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

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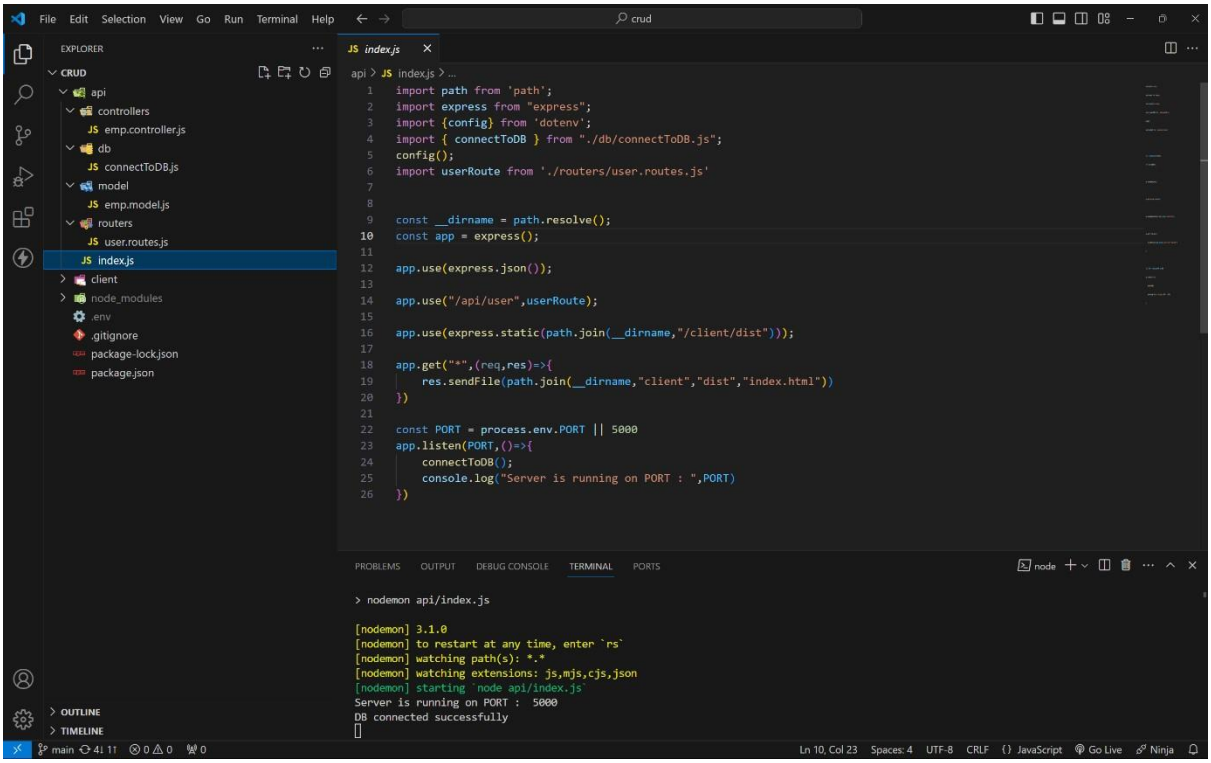
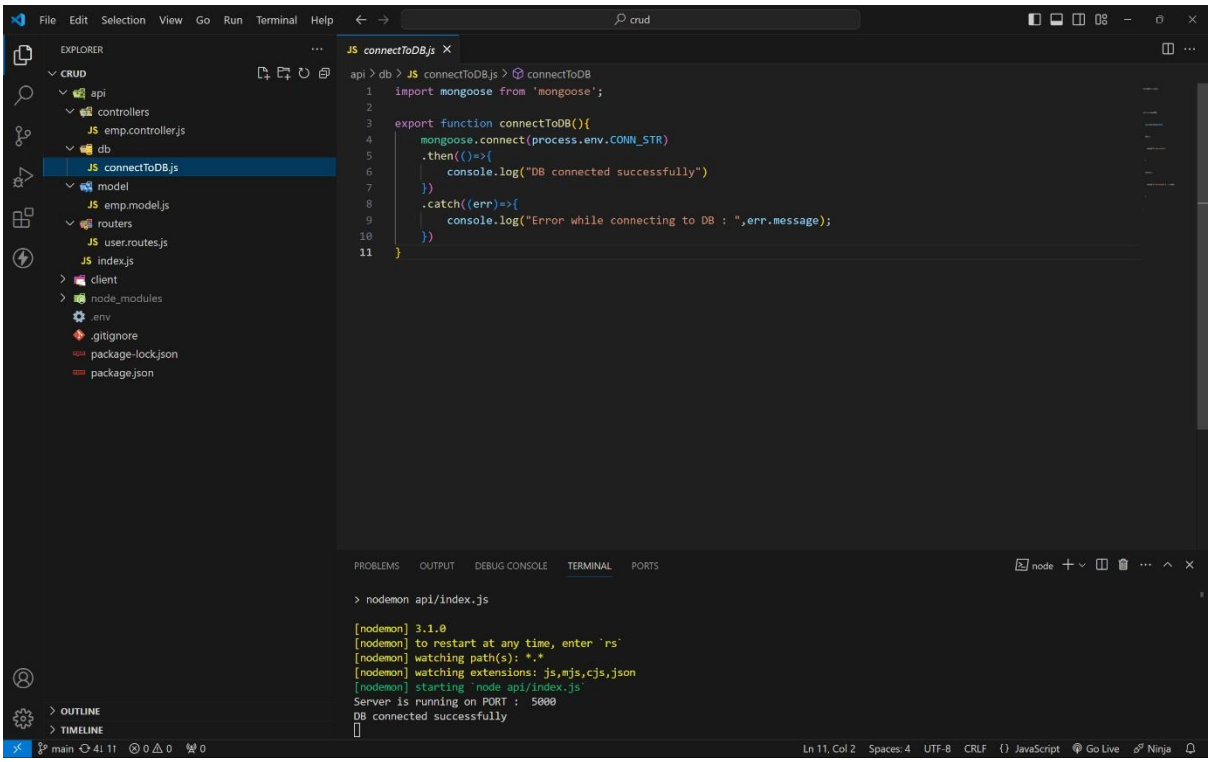
College Name: Kallam Haranadhareddy Institute Of Technology

source code :

