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

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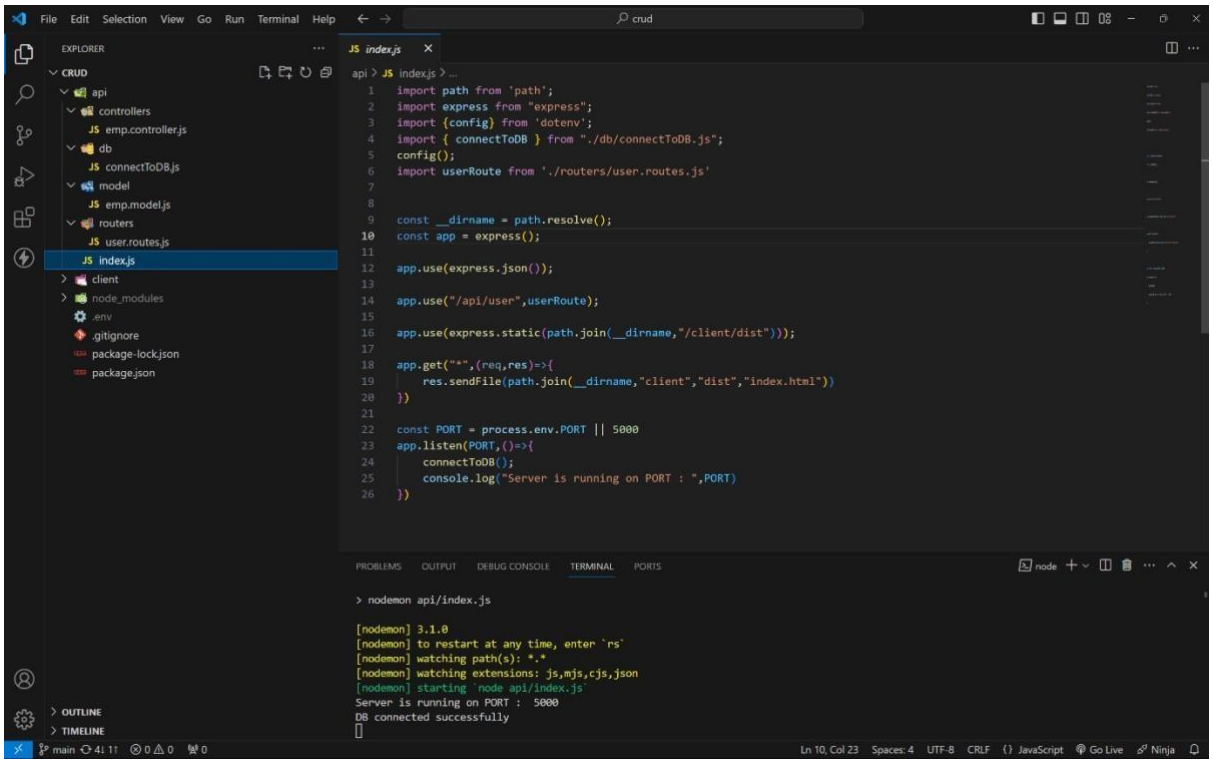
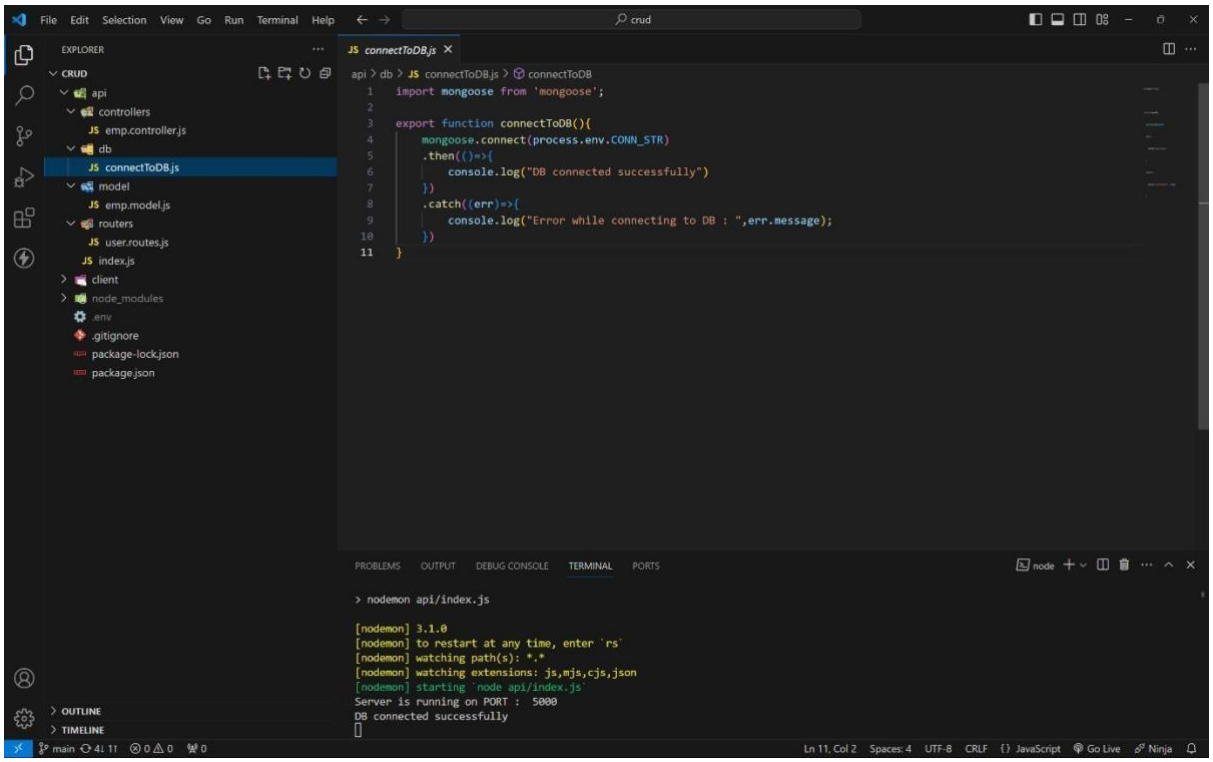
source code :

