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

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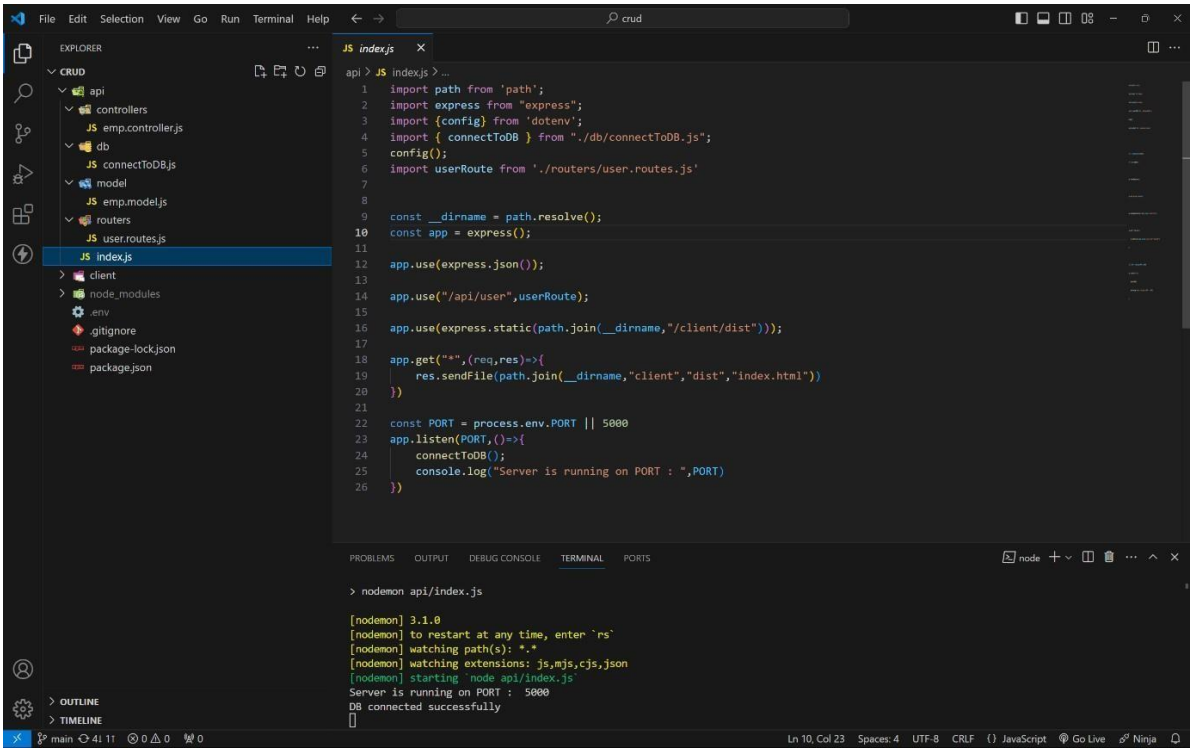
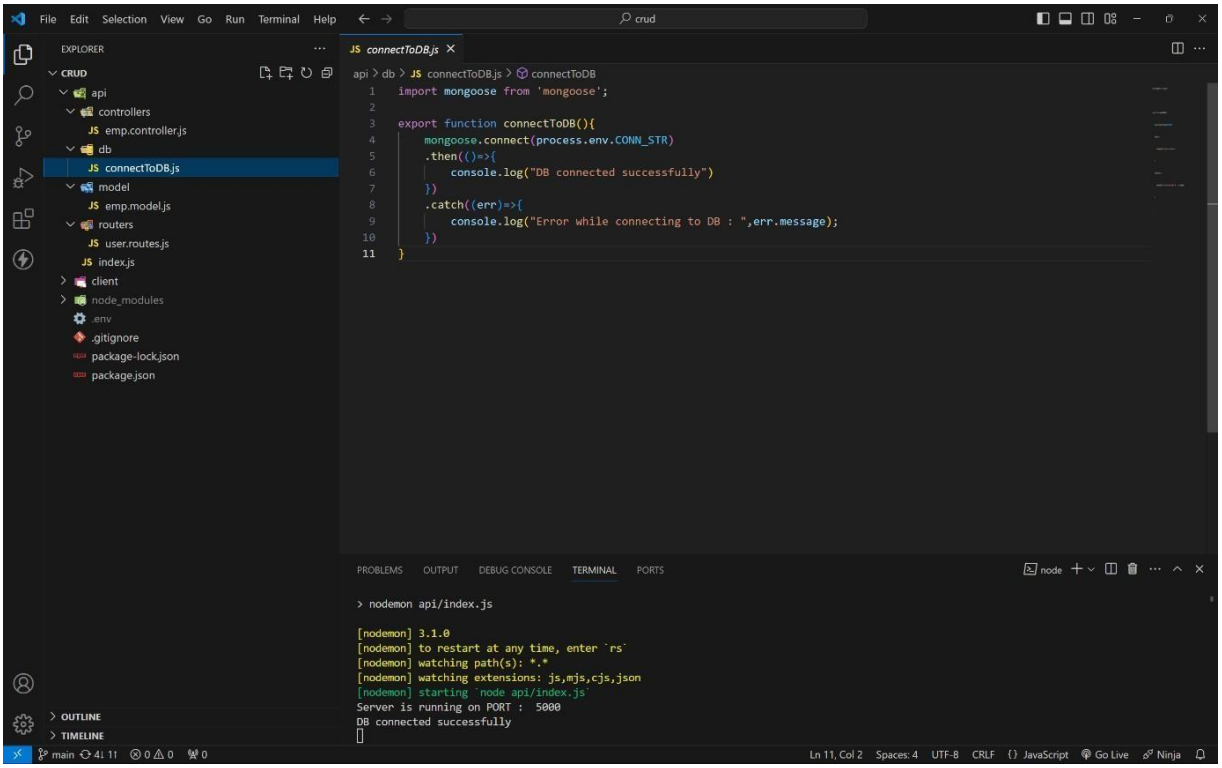
COLLEGE :- SRI VENKATESWARA COLLEGE OF ENGINEERING , KADAPA