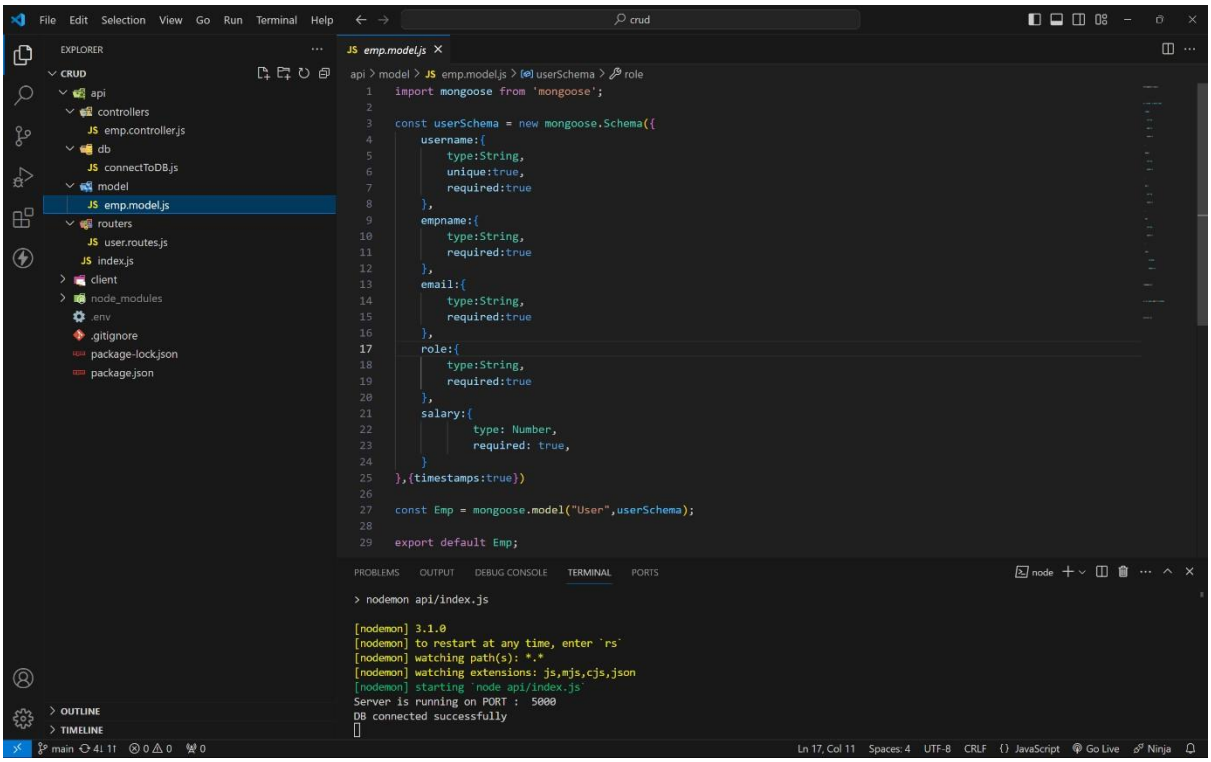
index.js file :



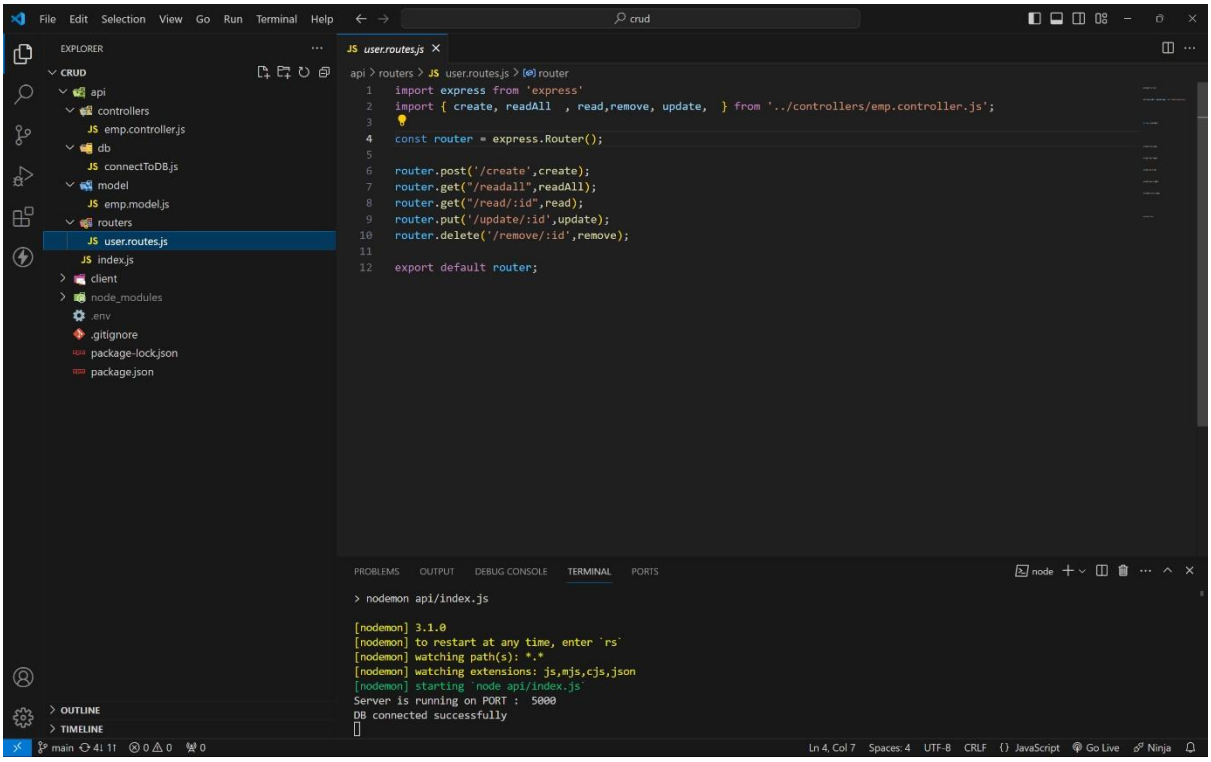
MONGODB CONNECTION :



MODEL :


File Edit Selection View Go Run Terminal Help
crud
EXPLORER
CRUD
api
controllers
emp.controller.js
db
connectToDB.js
model
emp.model.js
routers
user.routes.js
index.js
client
node_modules
.env
.gitignore
package-lock.json
package.json
emp.model.js
api > model > emp.model.js > userSchema > role
import mongoose from 'mongoose';
const userSchema = new mongoose.Schema({
username:{
type:String,
unique:true,
required:true
},
empname:{
type:String,
required:true
},
email:{
type:String,
required:true
},
role:{
type:String,
required:true
},
salary:{
type: Number,
required: true,
}
},{timestamps:true})
const Emp = mongoose.model("User",userSchema);
export default Emp;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
node
> 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
OUTLINE
TIMELINE
main
Ln 17, Col 11
Spaces: 4
UTF-8
CRLF
JavaScript
Go Live
Ninja