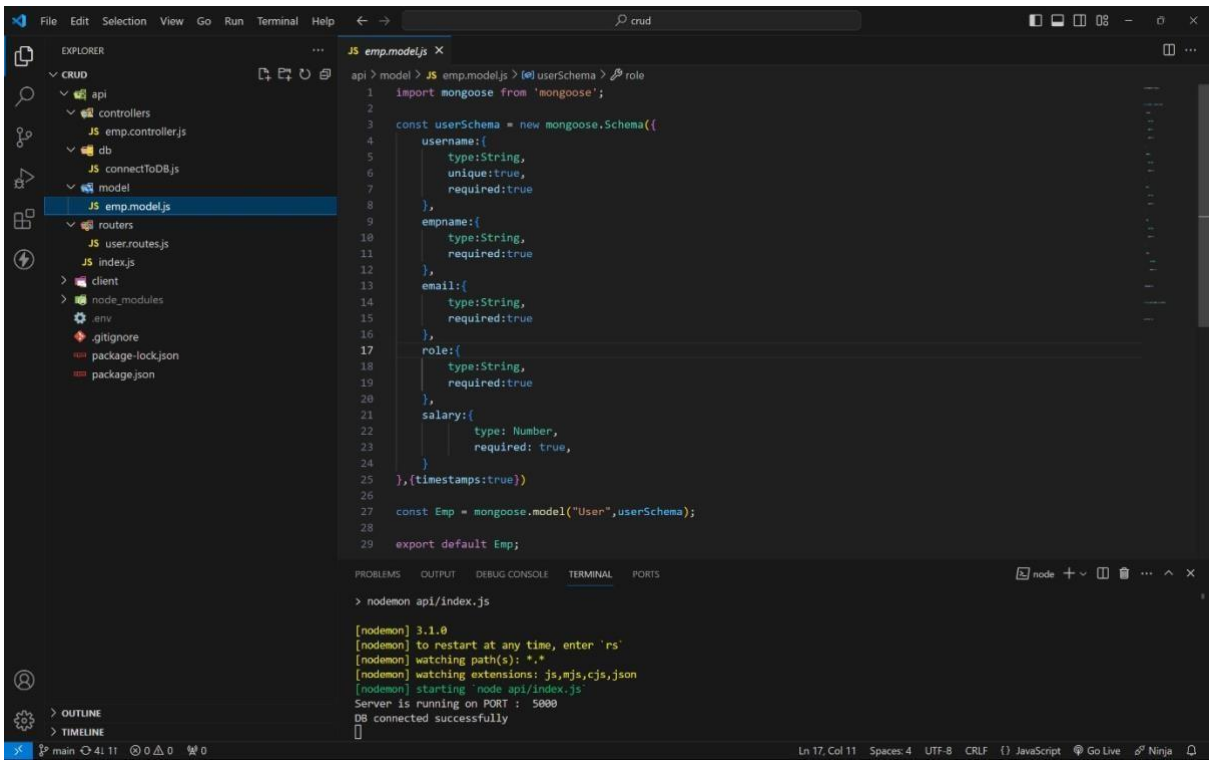
index.js file :



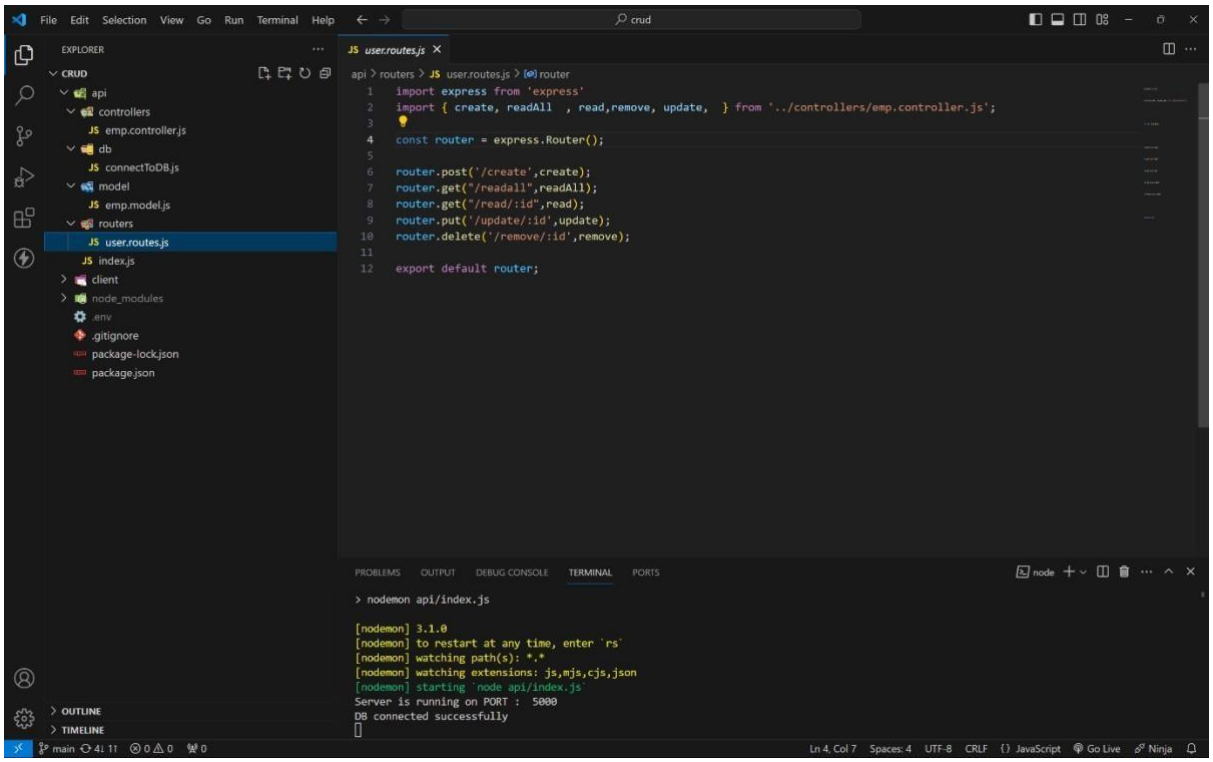
MONGODB CONNECTION :



MODEL :

