Creating a RESTful API using express.js and creating a database and index in MongoDB.

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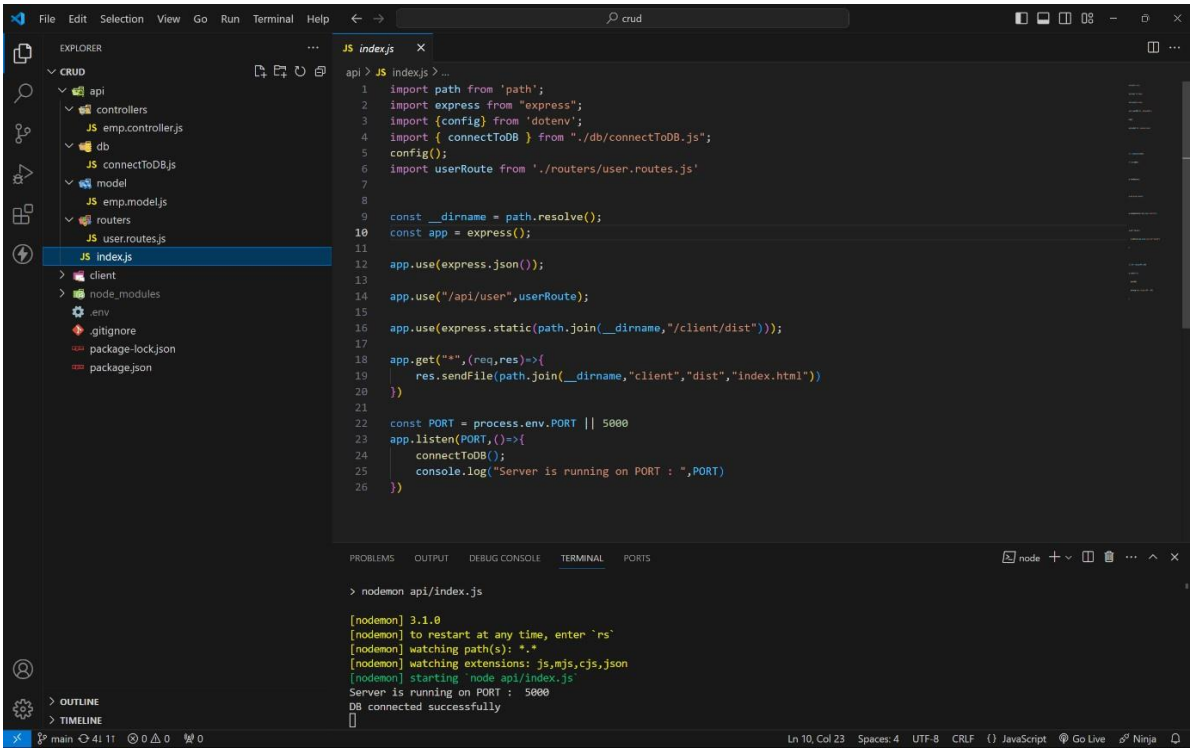
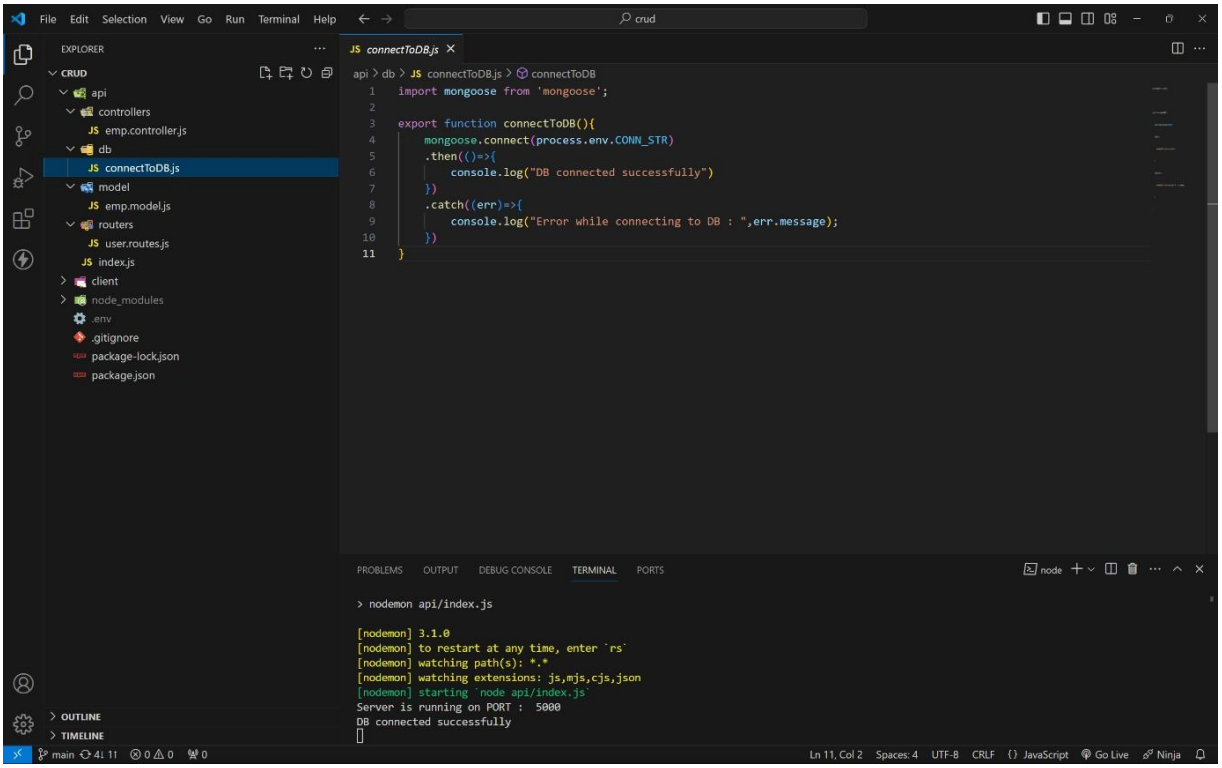
source code :