source code :-

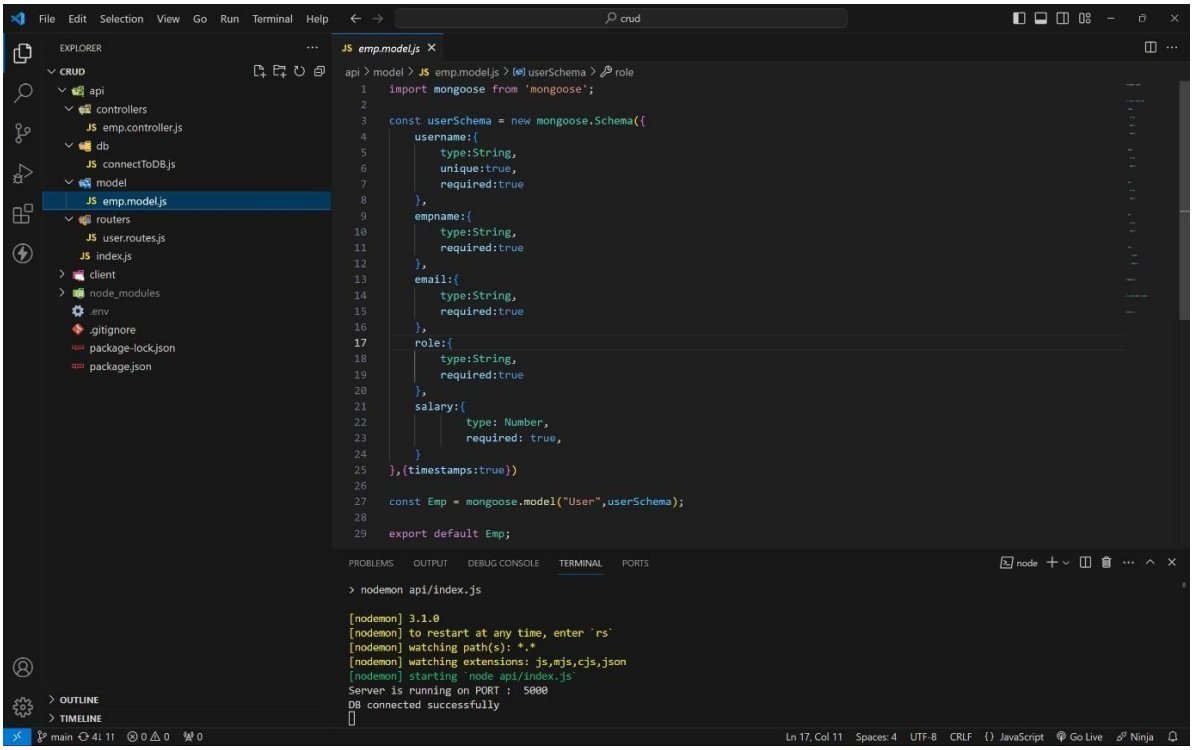
index.js file :



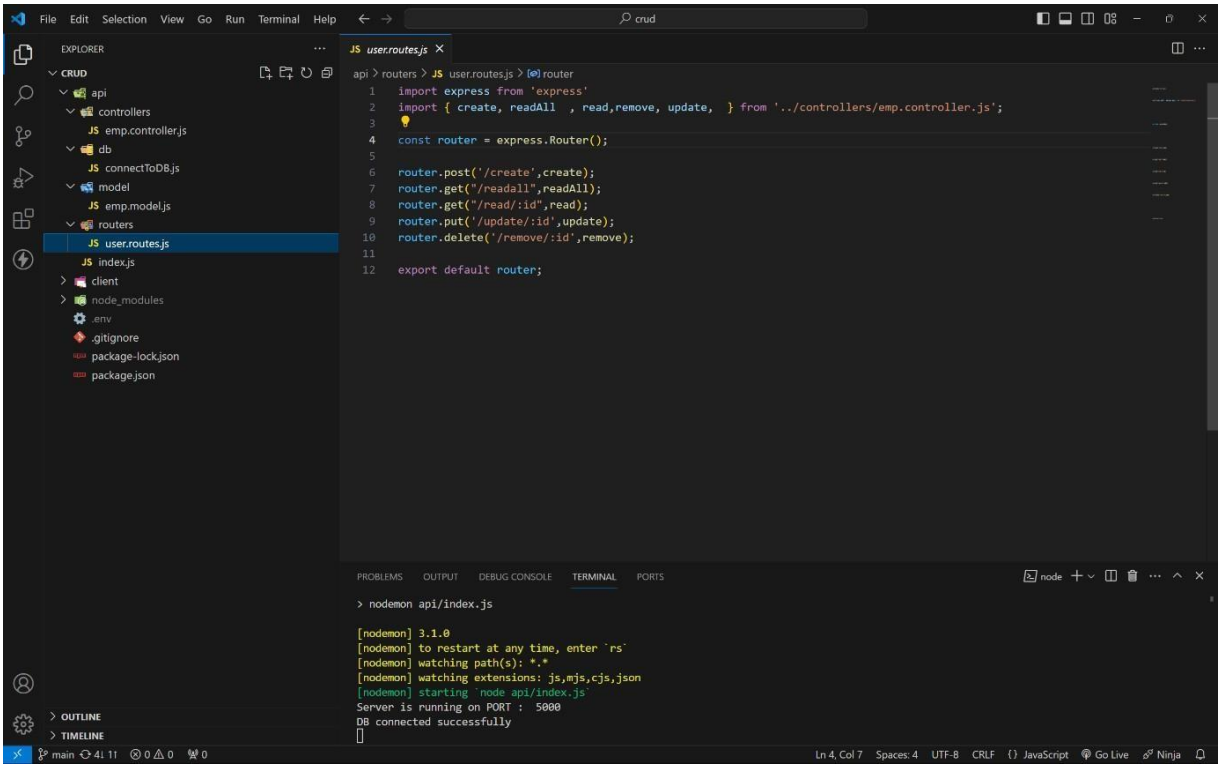
MONGODB CONNECTION :