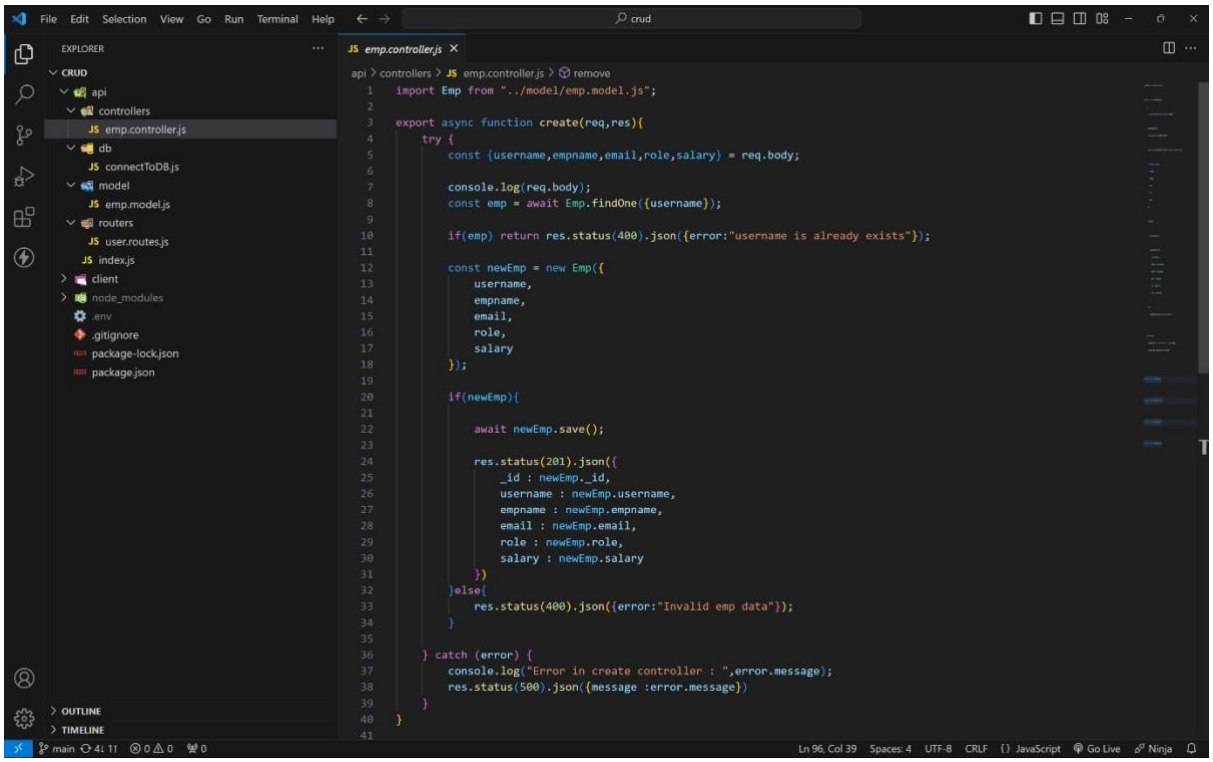


ROUTES:

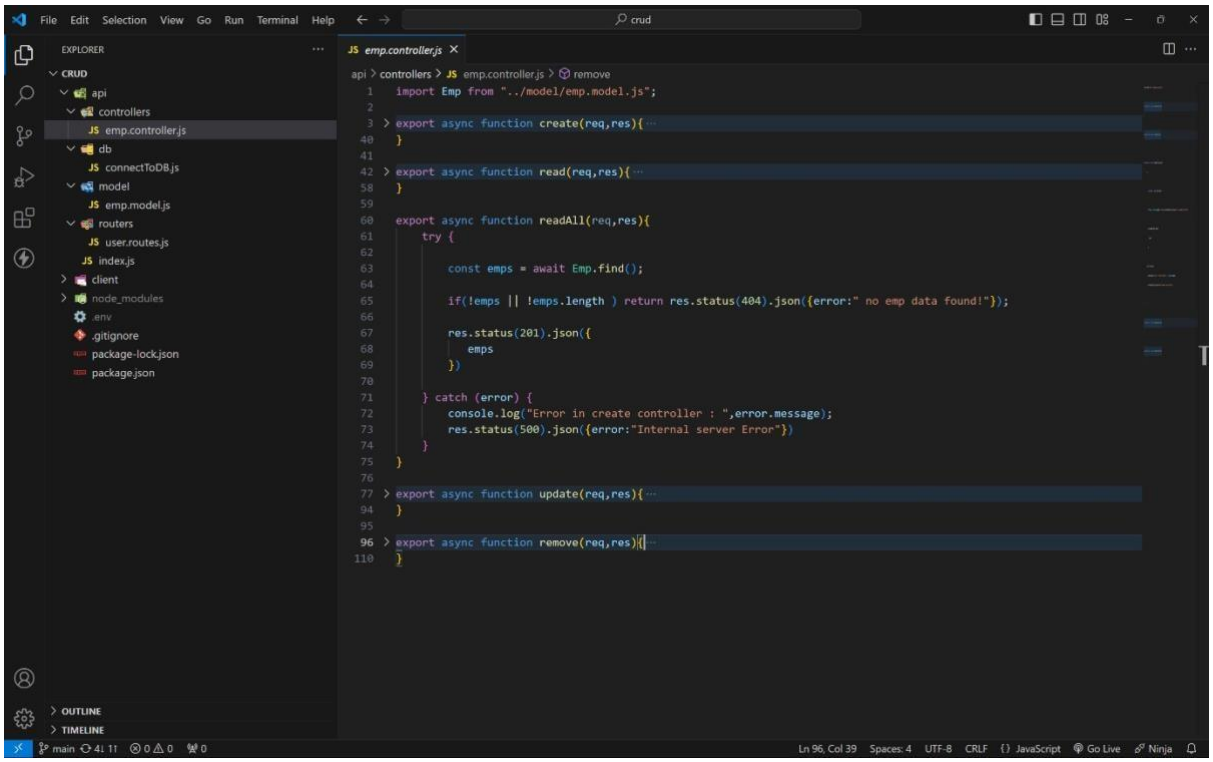


CONTROLLERS :