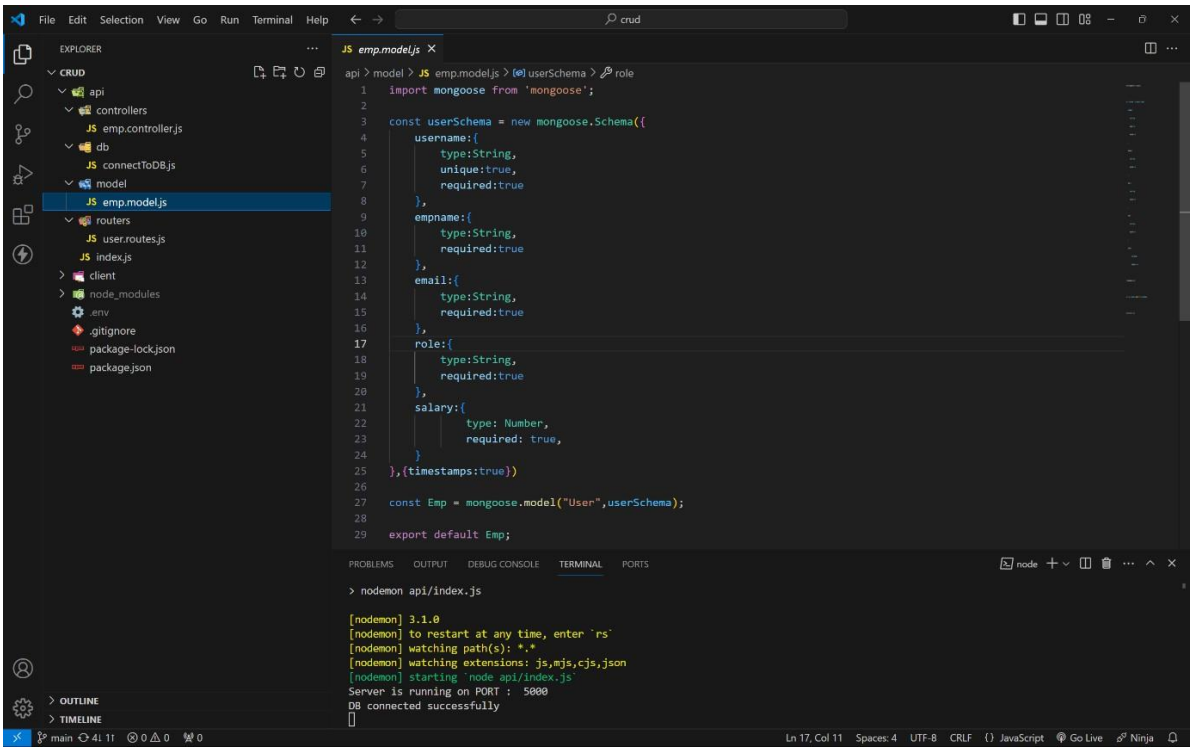
index.js file :



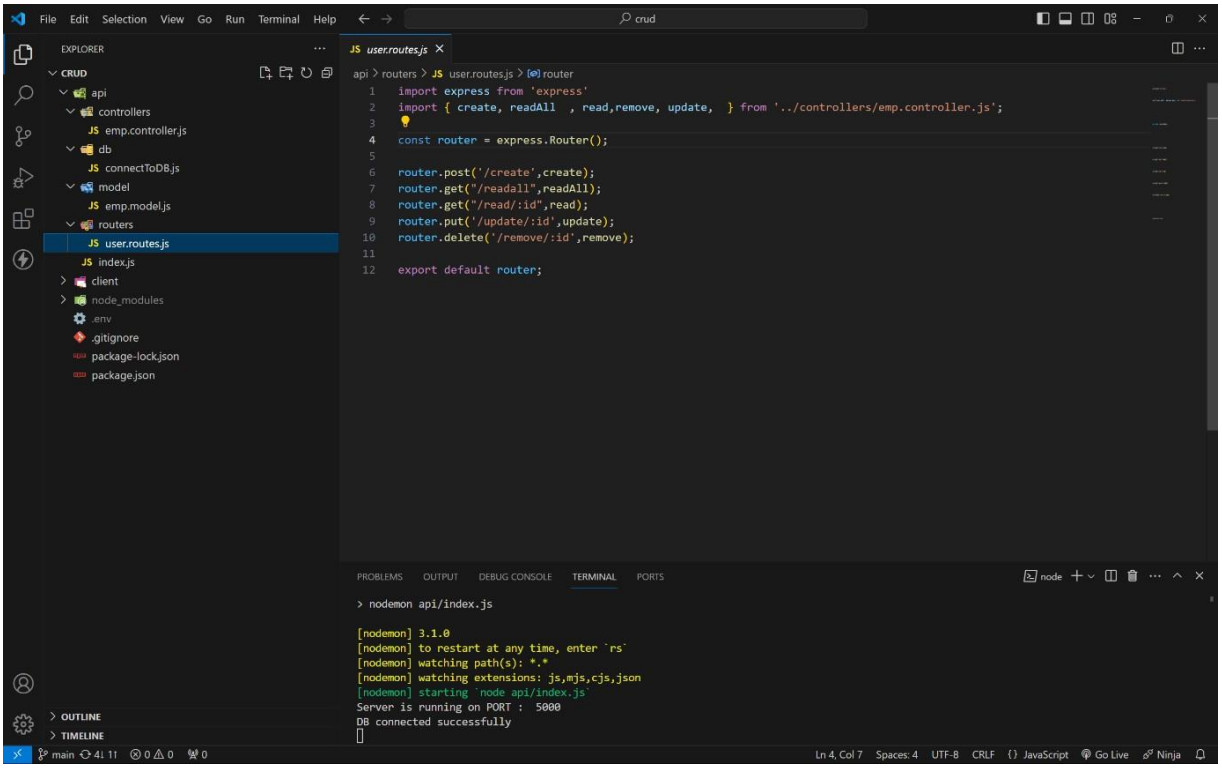
MONGODB CONNECTION :



MODEL :

