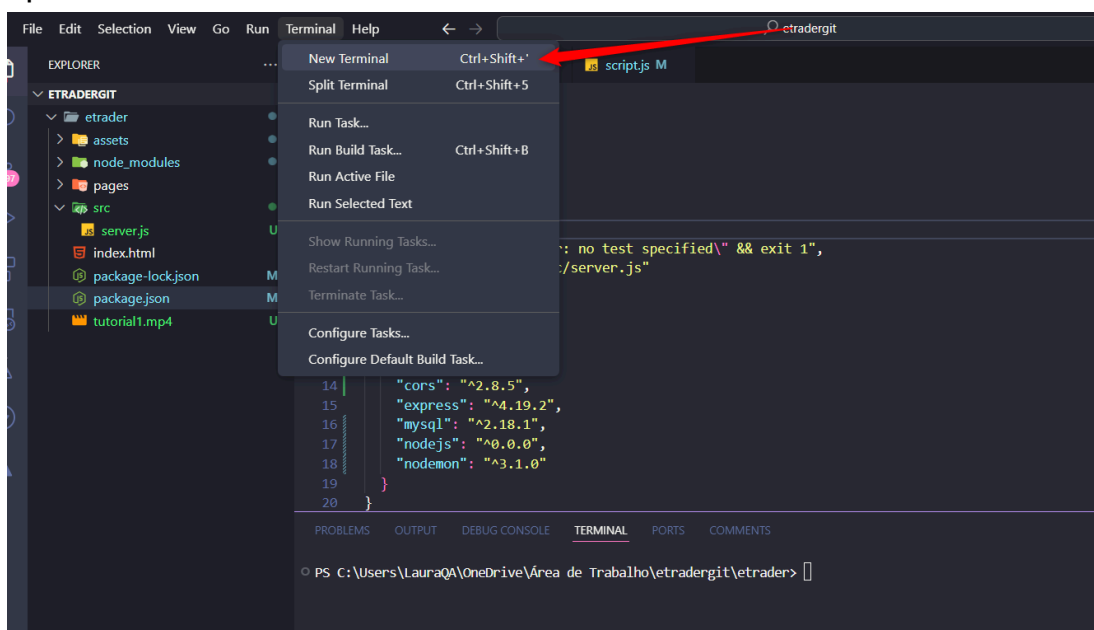
>> [More info](#)

On VsCode

- 3) Create a folder 'src' and put the server.js inside it.



- 4) Open an terminal



- a) Execute these commands:

- Npm i nodejs -> Will update the node from your computer
- Npm init -y -> Will update your package. Json
- Npm i mysql -> Will install the mysql's libraries

- iv) Npm i express -> Will update the express
- v) Npm i nodemon -> Will restart the server automatically when you save the file
- vi) Npm install cors -> Will be responsible for matching routes between the front end and the backend ([you can read more here](#))

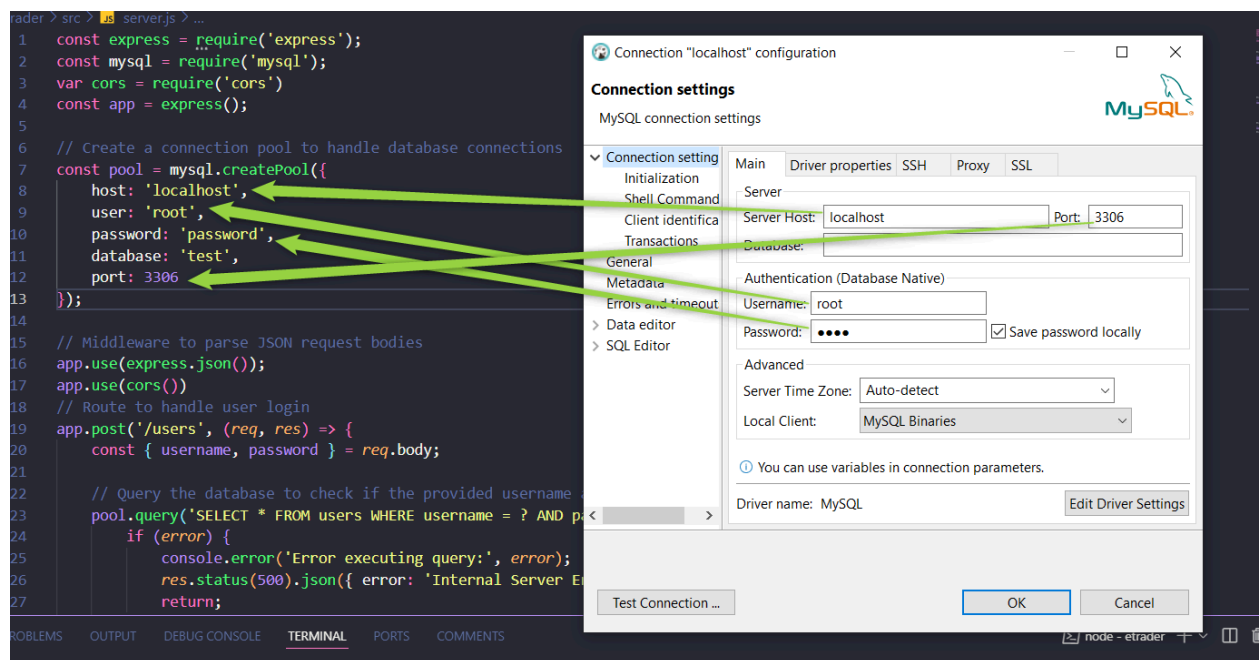
5) Open the package.json file and insert this:

```
etrader > package.json > {} dependencies
1
2 {
3   "name": "etrader",
4   "version": "1.0.0",
5   "description": "",
6   "main": "server.js",
7   > Debug
8   "scripts": {
9     "test": "echo \\\"Error: no test specified\\\" && exit 1",
10    "start": "nodemon src/server.js"
11  },
12  "keywords": [],
13  "author": "",
14  "license": "ISC",
15  "dependencies": {
16    "cors": "^2.8.5",
17    "express": "^4.19.2",
18    "mysql": "^2.18.1",
19    "nodejs": "^0.0.0",
20    "nodemon": "^3.1.0"
21  }
22 }
```