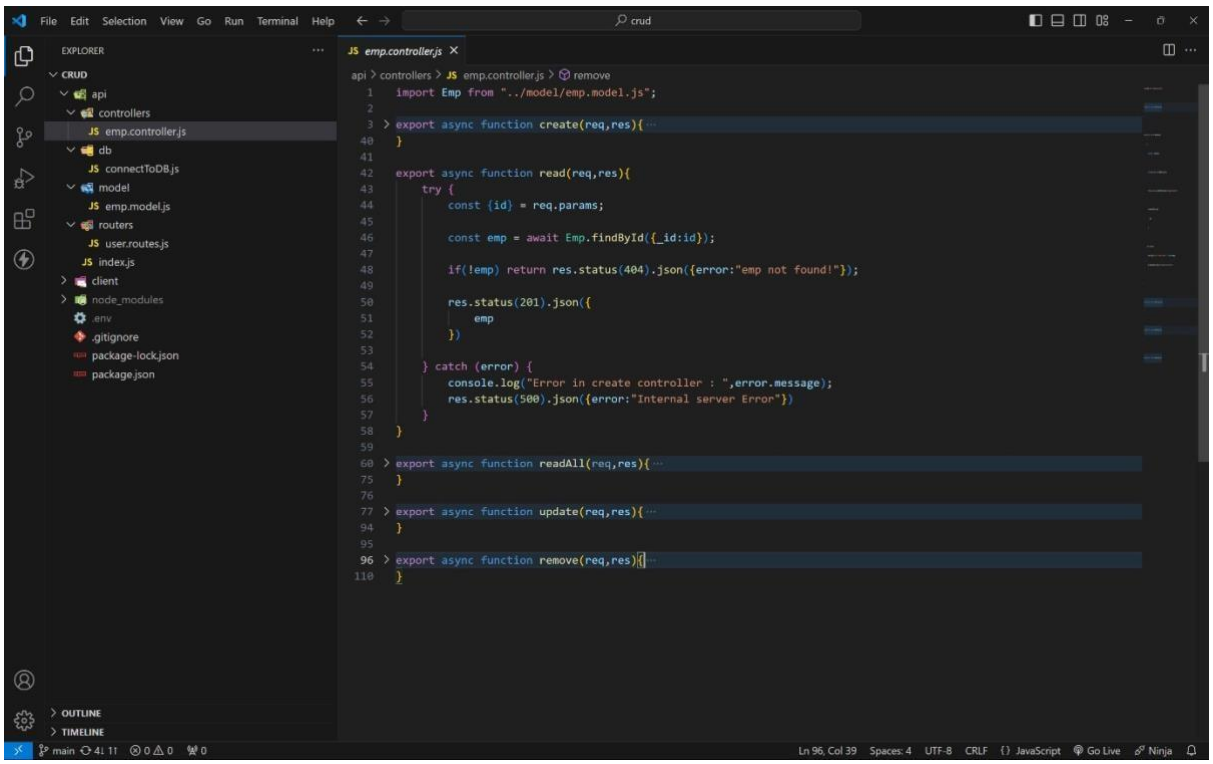
CREATE :



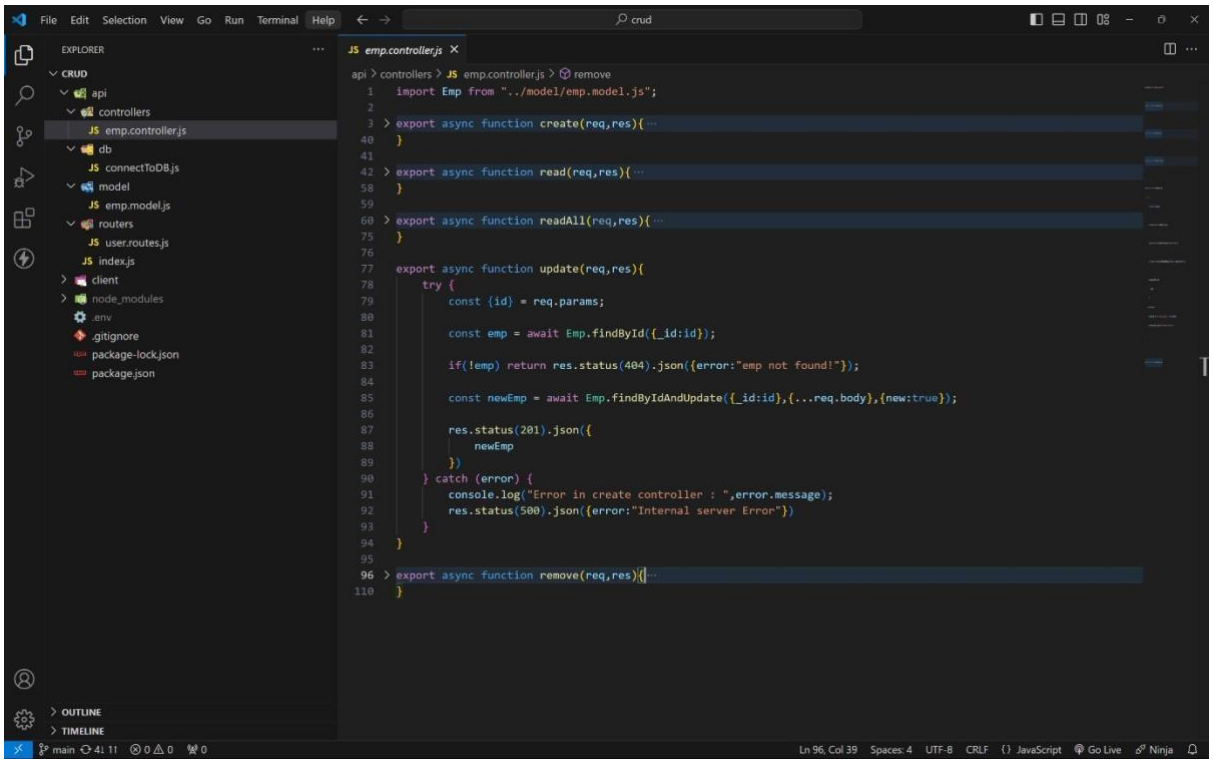
READALL:



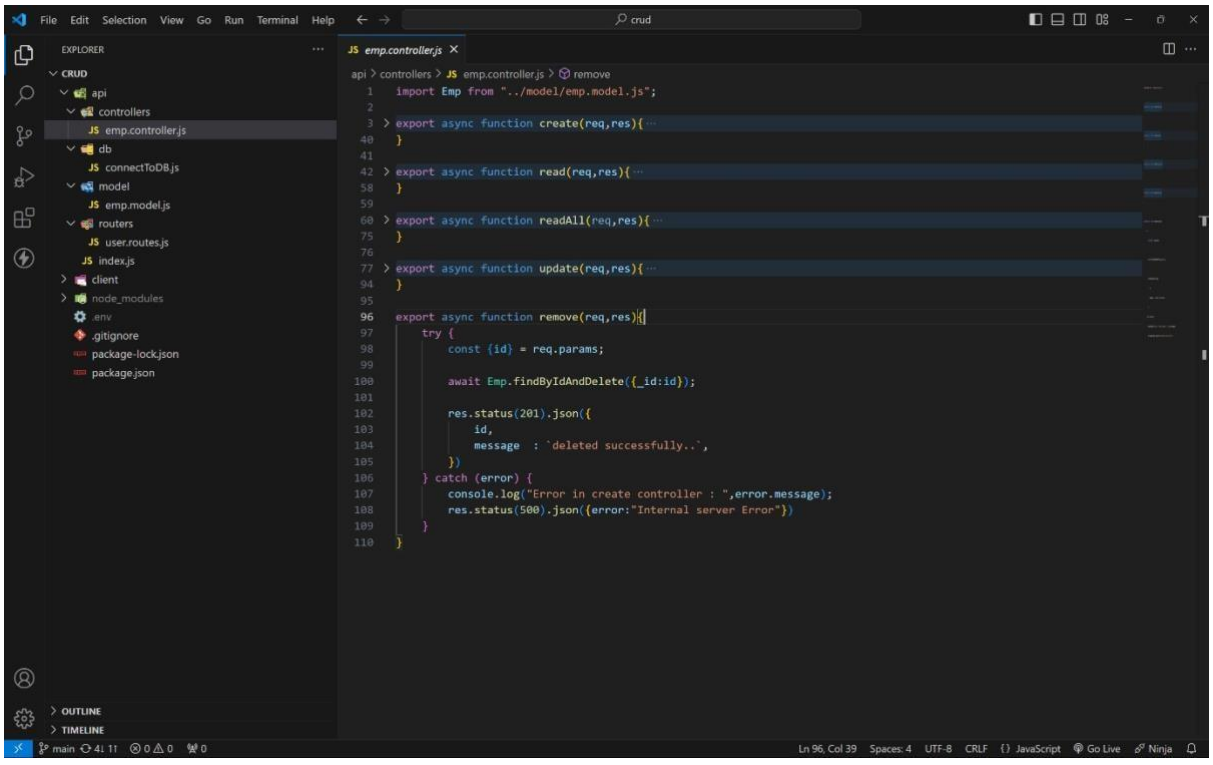
READONE :



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 . Type this code to get code locally. git clone https://github.com/karunasriv55 Now move to crud folder (cd crud in terminal)

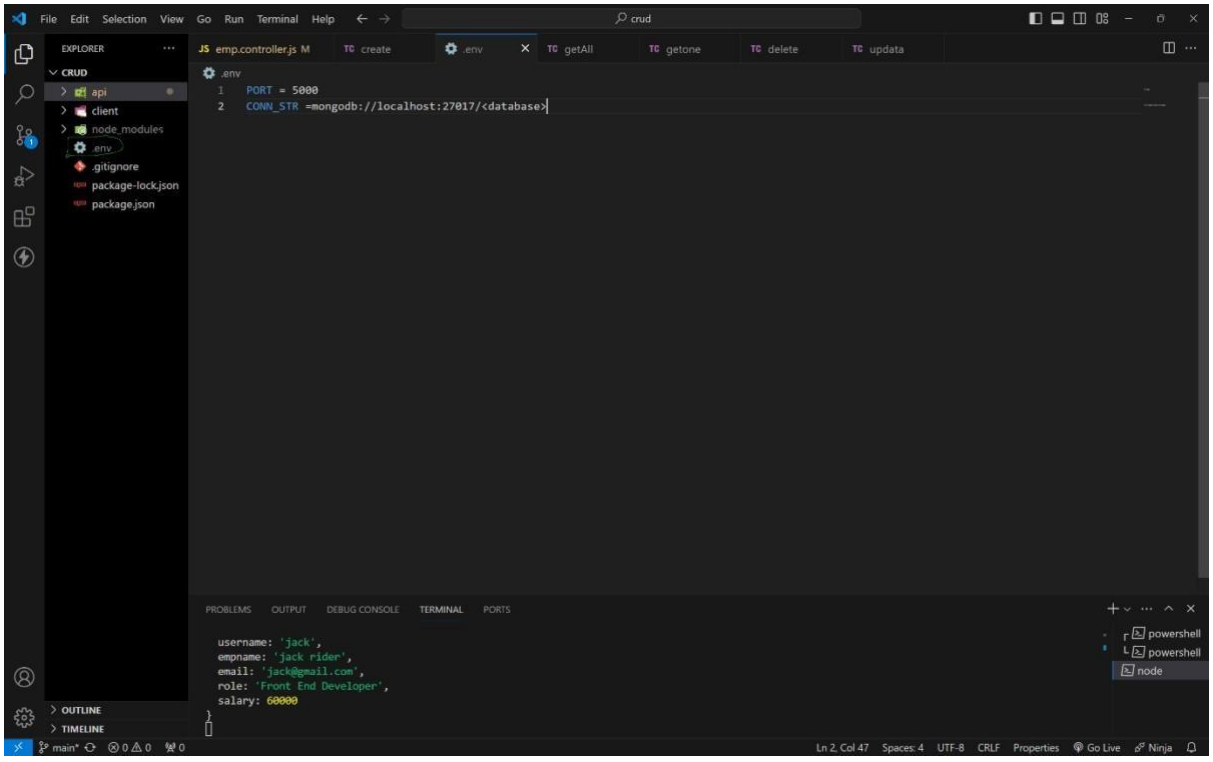
6 . Ignore client folder.