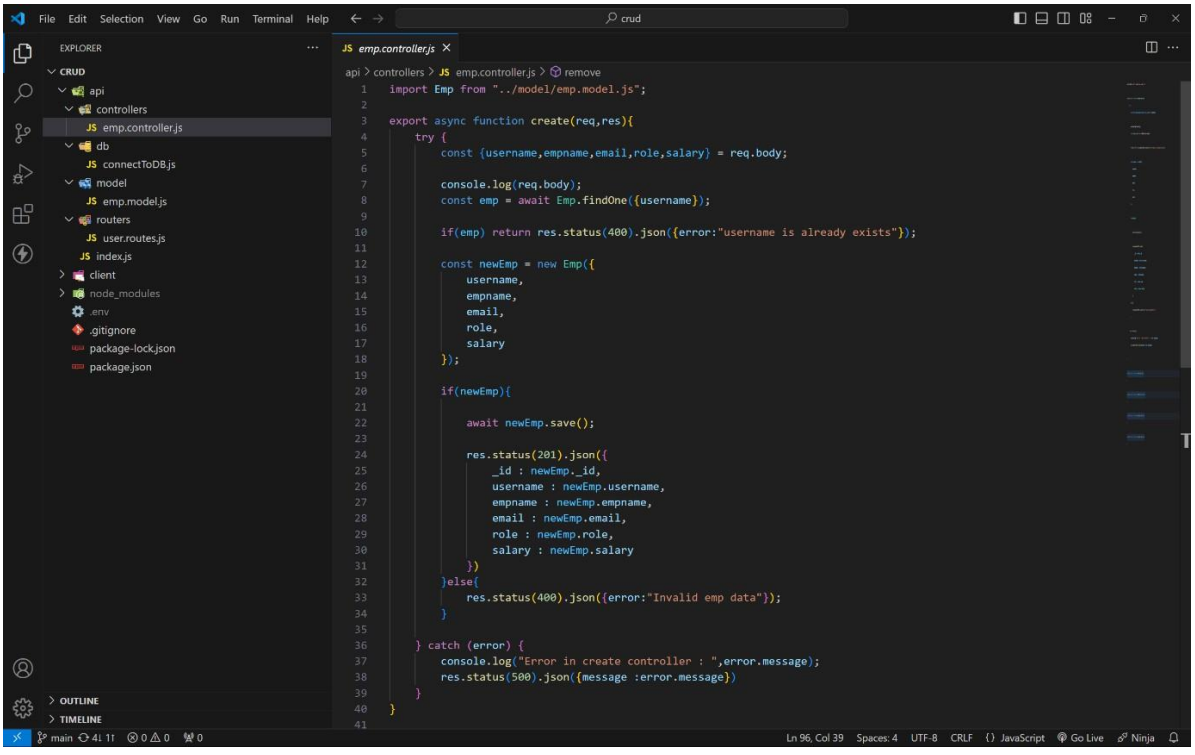


ROUTES:

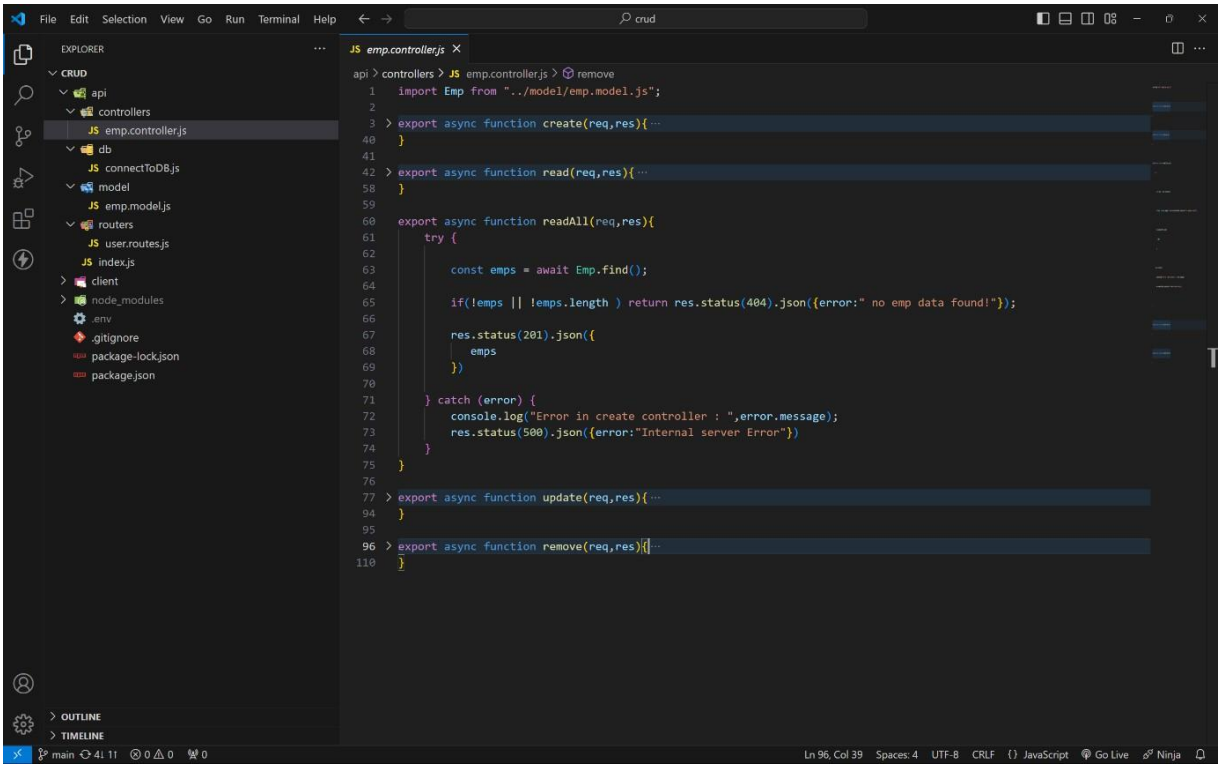


CONTROLLERS :