MODEL :

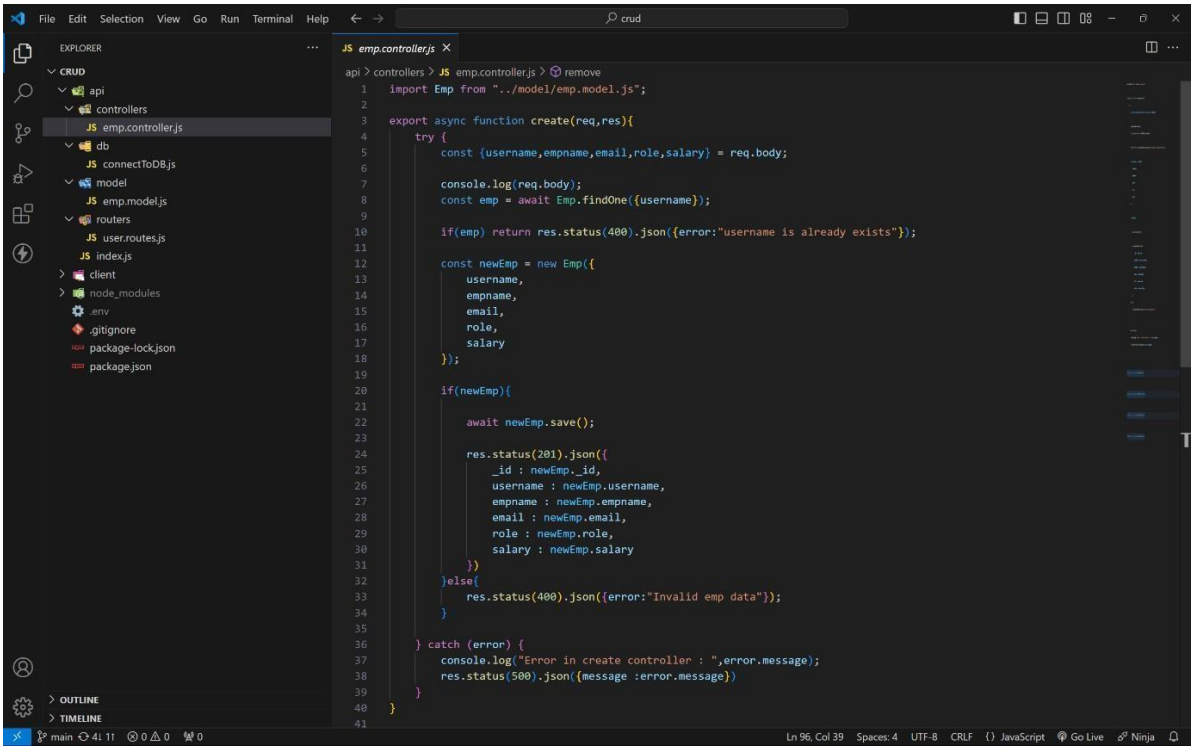


ROUTES:

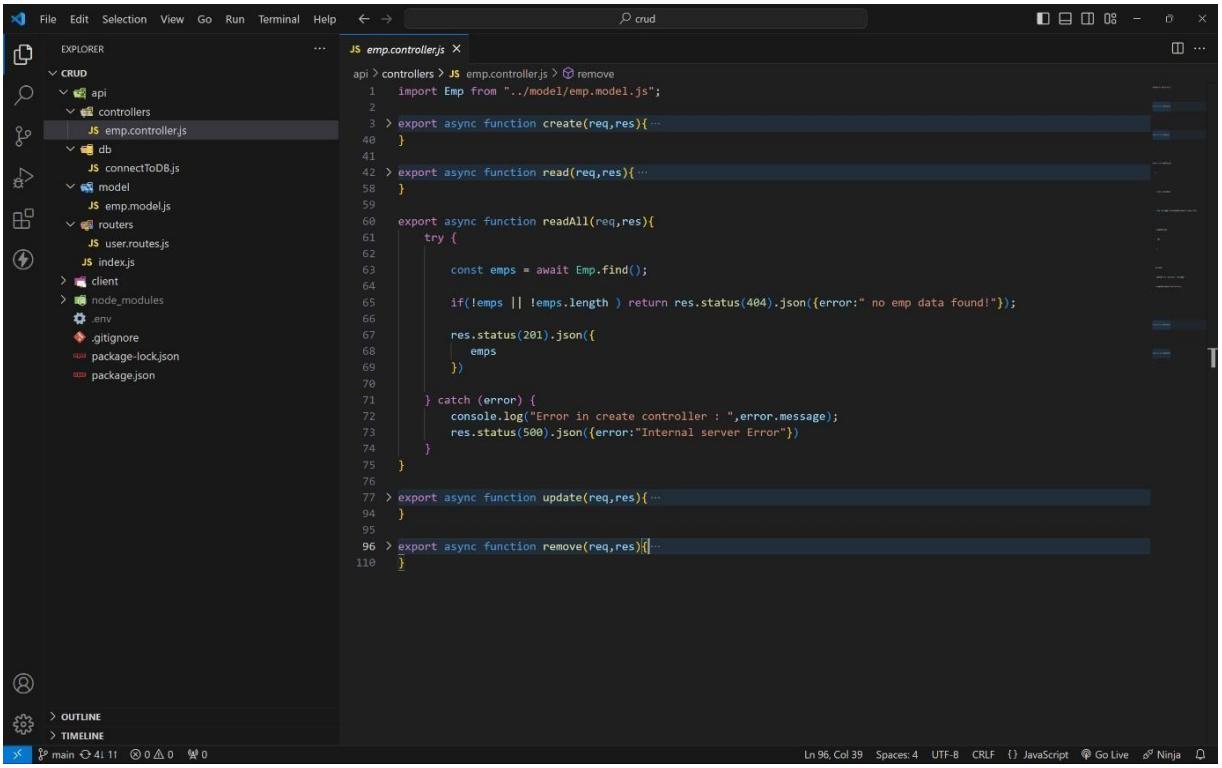


CONTROLLERS :