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

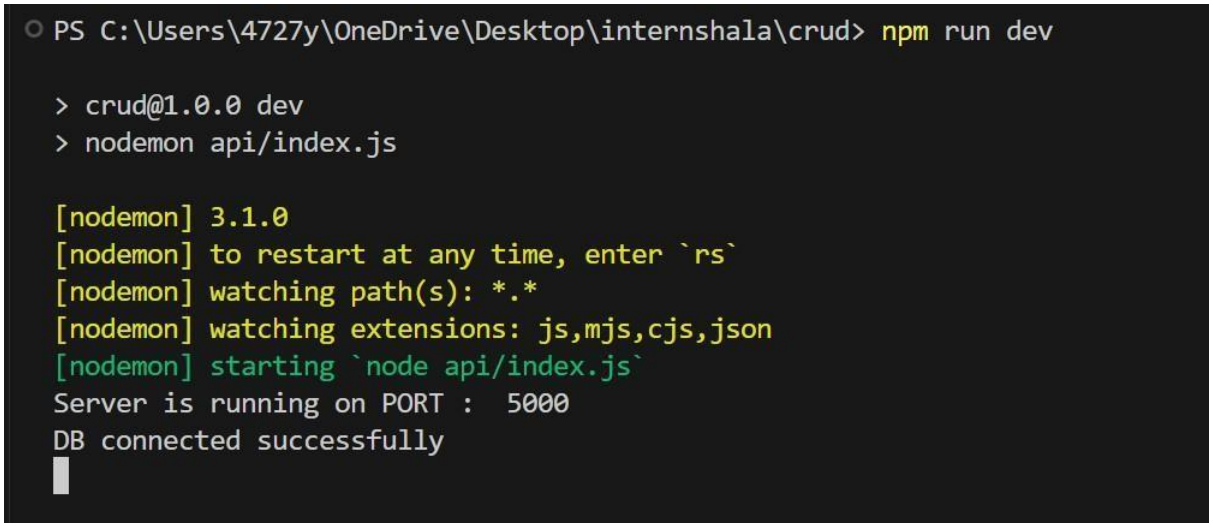
CONN_STR=mongodb+srv://4727yesuraju:rough@cluster0.wbclvtg.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0

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.



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 :

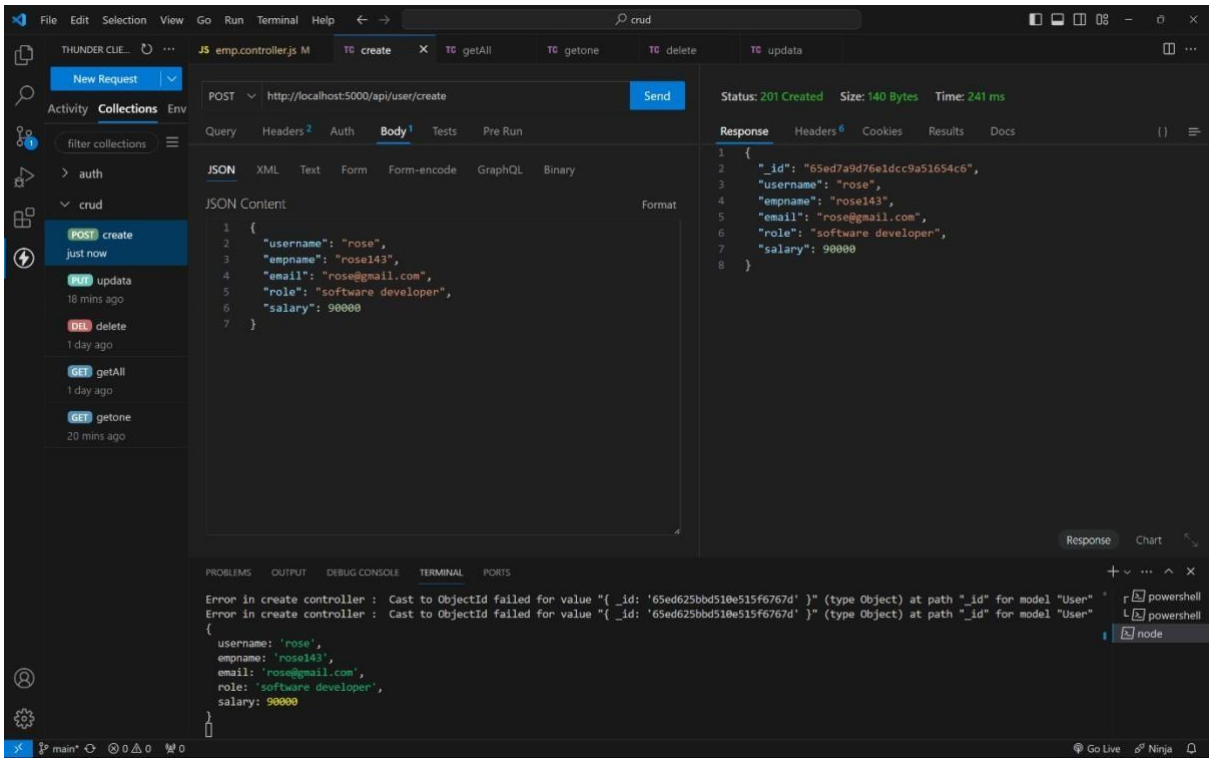
1 . This route is used to delete specific user by passing that user id as a param. method as delete

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

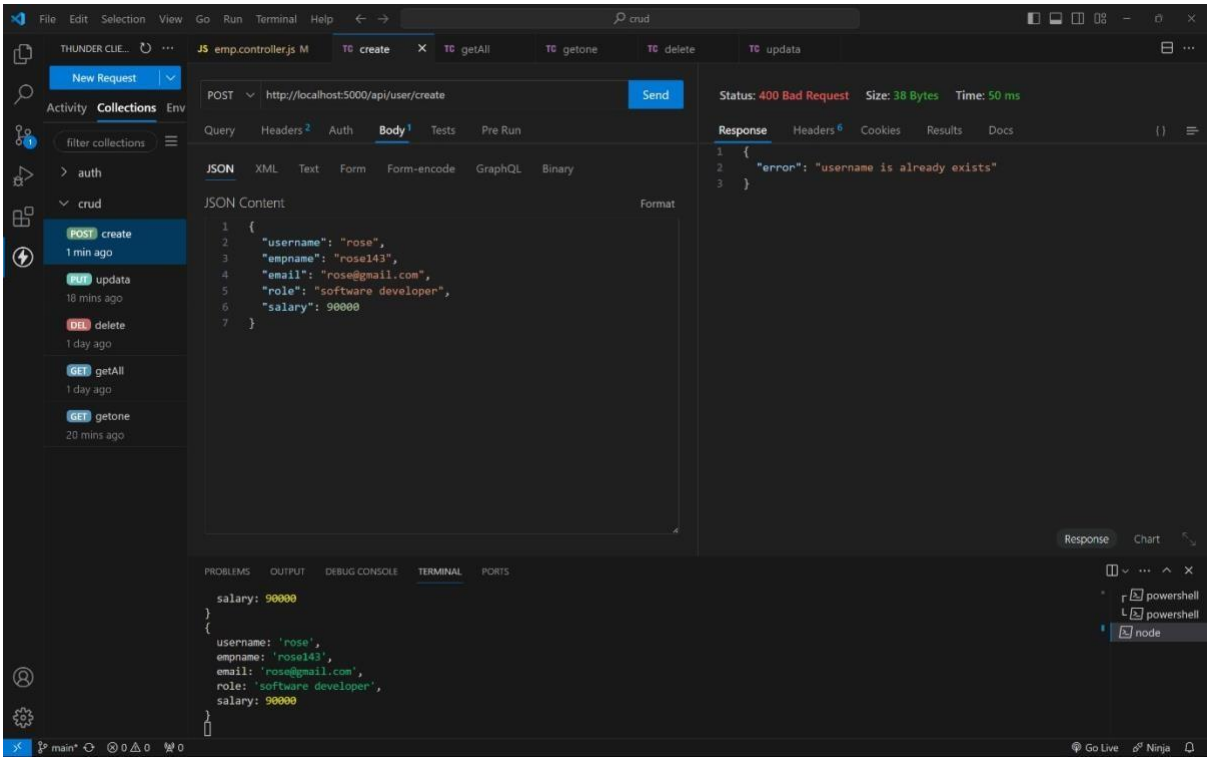
2 . After sending you will deleted successfully as response.