ROUTES: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node_modules
.env
.gitignore
package-lock.json
package.json
user.routes.js
api > routers > user.routes.js > router
import express from 'express'
import { create, readAll , read,remove, update, } from '../controllers/emp.controller.js';
const router = express.Router();
router.post('/create',create);
router.get("/readall",readAll);
router.get("/read/:id",read);
router.put('/update/:id',update);
router.delete('/remove/:id',remove);
export default router;
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
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[nodemon] to restart at any time, enter `rs`
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main
Ln 4, Col 7
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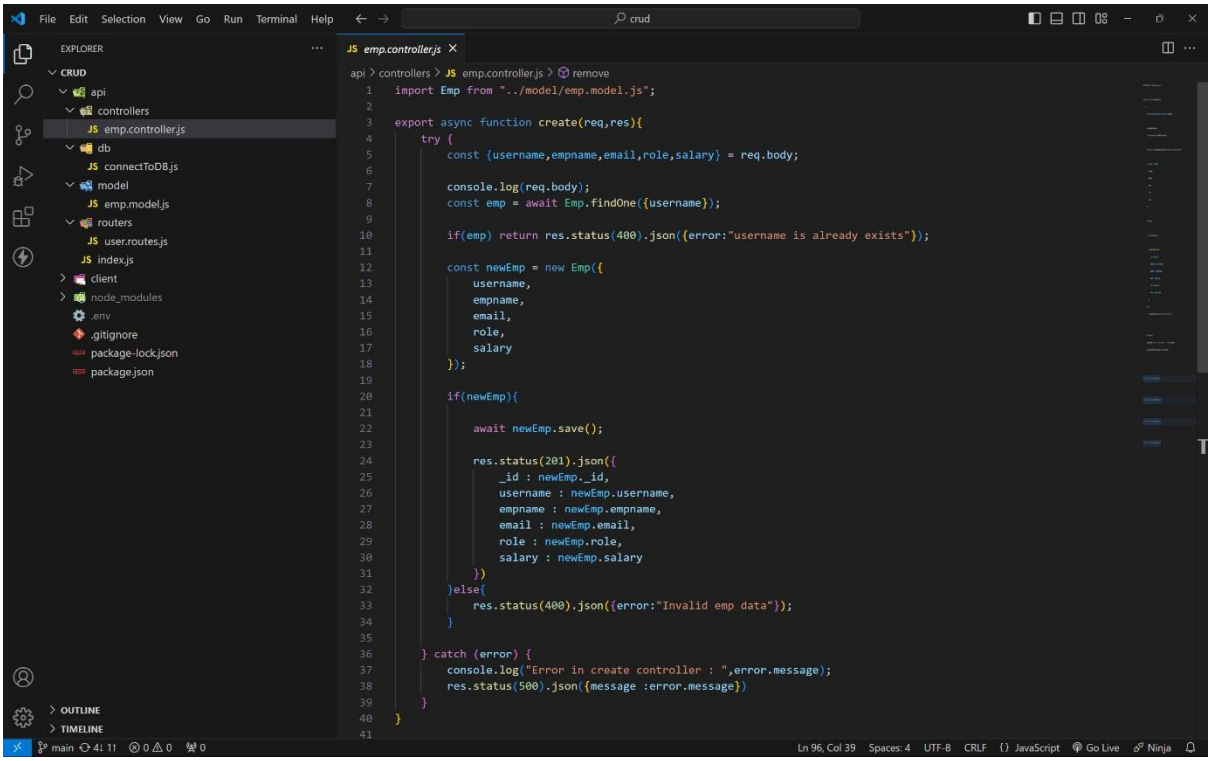
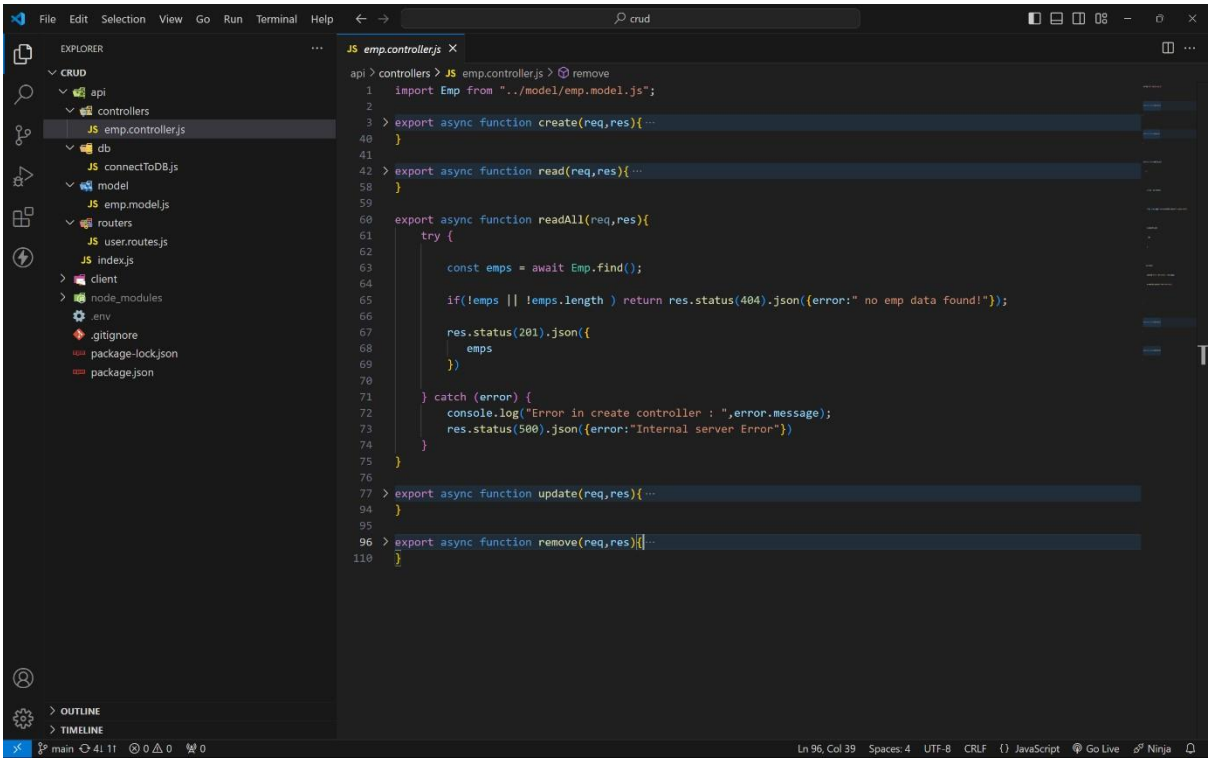
JavaScript
Go Live
Ninja

CONTROLLERS :