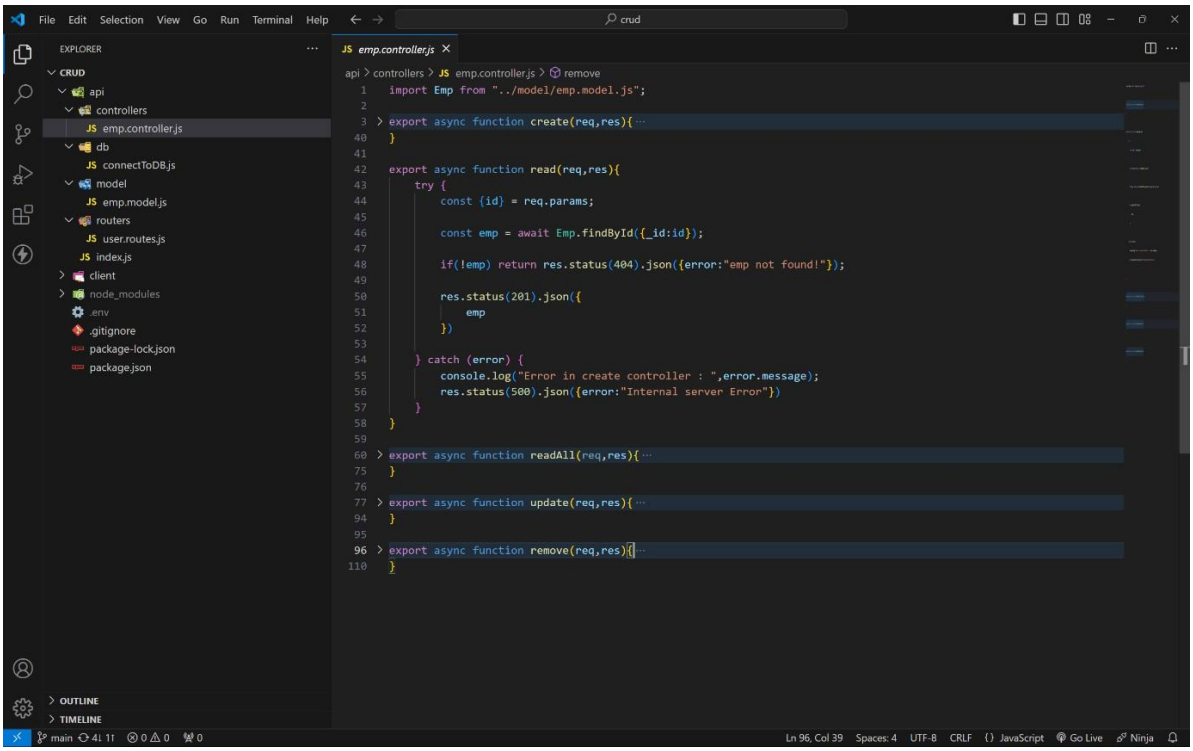
CREATE :



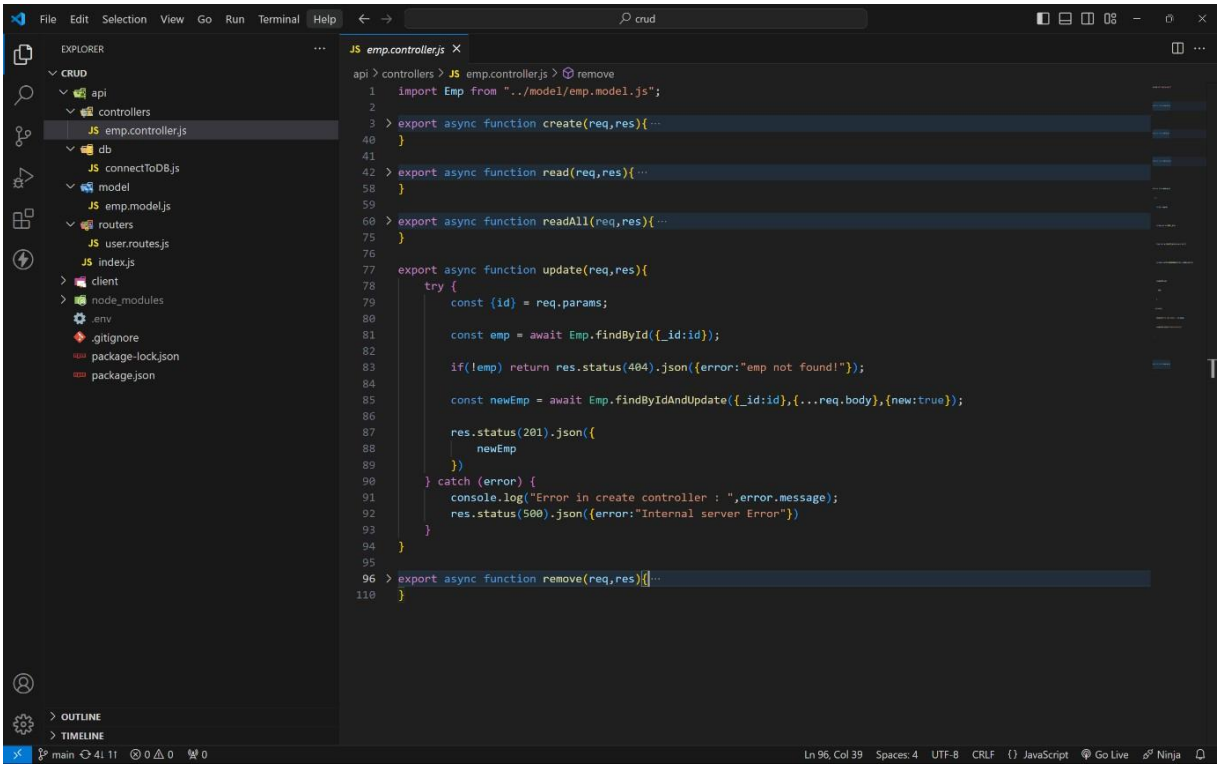
READALL:



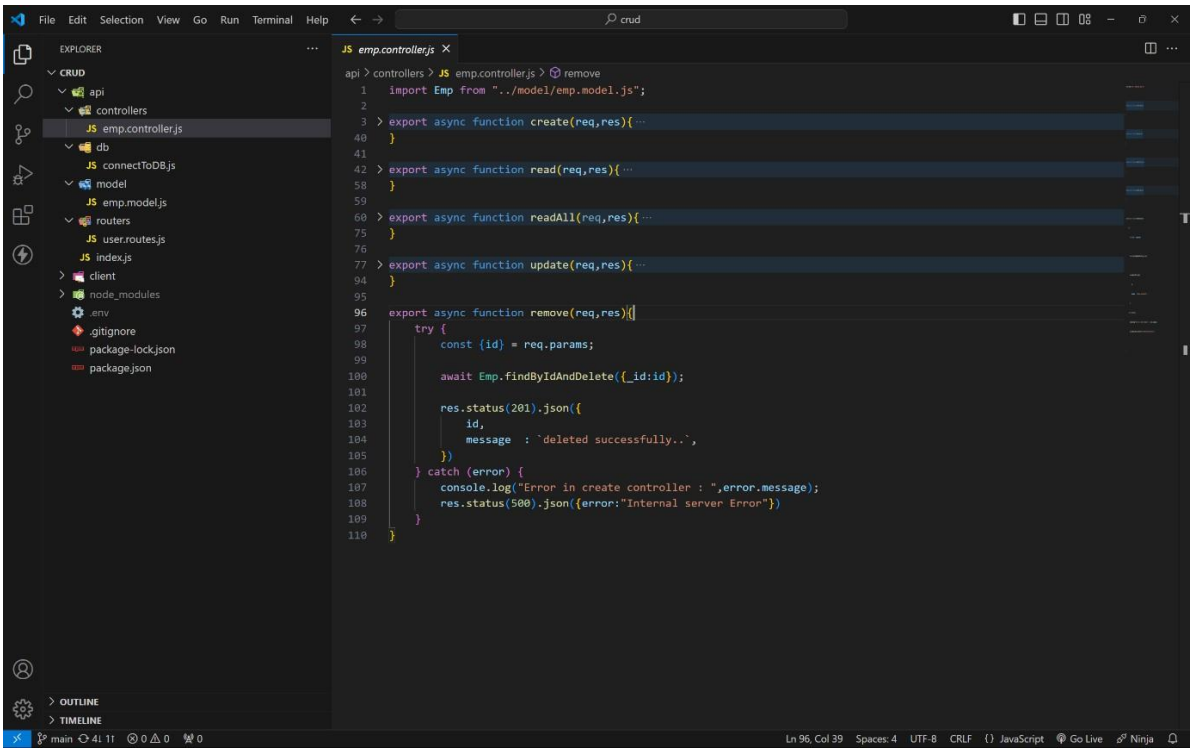
READONE :