OUTPUT :

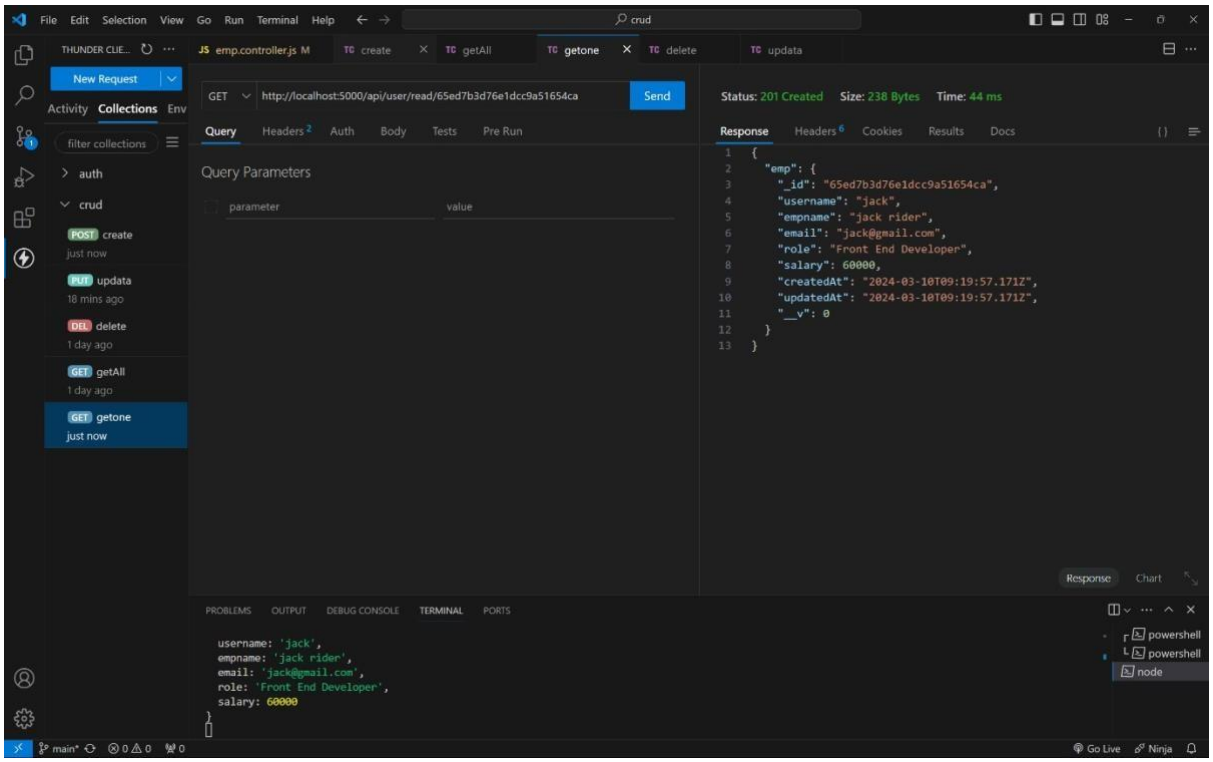
CREATE A NEW USER :



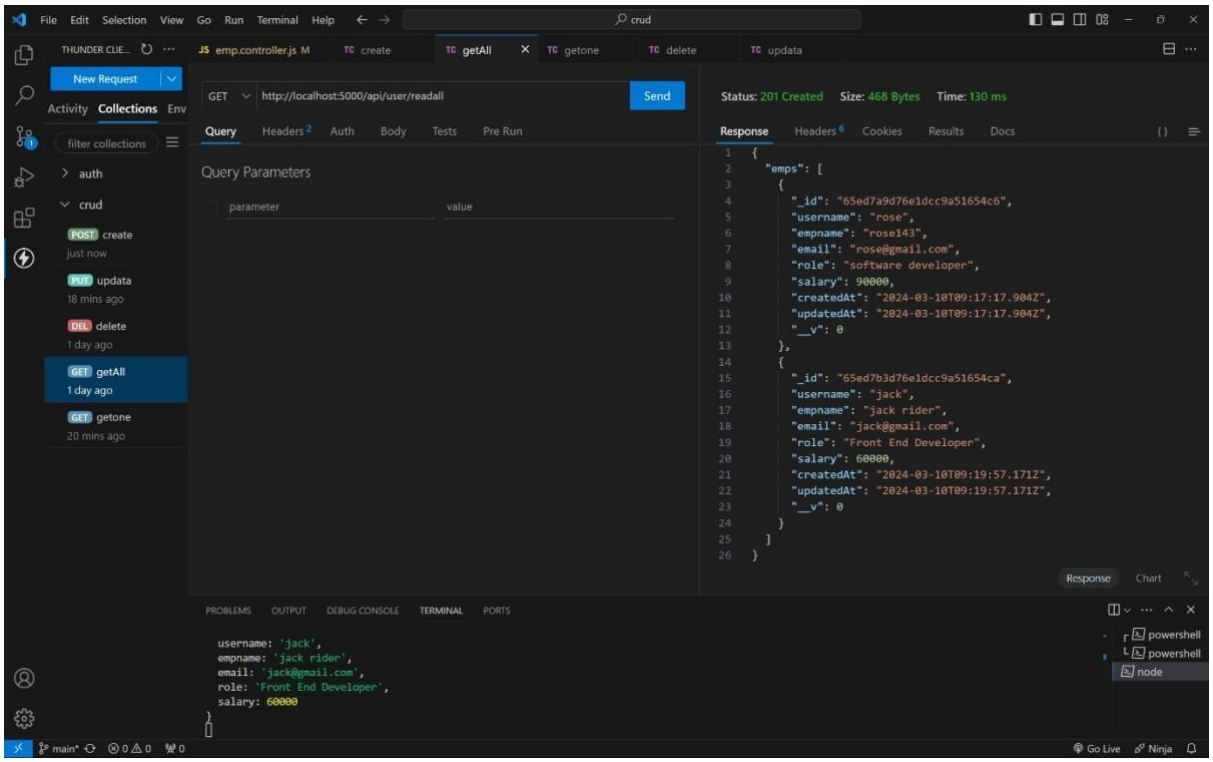
CREATING USER WITH EXISTING USERNAEM :