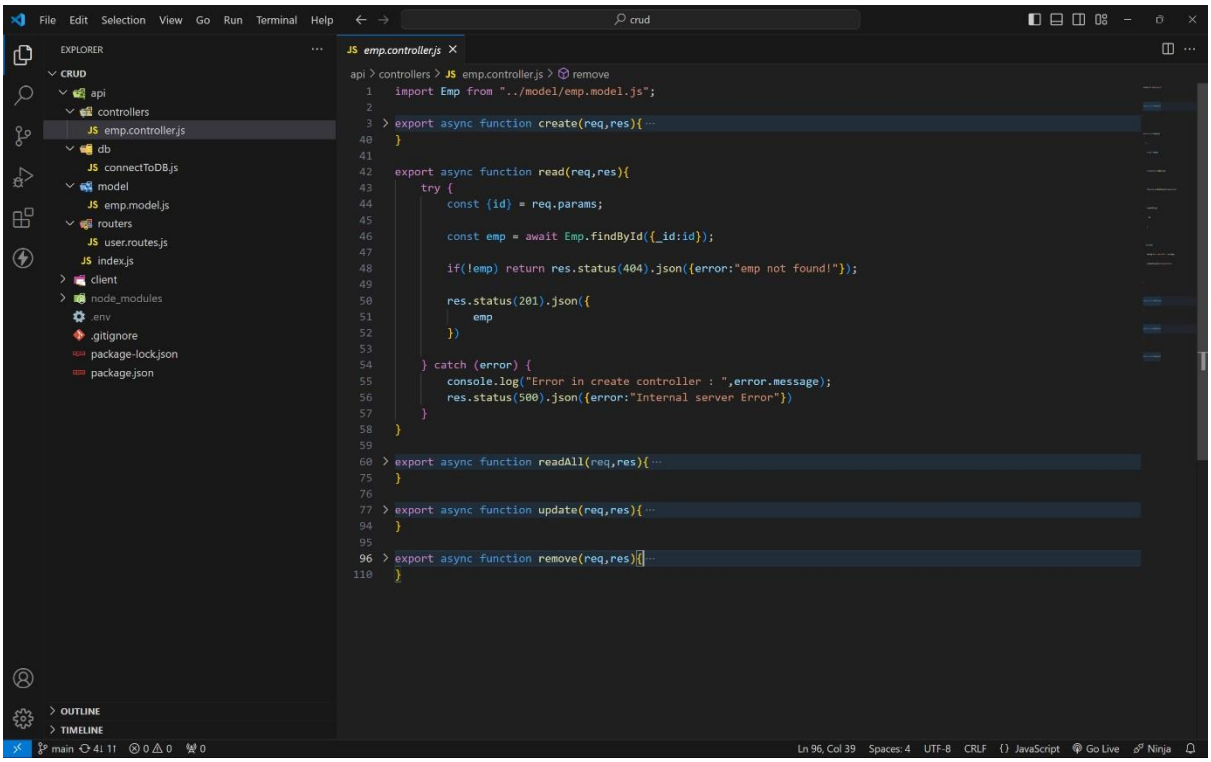
CREATE :



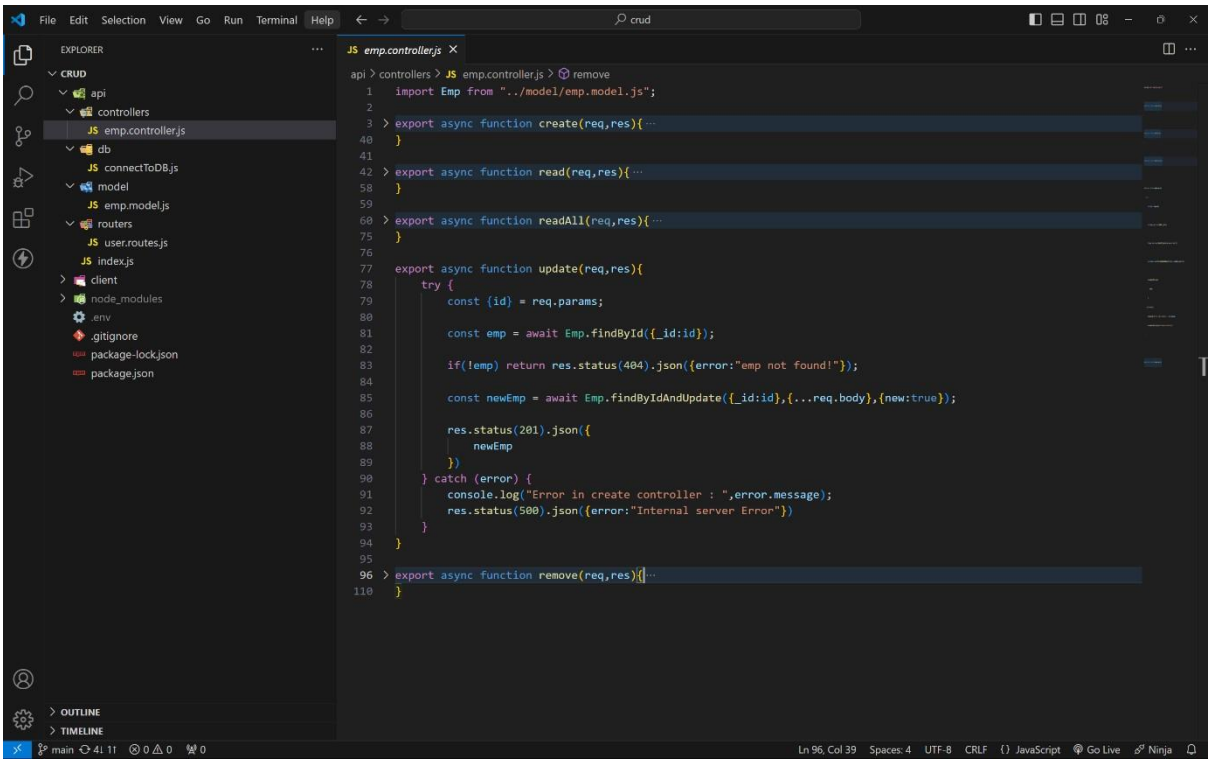
READALL:



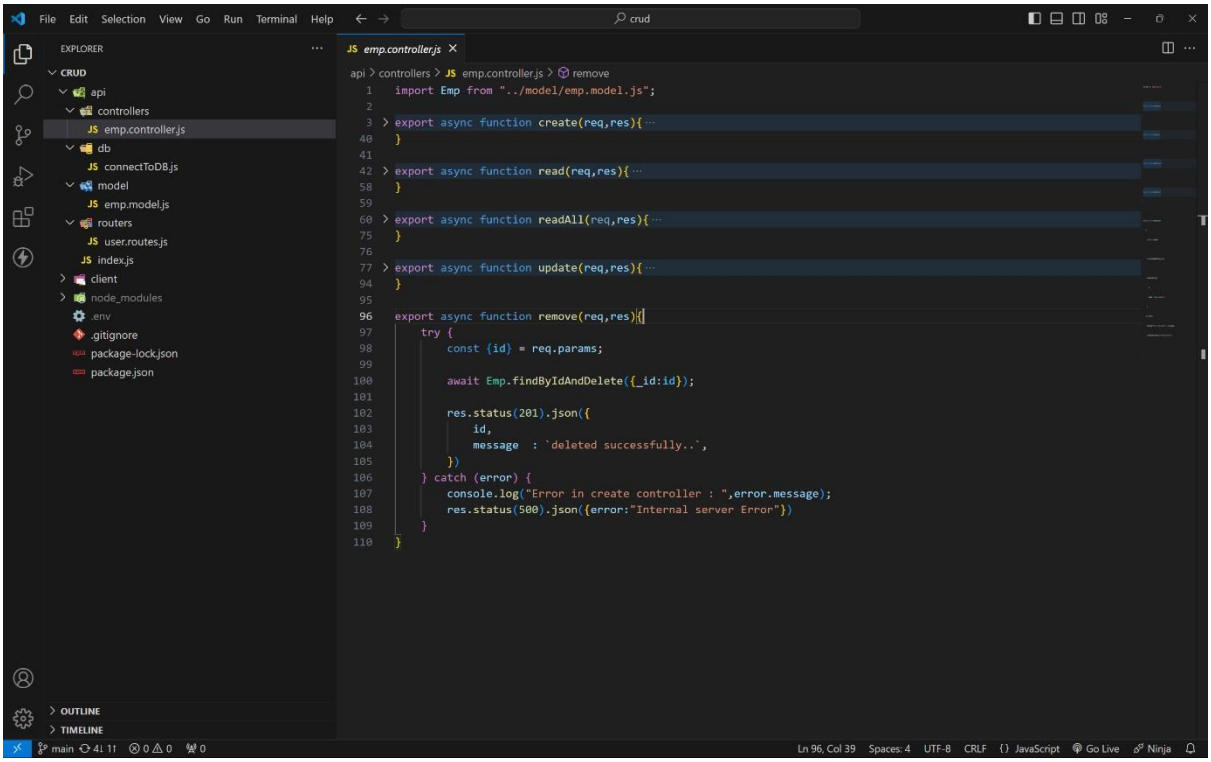
READONE :



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/4727yesuraju/crud.git

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

6 . Ignore client folder.

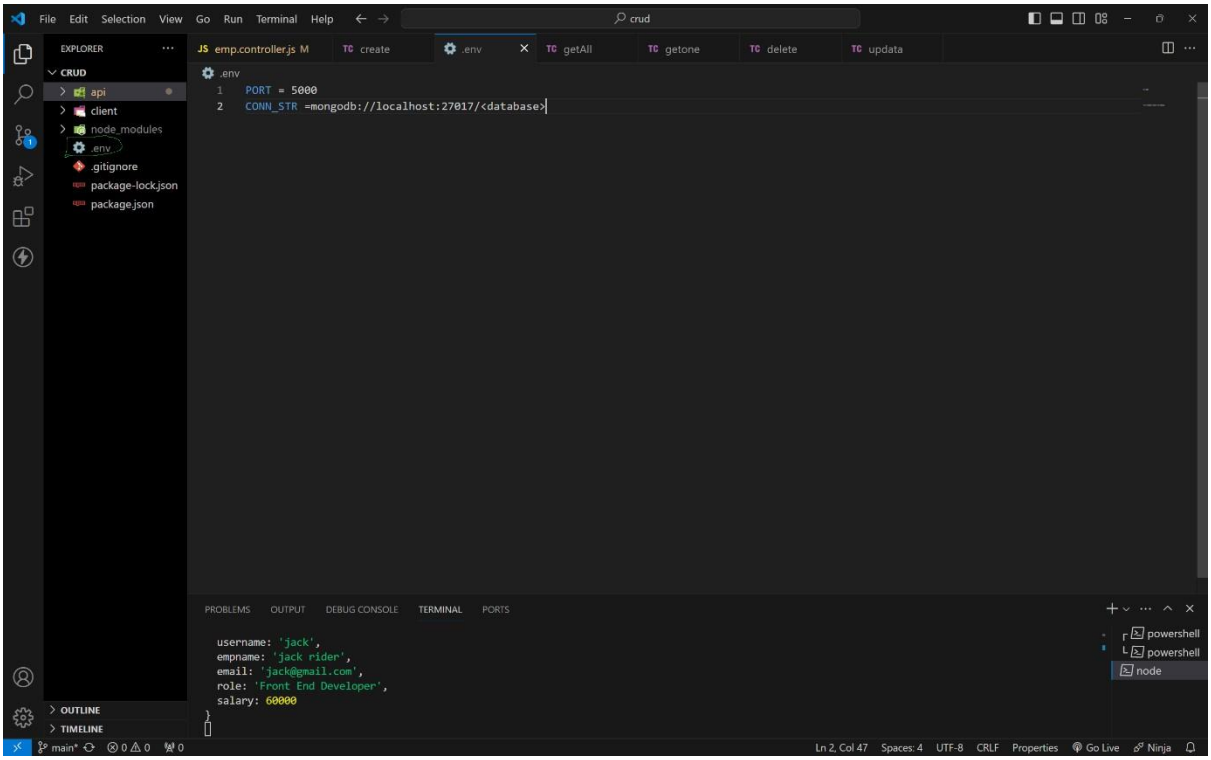
7 . Here crud is root folder.