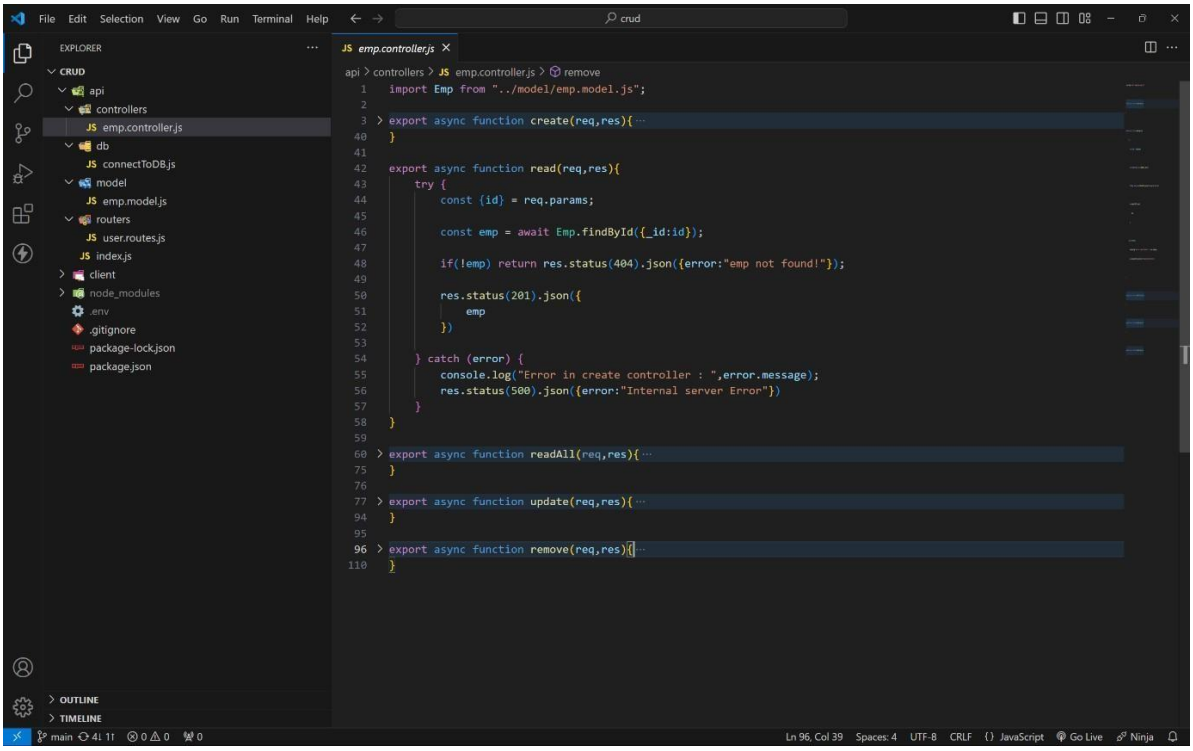
CREATE :



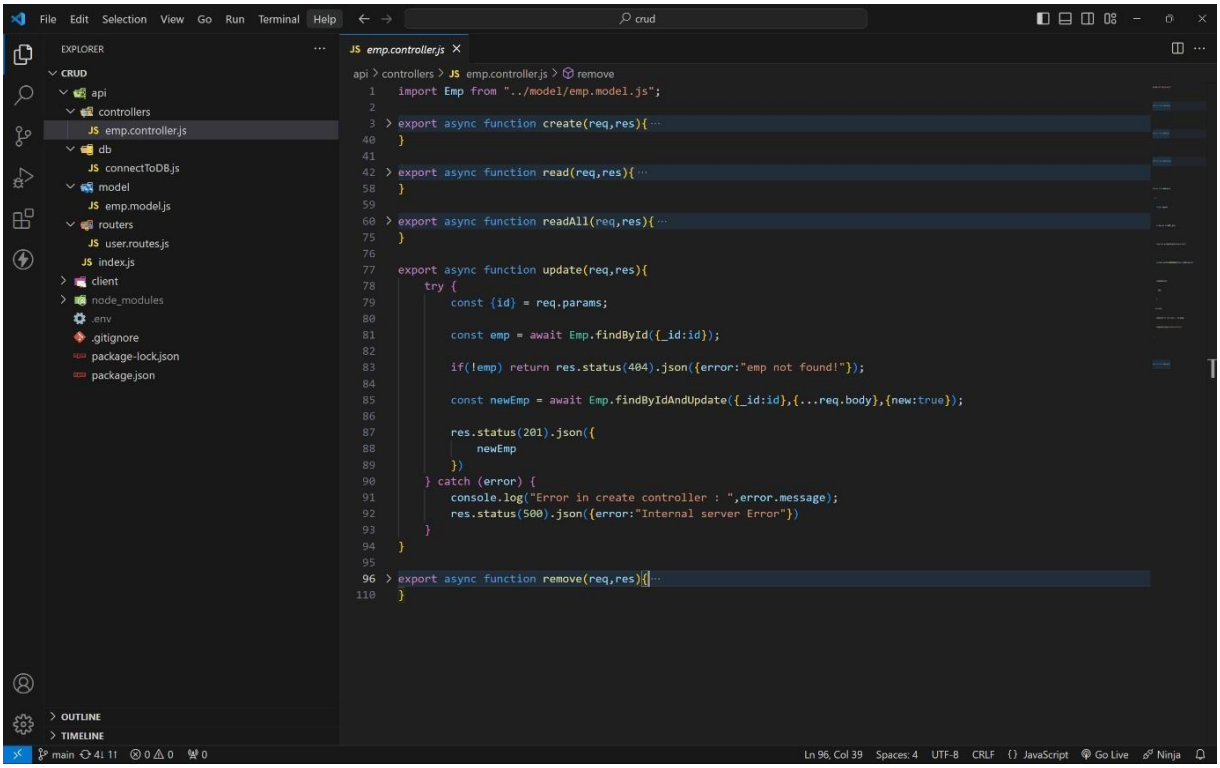
READALL:



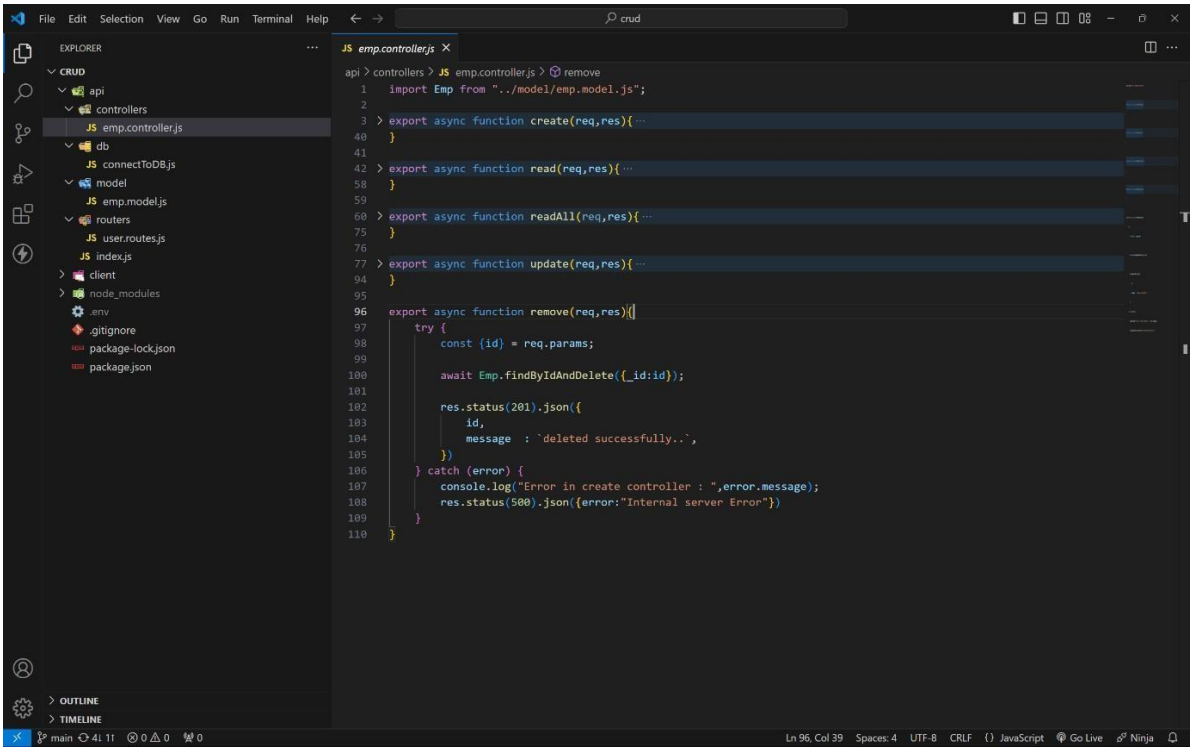
READONE :



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 . Type this code to get code locally.

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5 . Now move to crud folder (cd crud in terminal)

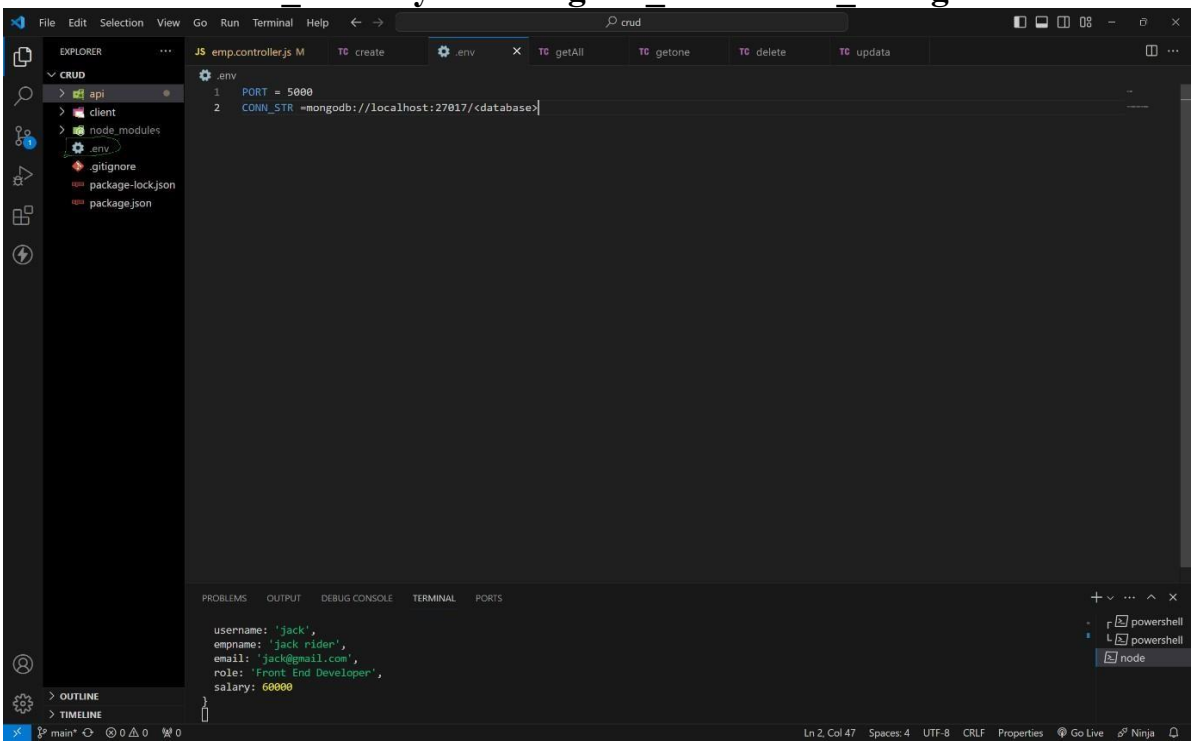
6 . Ignore client folder.

7 . Here crud is root folder.

8 . 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+srv://4727yesuraju:rough@cluster0.wbclvtg.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0

9 . 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)

10 . 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.