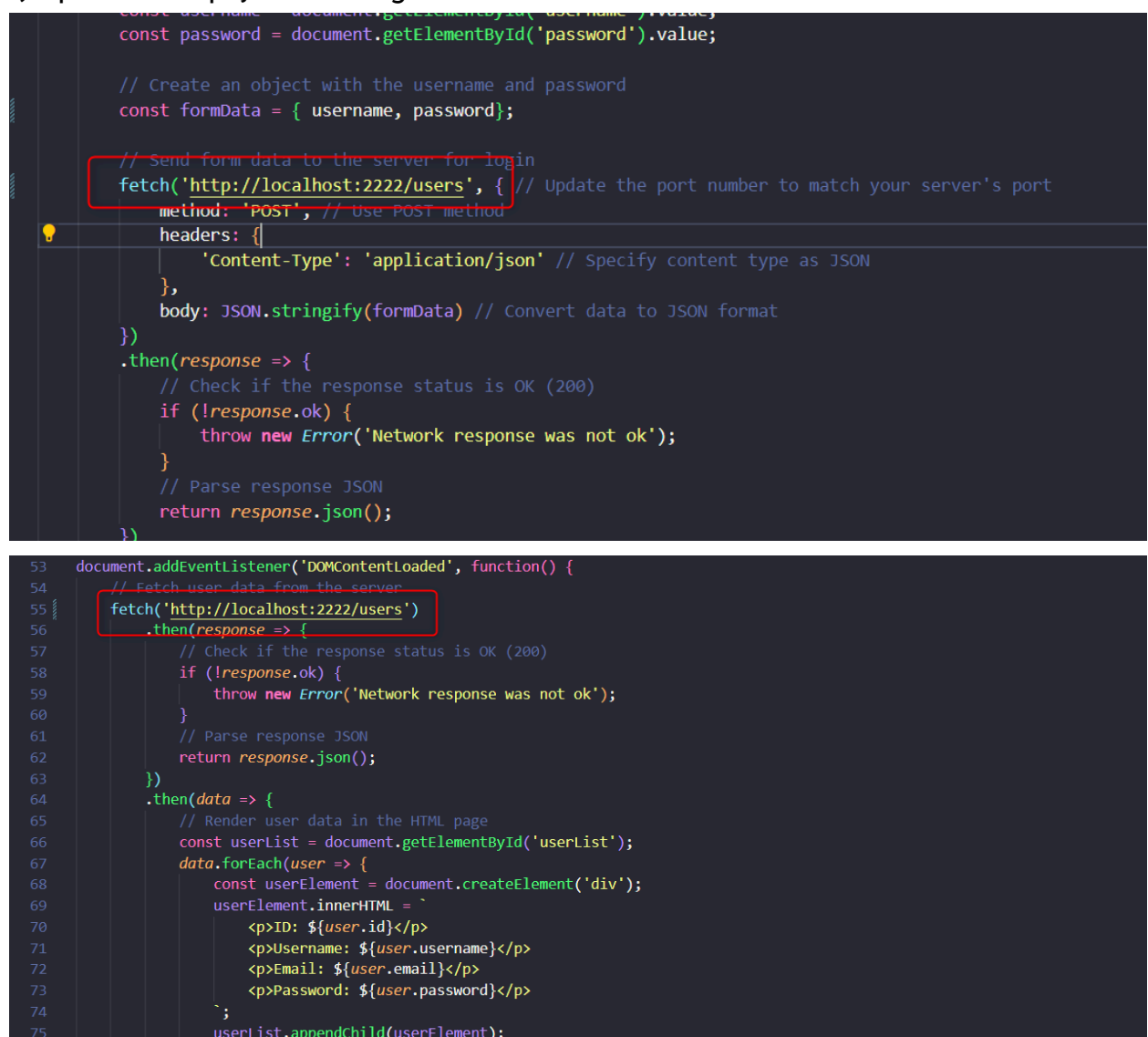
6) Open the server.js file and insert:

```
etrader > src > server.js > ...
1  const express = require('express');
2  const mysql = require('mysql');
3  var cors = require('cors');
4  const app = express();
5
6  // Create a connection pool to handle database connections
7  const pool = mysql.createPool({
8    host: 'localhost',
9    user: 'root',
10   password: 'password',
11   database: 'test',
12   port: 3306
13 });
14
15 // Middleware to parse JSON request bodies
16 app.use(express.json());
17 app.use(cors());
18
19 // Route to handle user login
20 app.post('/users', (req, res) => {
21   const { username, password } = req.body;
22
23   // Query the database to check if the provided username and password combination exists
24   pool.query('SELECT * FROM users WHERE username = ? AND password = ?', [username, password], (error, results) => {
25     if (error) {
26       console.error('Error executing query:', error);
27       res.status(500).json({ error: 'Internal Server Error' });
28       return;
29     }
30
31     if (results.length > 0) {
32       // User login successful
33       res.status(200).json({ success: true, message: 'Login successful' });
34     } else {
35       // User login failed
36       res.status(401).json({ error: 'Invalid credentials' });
37     }
38   });
39 }
```