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

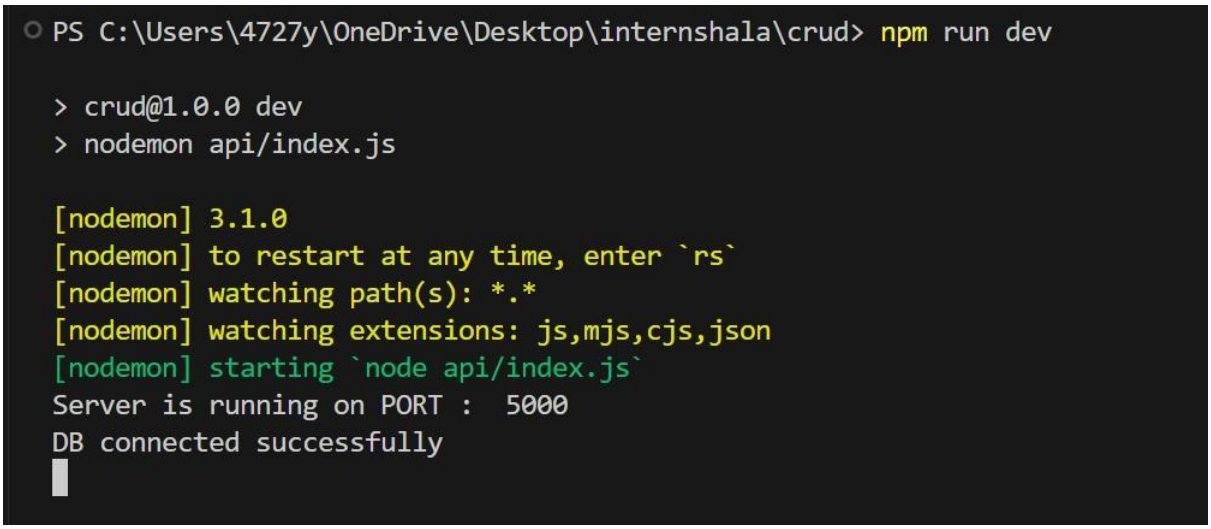
CONN_STR=mongodb+srv://4727yesuraju:rough@cluster0.wbclvtg.mongodb.net/?retryWrites=true&w=majority&appName=Cluster0

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.



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 :

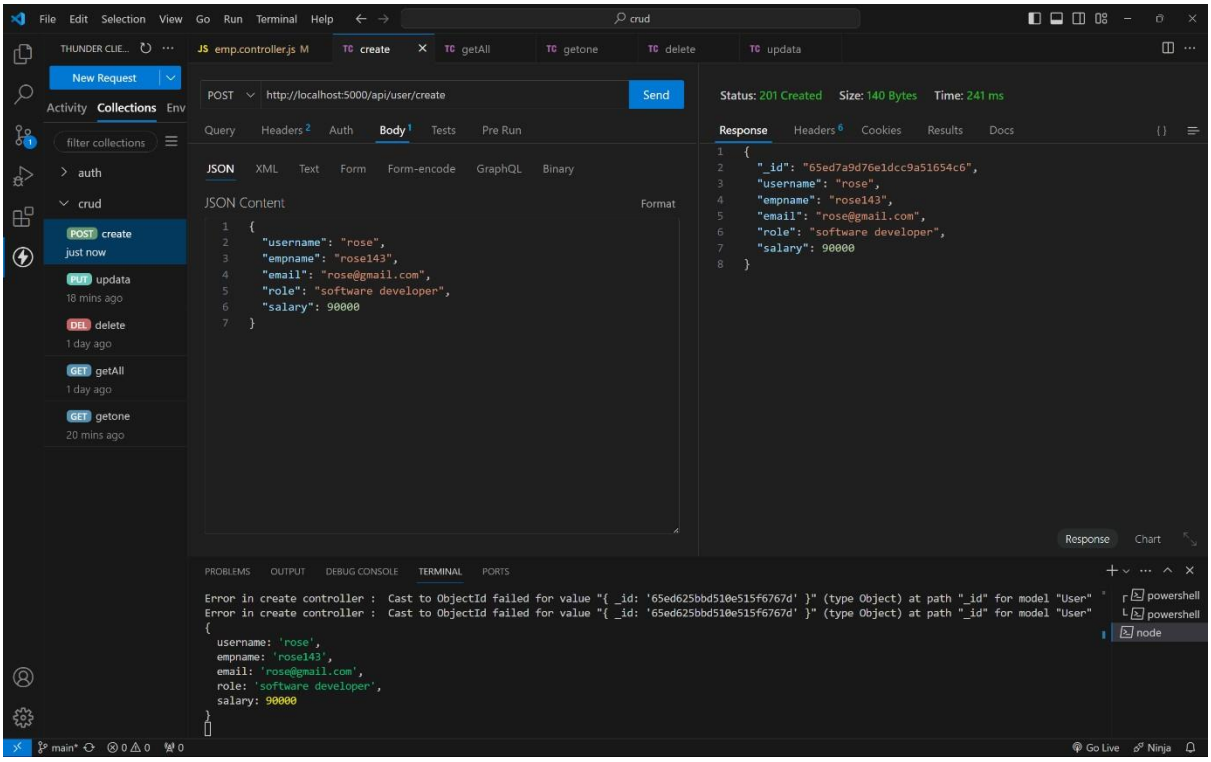
1 . This route is used to delete specific user by passing that user id as a param. method as delete

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

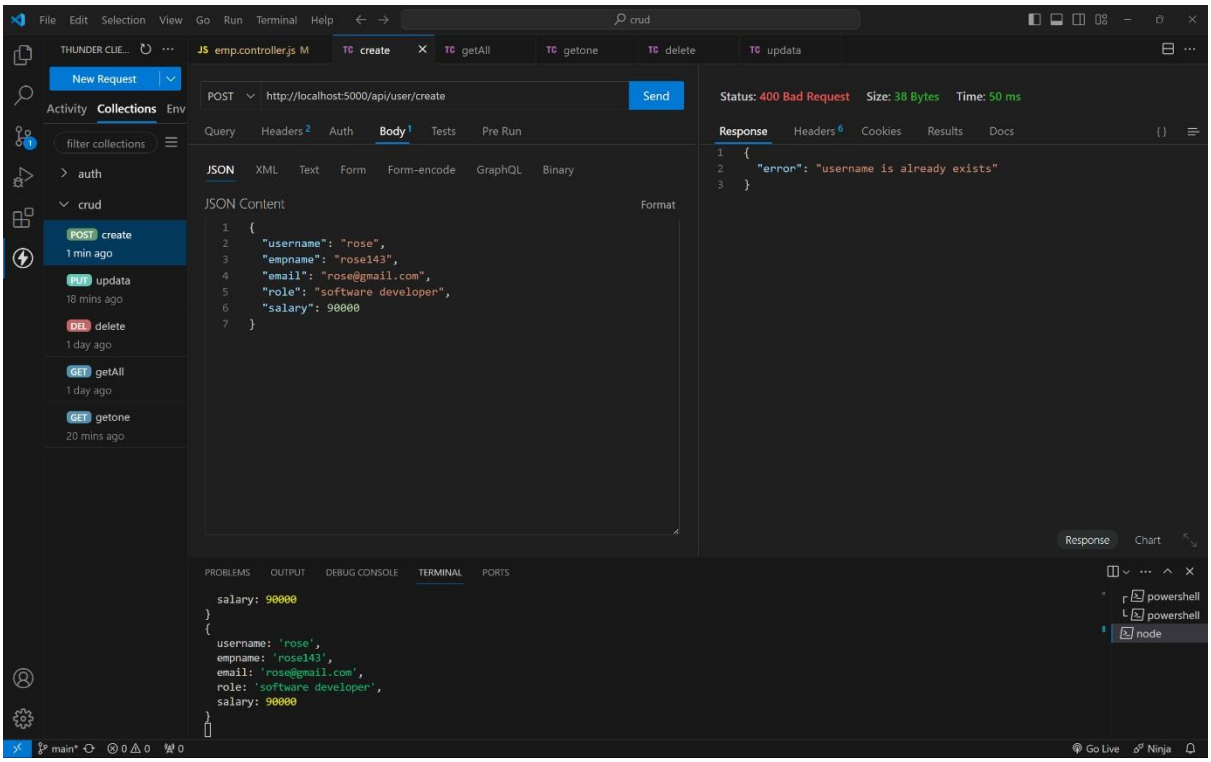
2 . After sending you will deleted successfully as response.