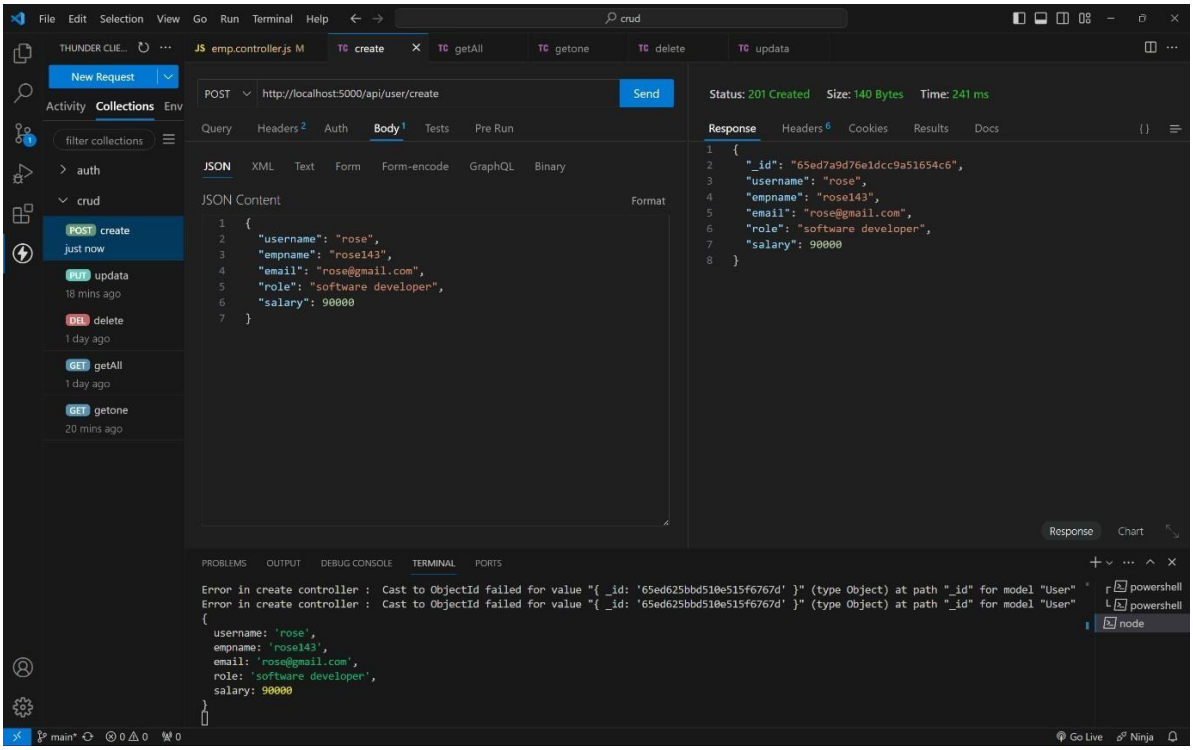
method as delete

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

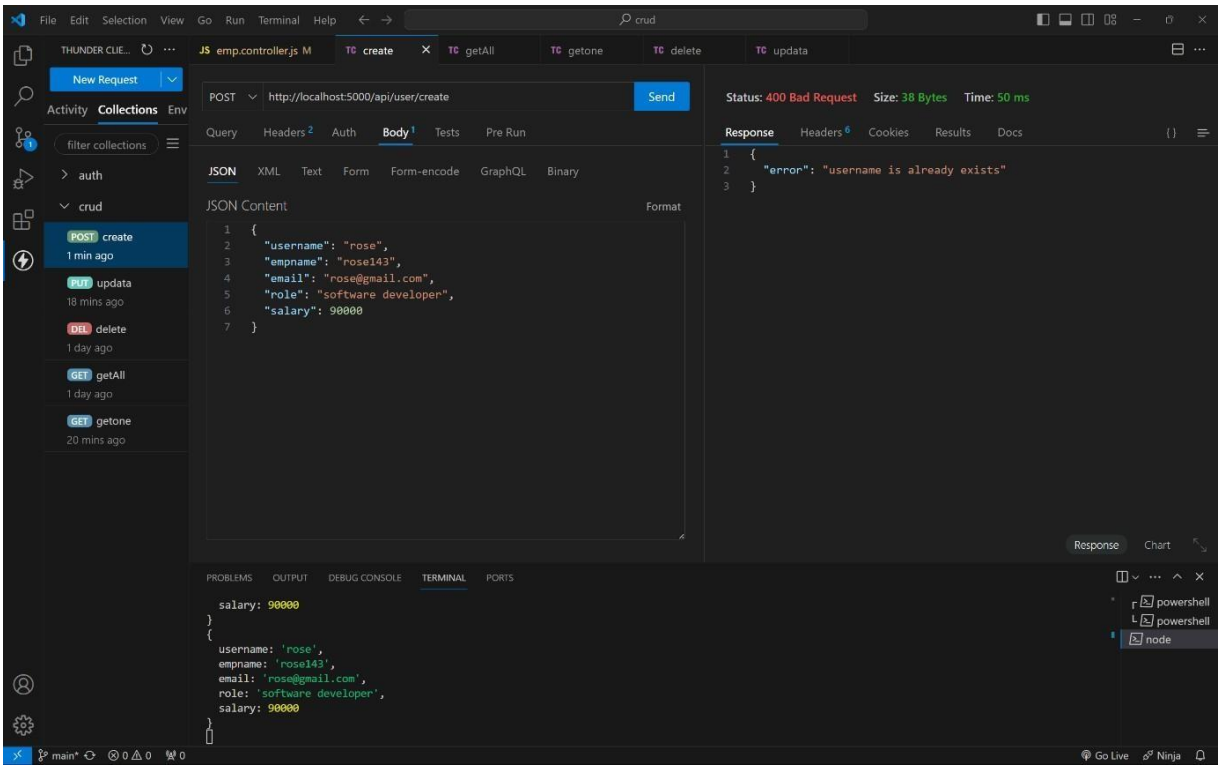
2 . After sending you will deleted successfully as response.