UPDATE :



DELETE :

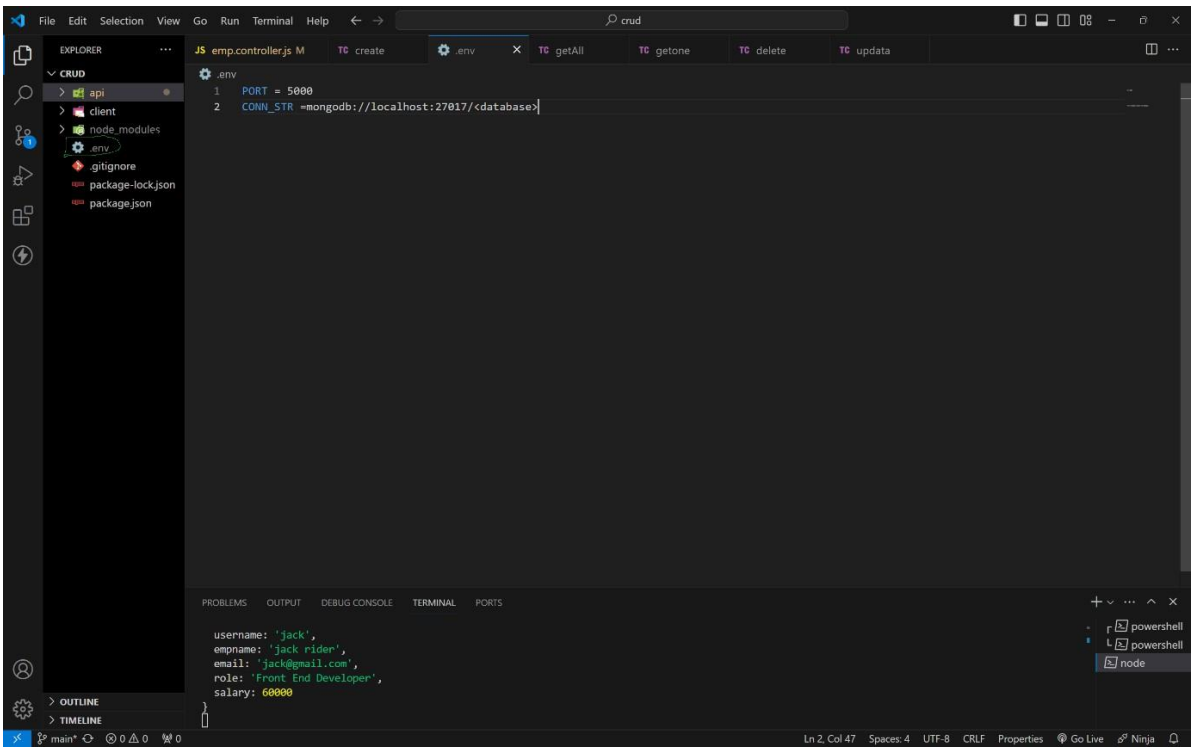


HOW TO RUN ON LOCALLY :

1. **Create a folder as any name.**
2. **Open that folder in any code editor (vs code).**
3. **Open terminal (ctrl + ~) on code editor.**
4. **Now move to crud folder (cd crud in terminal)**
5. **Ignore client folder.**
6. **Here crud is root folder.**
7. **In root folder create a .env file and create a PORT and CONN_STR variables and assign value.**

ex : PORT = 3000 (commonly any number between 3000 - 8080).

CONN_STR = your mongodb_connection_string.



--- trouble in above process ? :

simply paste this code in .env file .

PORT = 5000

CONN_STR=mongodb<databasename>

8. After in terminal (in crud folder as root folder) type this command to run server.

npm i (installing all dependencies)

npm run dev (to run server)

9. if you get below message in terminal then your server will running successfully.

```
PS C:\Users\4727y\OneDrive\Desktop\internshala\crud> npm run dev

> crud@1.0.0 dev
> nodemon api/index.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 api/index.js`
Server is running on PORT :  5000
DB connected successfully
```

route and its functionality :

For this use any API using tools like Postman or Thunder Client.

i use THUNDER CLIENT.

CREATE ROUTE :

1. **This route is used to create a new employee in database with a below fields.**

username, empname, email, role, salary

2. **in thunder client click on new request and select this options**

method as post

url as http://localhost:5000/api/user/create

pass this json data as a body as your required value.

```
{
"username": "jack",
"empname": "jack rider",
"email": "jack@gmail.com",
"role": "Front End Developer",
"salary": 60000
}
```

3. **finally press send to insert data in mongodb data base and get a inserted**

data as a response.

4. **If user is already in db it will return User is already exist as response.**

for more details visit below output images...

READONE :

1. **This route is used to read specific user info by passing that user id as a param.**

   method as get

   url as http://localhost:5000/api/user/read/65ed7b3d76e1dcc9a51654ca

2. **After sending you will get that specific user details as response.**

READALL :

1 . Read all route is used to get all the user data existing in the mongodb data base .

method as get

url as http://localhost:5000/api/user/readall

2 . After sending you will get that all user details as response.