OUTPUT :

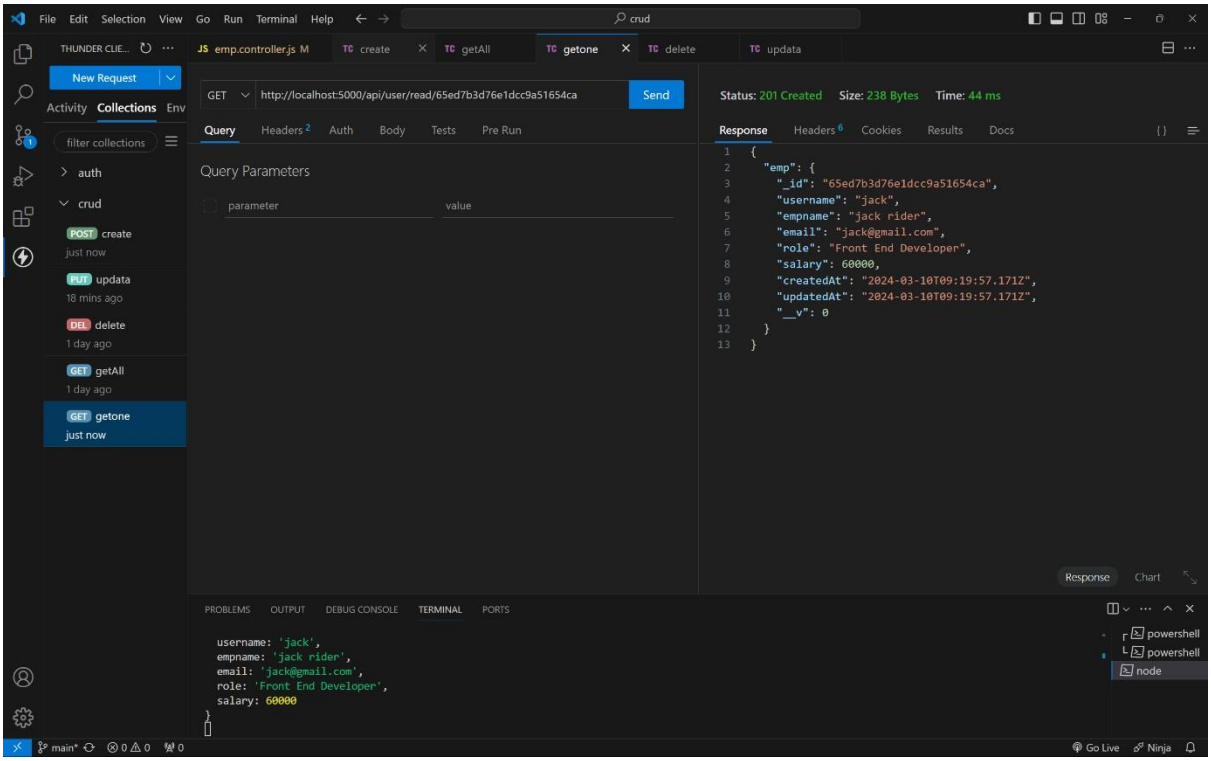
CREATE A NEW USER :



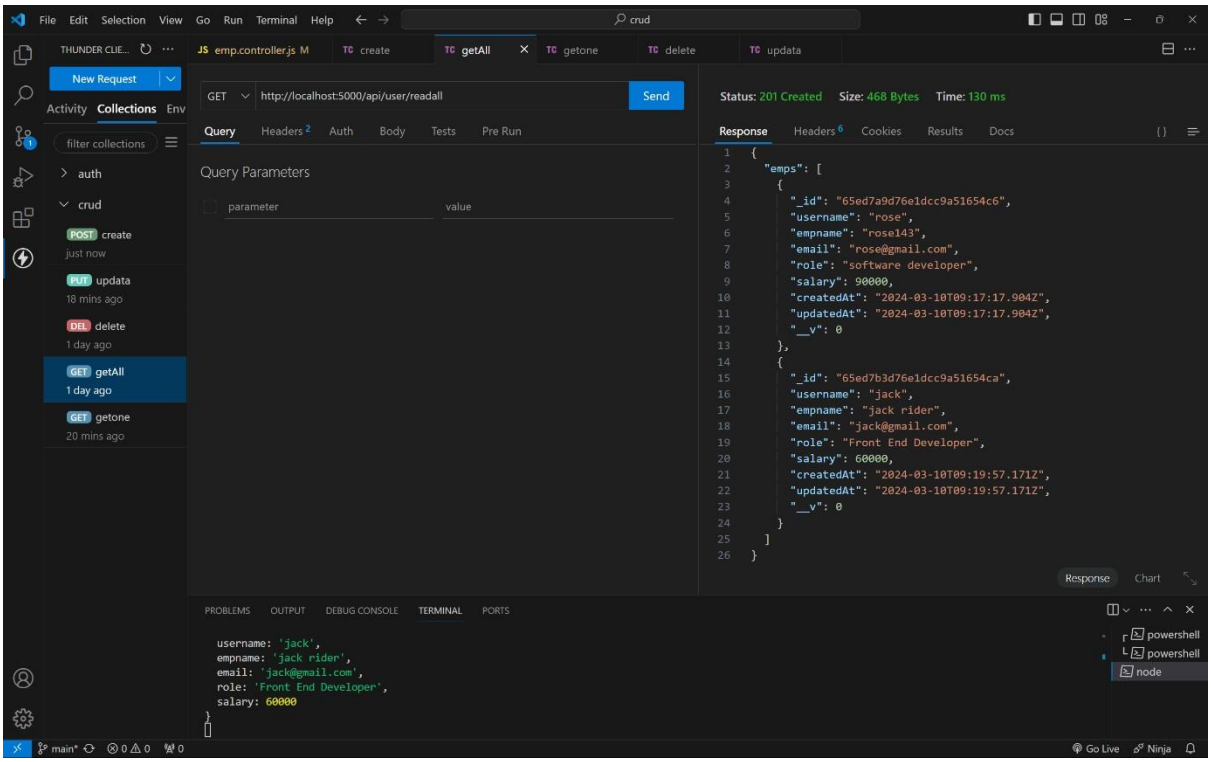
CREATING USER WITH EXISTING USERNAEM :