OUTPUT :

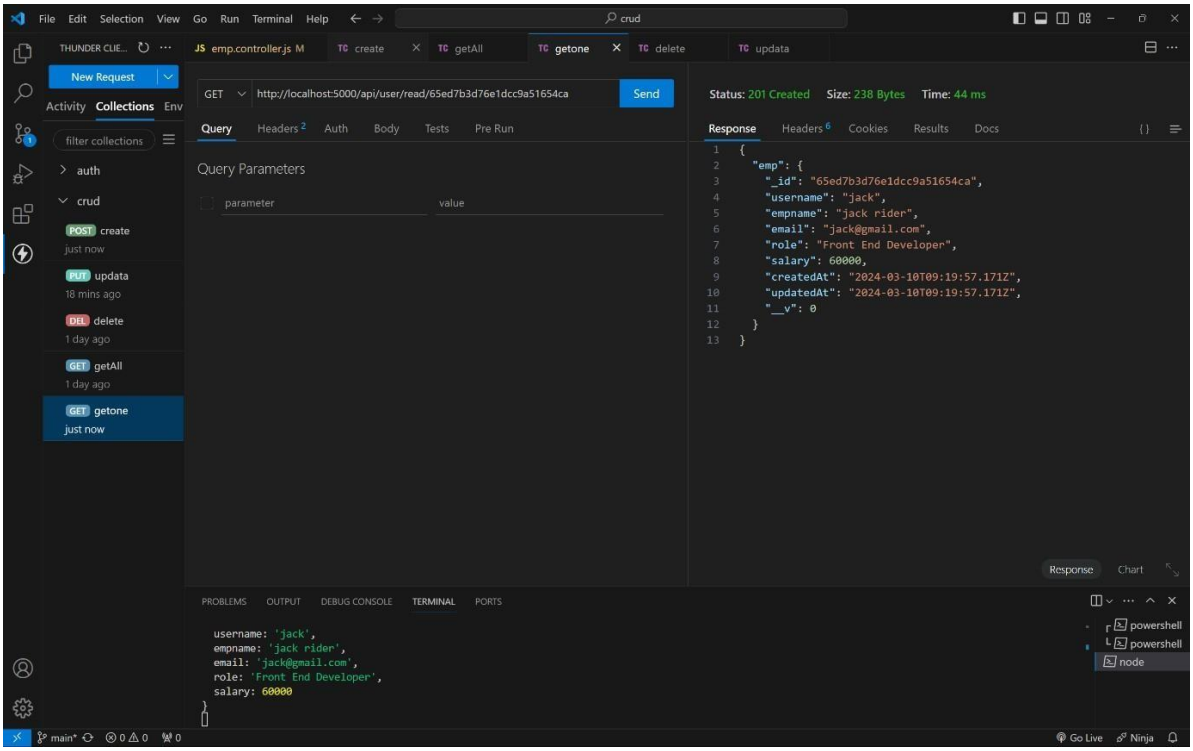
CREATE A NEW USER :



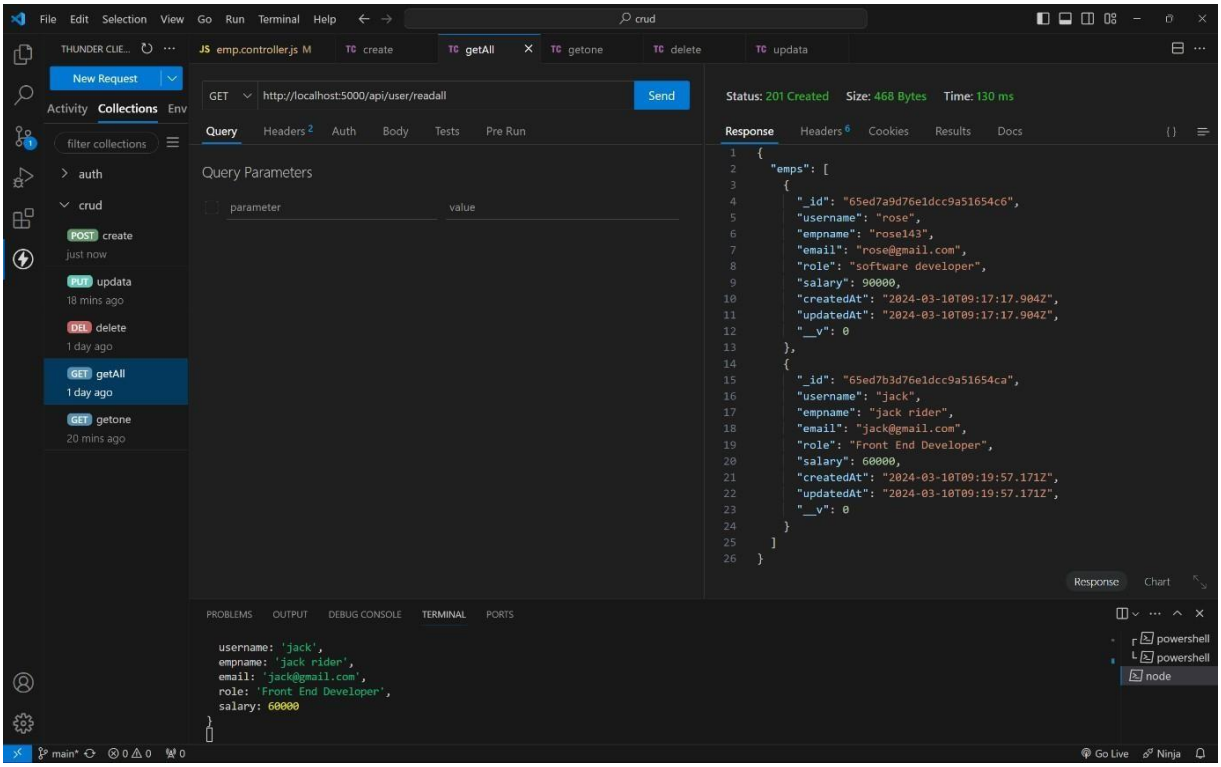
CREATING USER WITH EXISTING USERNAEM :