UPDATE :

1. **This route is used to update specific user by passing that user id as a param.**

   method as put

   url as http://localhost:5000/api/user/update/65ed7b3d76e1dcc9a51654ca

2. **After sending you will get updated user details as response.**

DELETE :

1. **This route is used to delete specific user by passing that user id as a param.**

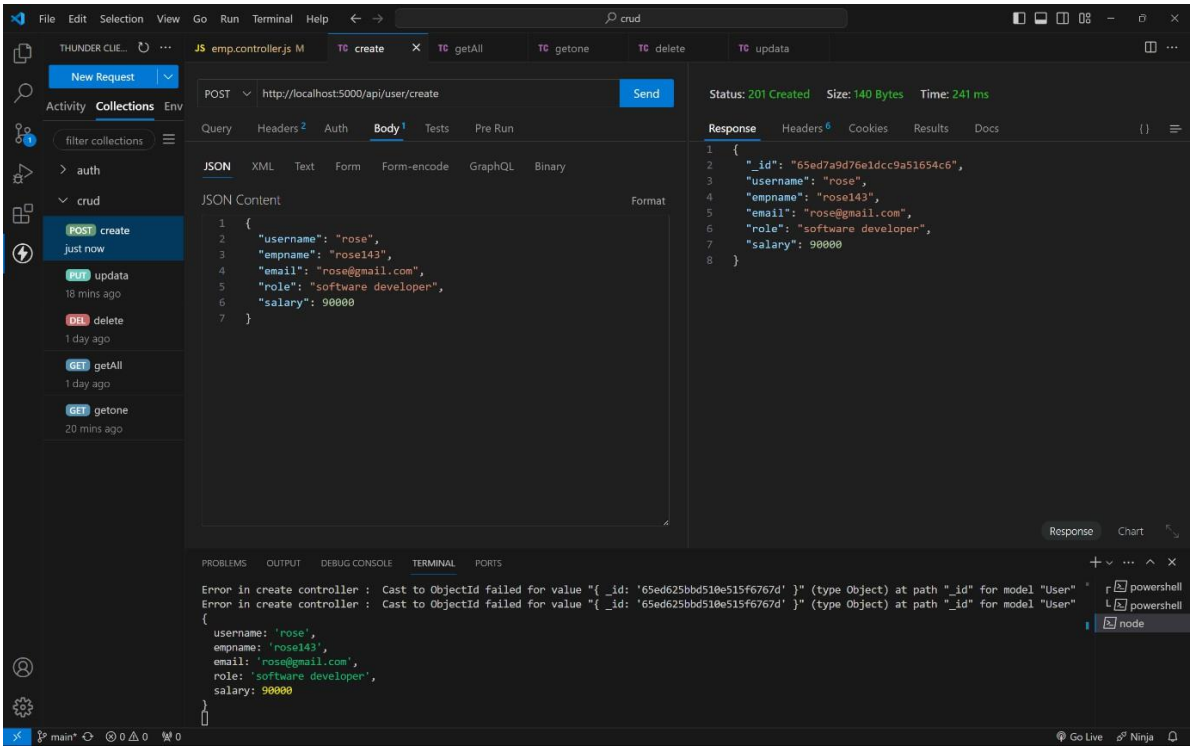
   method as delete

   url as
   http://localhost:5000/api/user/delete/65ed7b3d76e1dcc9a51654ca

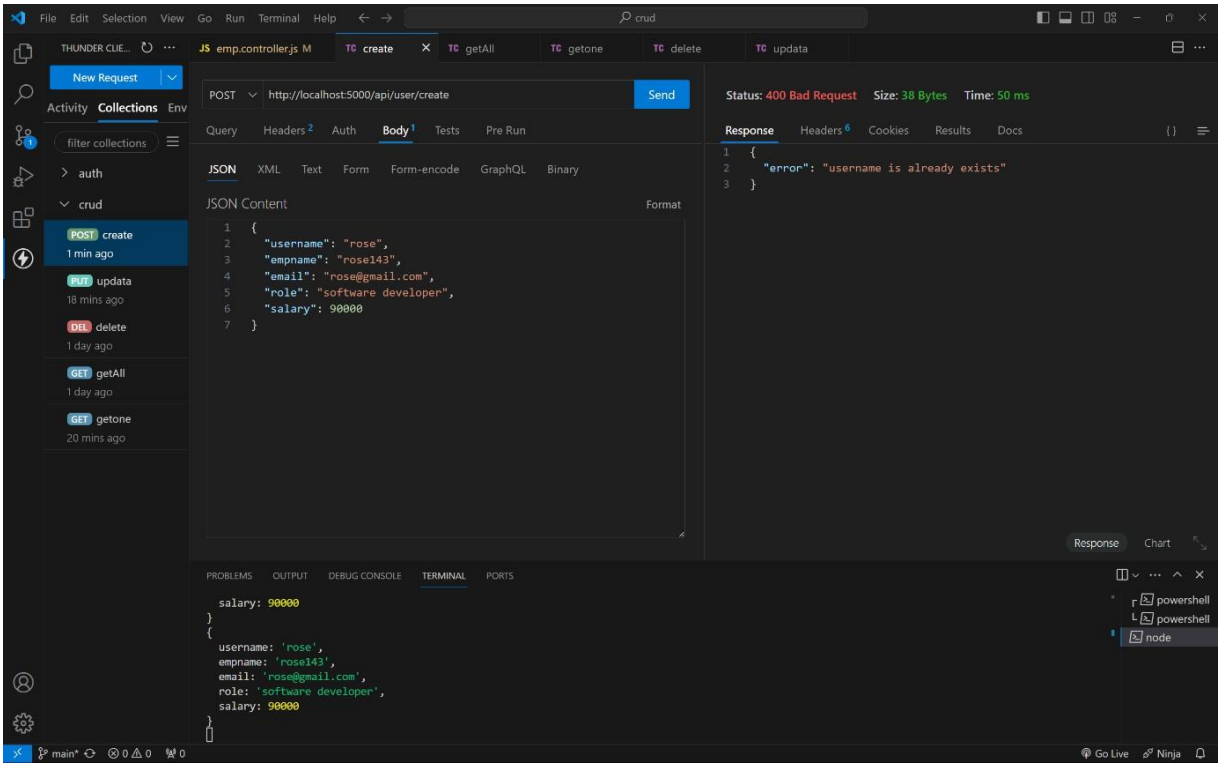
2. **After sending you will deleted successfully as response.**

OUTPUT :