READONE :


File Edit Selection View Go Run Terminal Help
crud
THUNDER CLIE...
New Request
Activity Collections Env
filter collections
auth
crud
POST create
just now
PUT updata
18 mins ago
DEL delete
1 day ago
GET getAll
1 day ago
GET getone
just now
emp.controller.js M
create
getAll
getone
delete
updata
GET http://localhost:5000/api/user/read/65ed7b3d76e1dcc9a51654ca
Send
Query Headers 2 Auth Body Tests Pre Run
Query Parameters
parameter value
Status: 201 Created Size: 238 Bytes Time: 44 ms
Response Headers 6 Cookies Results Docs
{
"emp": {
"_id": "65ed7b3d76e1dcc9a51654ca",
"username": "jack",
"empname": "jack rider",
"email": "jack@gmail.com",
"role": "Front End Developer",
"salary": 60000,
"createdAt": "2024-03-10T09:19:57.171Z",
"updatedAt": "2024-03-10T09:19:57.171Z",
"__v": 0
}
}
Response Chart
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
username: 'jack',
empname: 'jack rider',
email: 'jack@gmail.com',
role: 'Front End Developer',
salary: 60000
}
powershell
powershell
node
main*
Go Live
Ninja

READ ALL :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20 mins ago
emp.controller.js M
create
getAll
getone
delete
updata
GET http://localhost:5000/api/user/readall
Send
Query Headers 2 Auth Body Tests Pre Run
Query Parameters
parameter value
Status: 201 Created Size: 468 Bytes Time: 130 ms
Response Headers 6 Cookies Results Docs
{
"emps": [
{
"_id": "65ed7a9d76e1dcc9a51654c6",
"username": "rose",
"empname": "rose143",
"email": "rose@gmail.com",
"role": "software developer",
"salary": 90000,
"createdAt": "2024-03-10T09:17:17.904Z",
"updatedAt": "2024-03-10T09:17:17.904Z",
"__v": 0
},
{
"_id": "65ed7b3d76e1dcc9a51654ca",
"username": "jack",
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"email": "jack@gmail.com",
"role": "Front End Developer",
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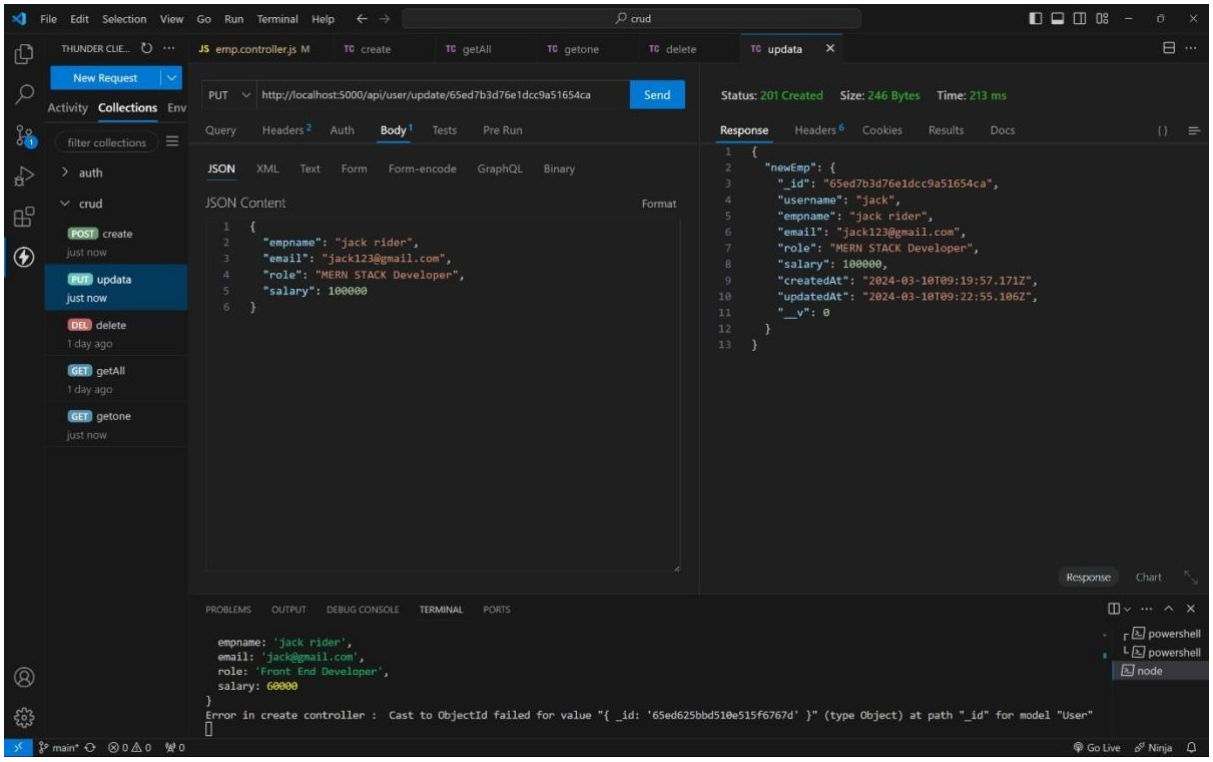
UPDATE :



DELETE :