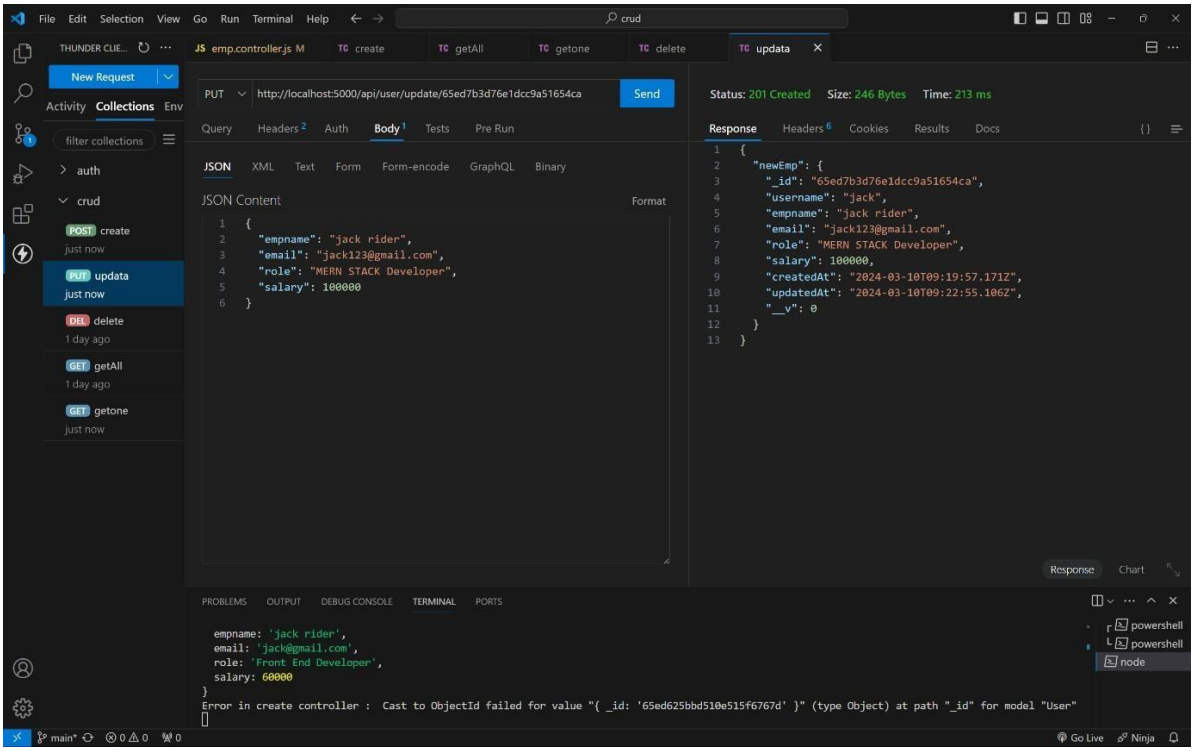
READONE :



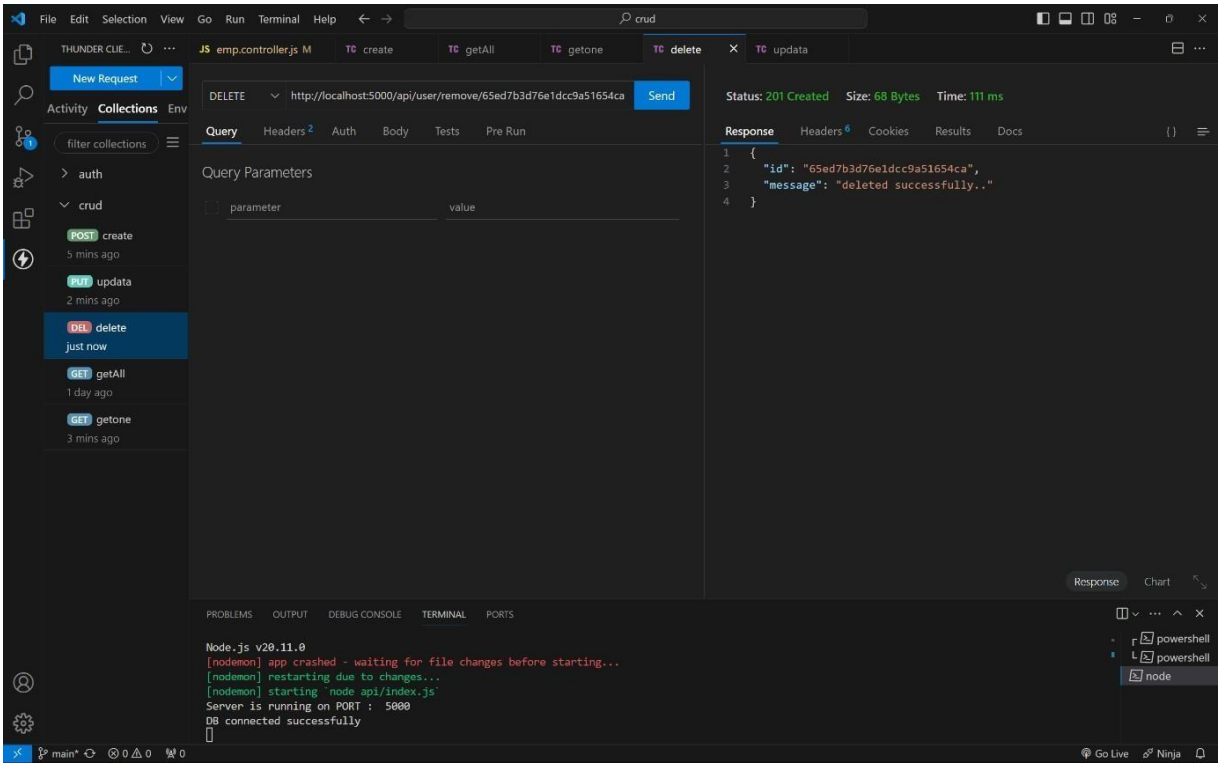
READ ALL :



UPDATE :



DELETE :



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