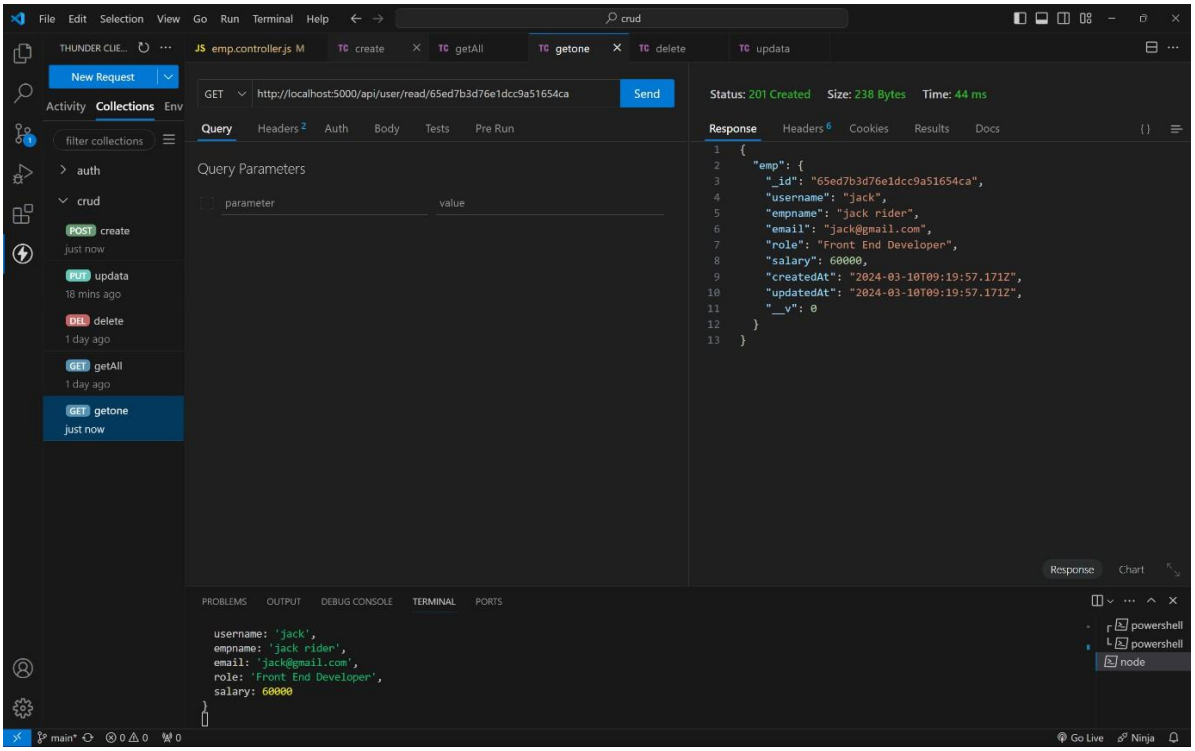
CREATE A NEW USER :



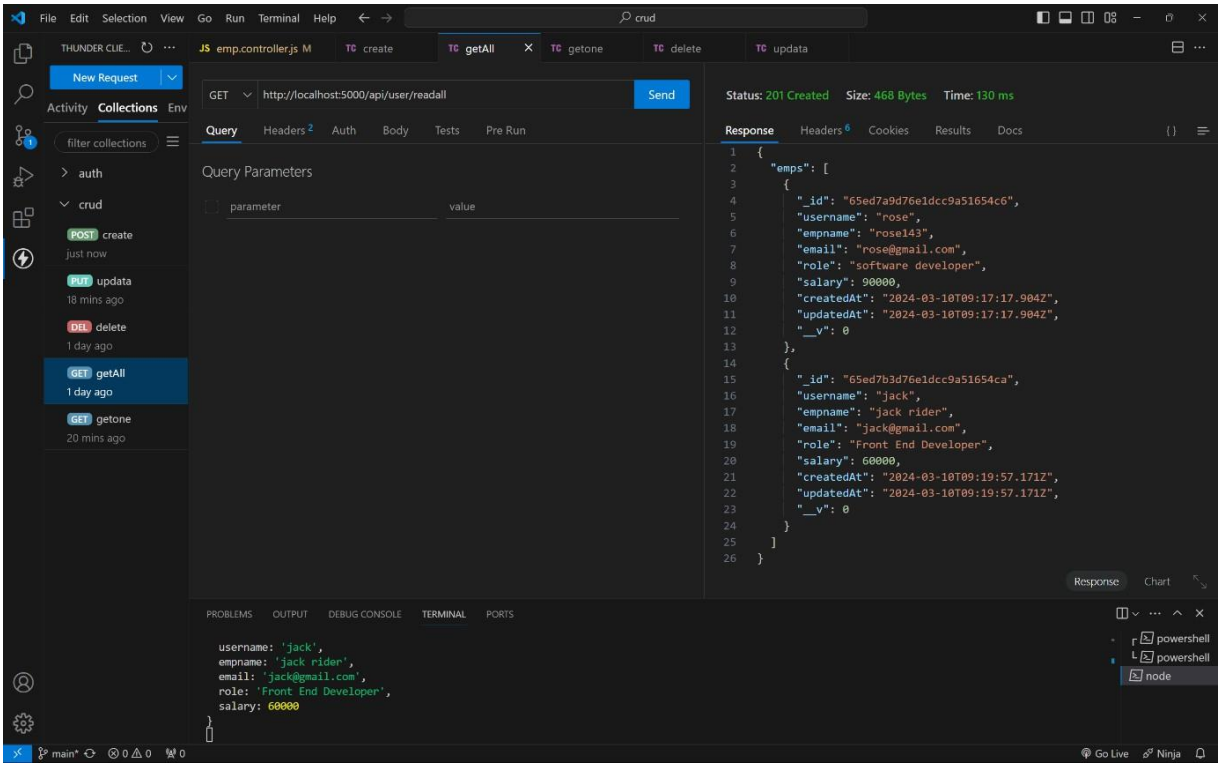
CREATING USER WITH EXISTING USERNAEM :