Don't forget to change the credentials of mysql.createPool for the new credentials



7) Open the script.js and change



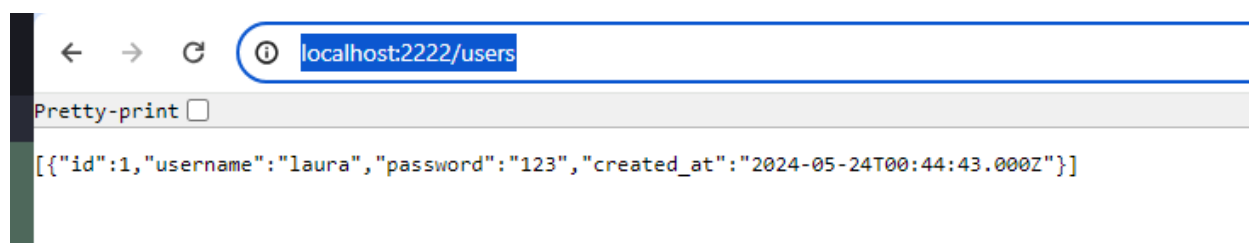
Then, back to your terminal and execute: npm start (this command will be able to push your server up)

```
Deseta finalizar o arquivo em todos (S/N)?
C:\etradergit\etrader> npm start

> etrader@1.0.0 start
> nodemon src/server.js

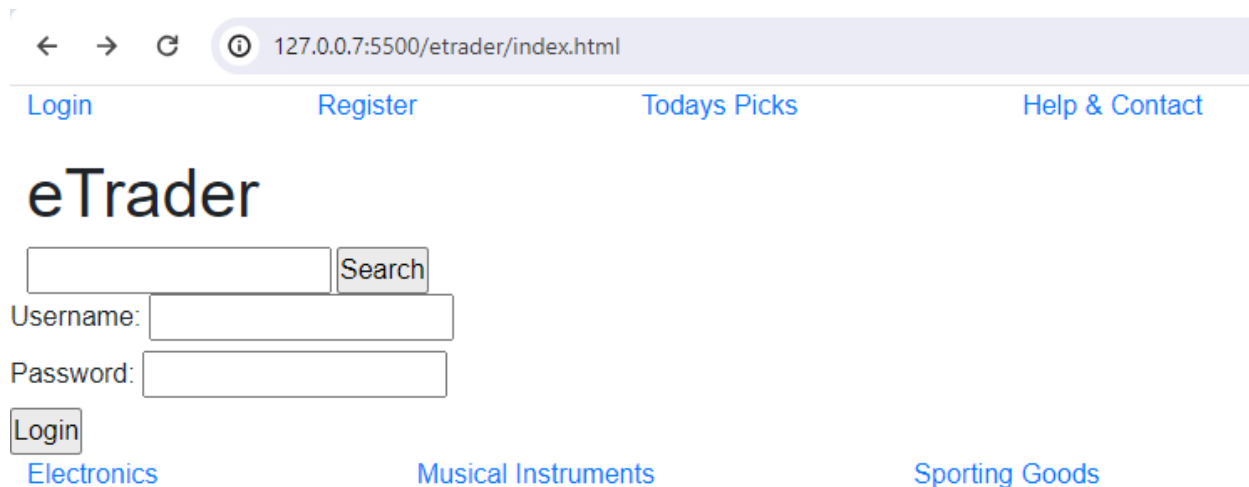
[nodemon] 3.1.0
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting `node src/server.js`
Server is running on port 2222
█
```

Open <http://localhost:2222/users> on your browser and will display your records from your database



/users -> are the routes that you created on server.js (‘/users’)

Access <http://127.0.0.7:5500/etrader/index.html> and try to login with the credentials that you created.



Let me know if you have any questions. Hope this helps you.

- Laura :)