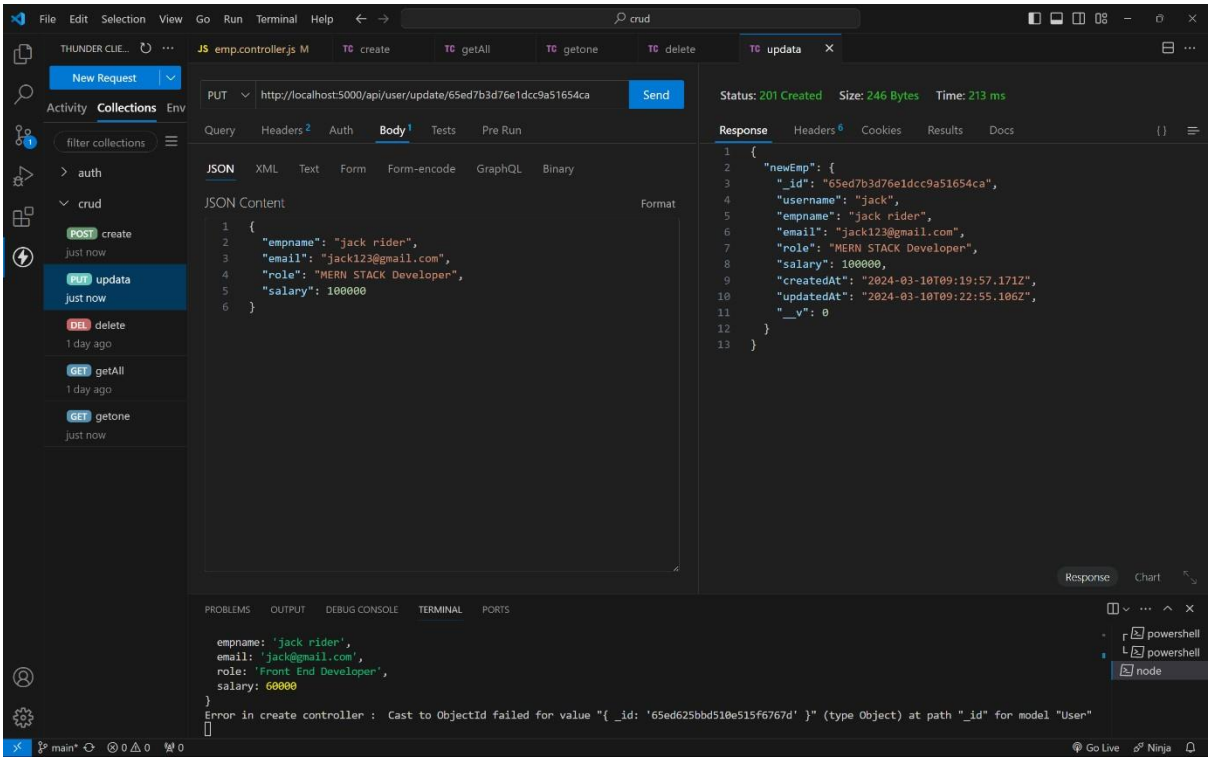
READONE :



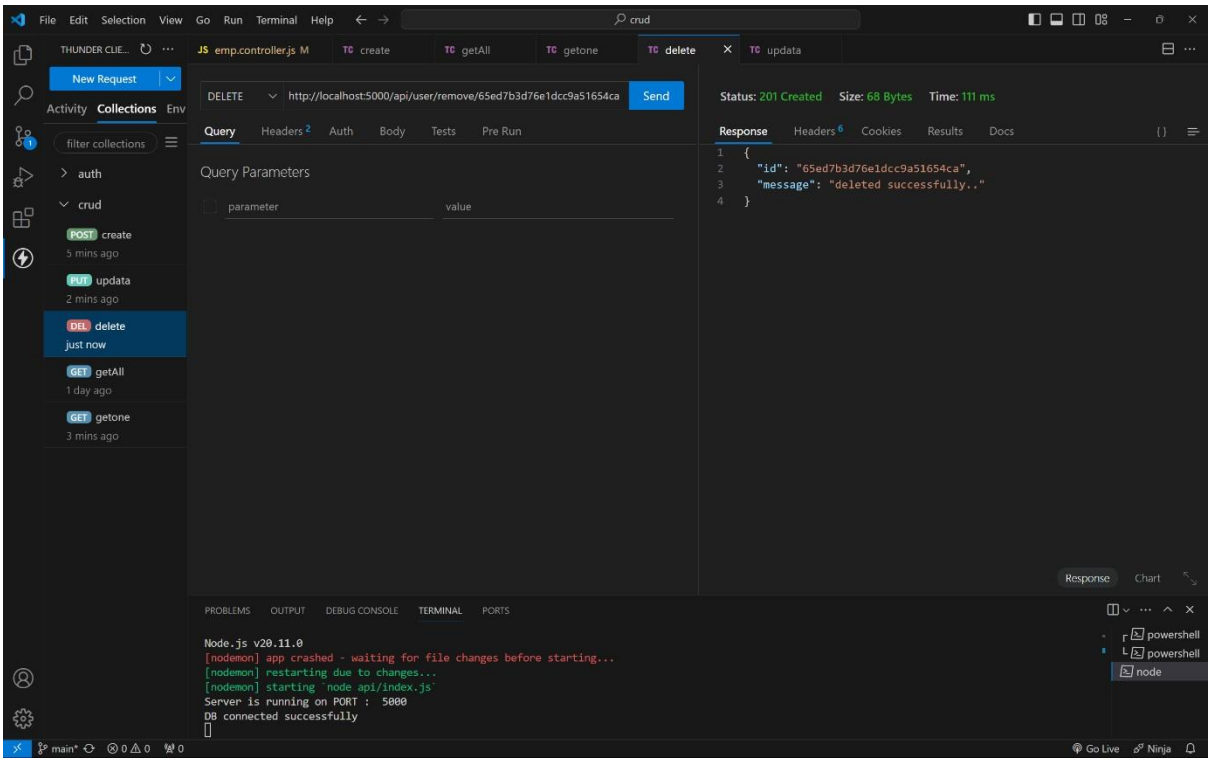
READ ALL :



UPDATE :



DELETE :



SOURCE CODE : https://github.com/4727yesuraju/crud.git

LIVE DEMO : https://yesu-crud.onrender.com