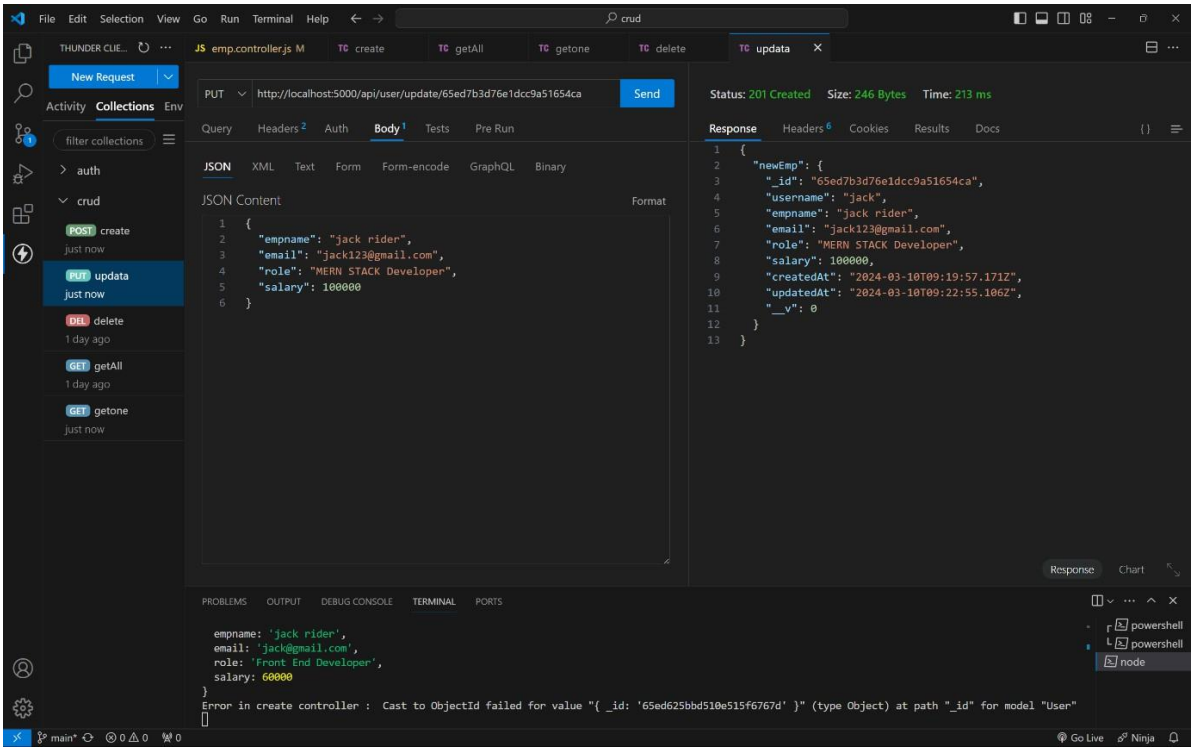
READONE :



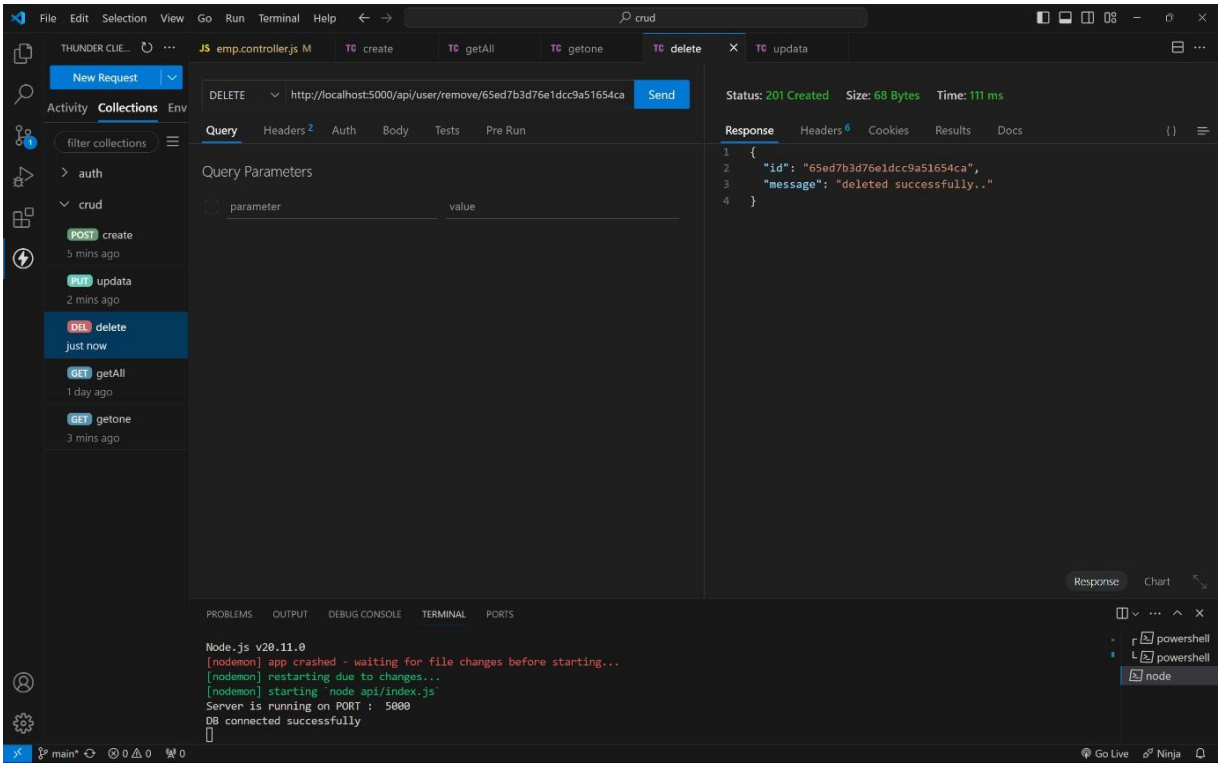
READ ALL :



UPDATE :



DELETE :


File Edit Selection View Go Run Terminal Help
crud
THUNDER CLIE...
JS emp.controller.js M
TC create
TC getAll
TC getone
TC delete
TC updata
New Request
Activity Collections Env
filter collections
auth
crud
POST create
5 mins ago
PUT updata
2 mins ago
DEL delete
just now
GET getAll
1 day ago
GET getone
3 mins ago
DELETE
http://localhost:5000/api/user/remove/65ed7b3d76e1dcc9a51654ca
Send
Query
Headers 2
Auth
Body
Tests
Pre Run
Query Parameters
parameter
value
Status: 201 Created
Size: 68 Bytes
Time: 111 ms
Response
Headers 6
Cookies
Results
Docs
{
"id": "65ed7b3d76e1dcc9a51654ca",
"message": "deleted successfully.."
}
Response
Chart
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
Node.js v20.11.0
[nodemon] app crashed - waiting for file changes before starting...
[nodemon] restarting due to changes...
[nodemon] starting `node api/index.js`
Server is running on PORT : 5000
DB connected successfully
powershell
powershell
node
main*
Go Live
Ninja