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

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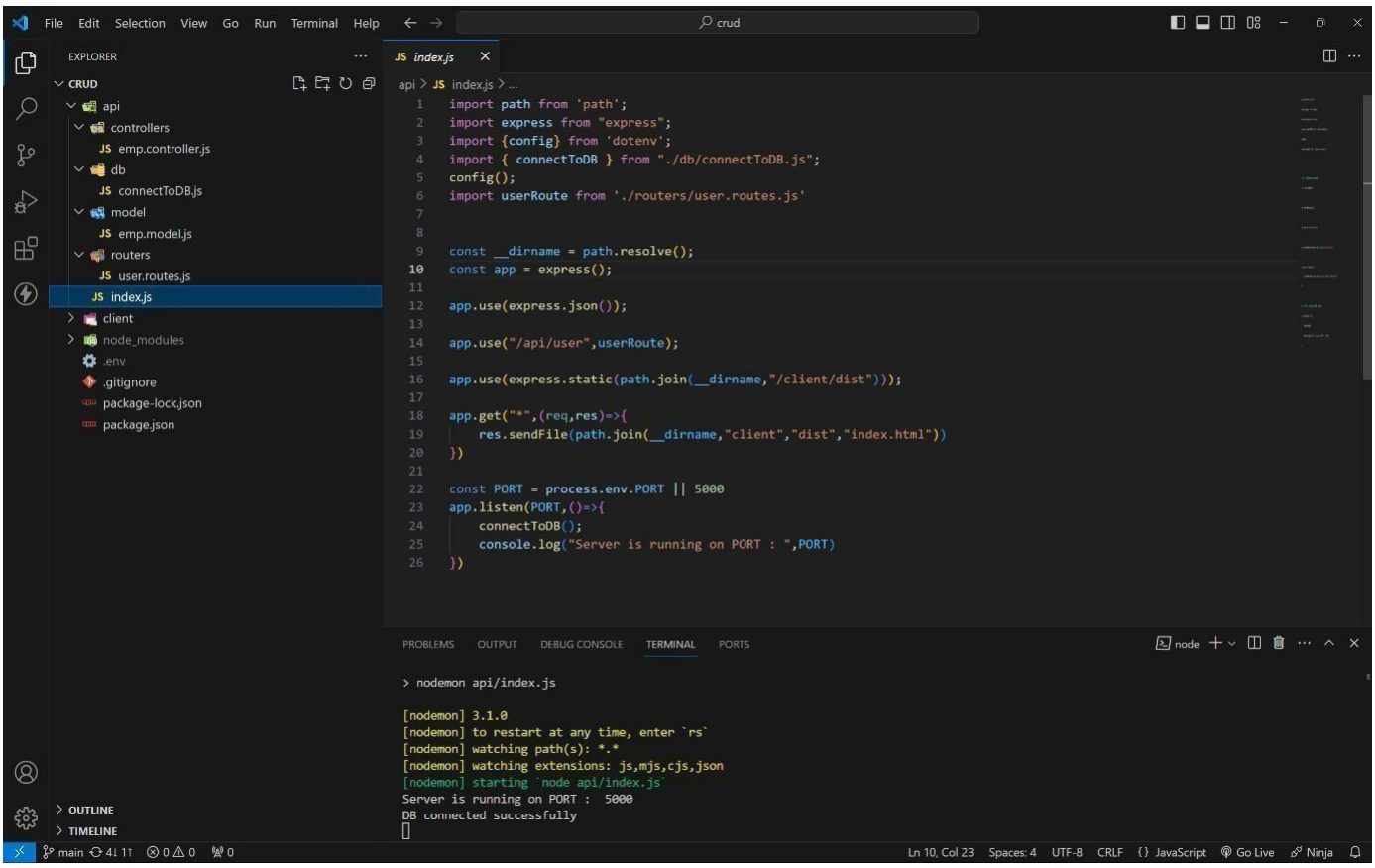
**Roll NO** : 20HU1A0408

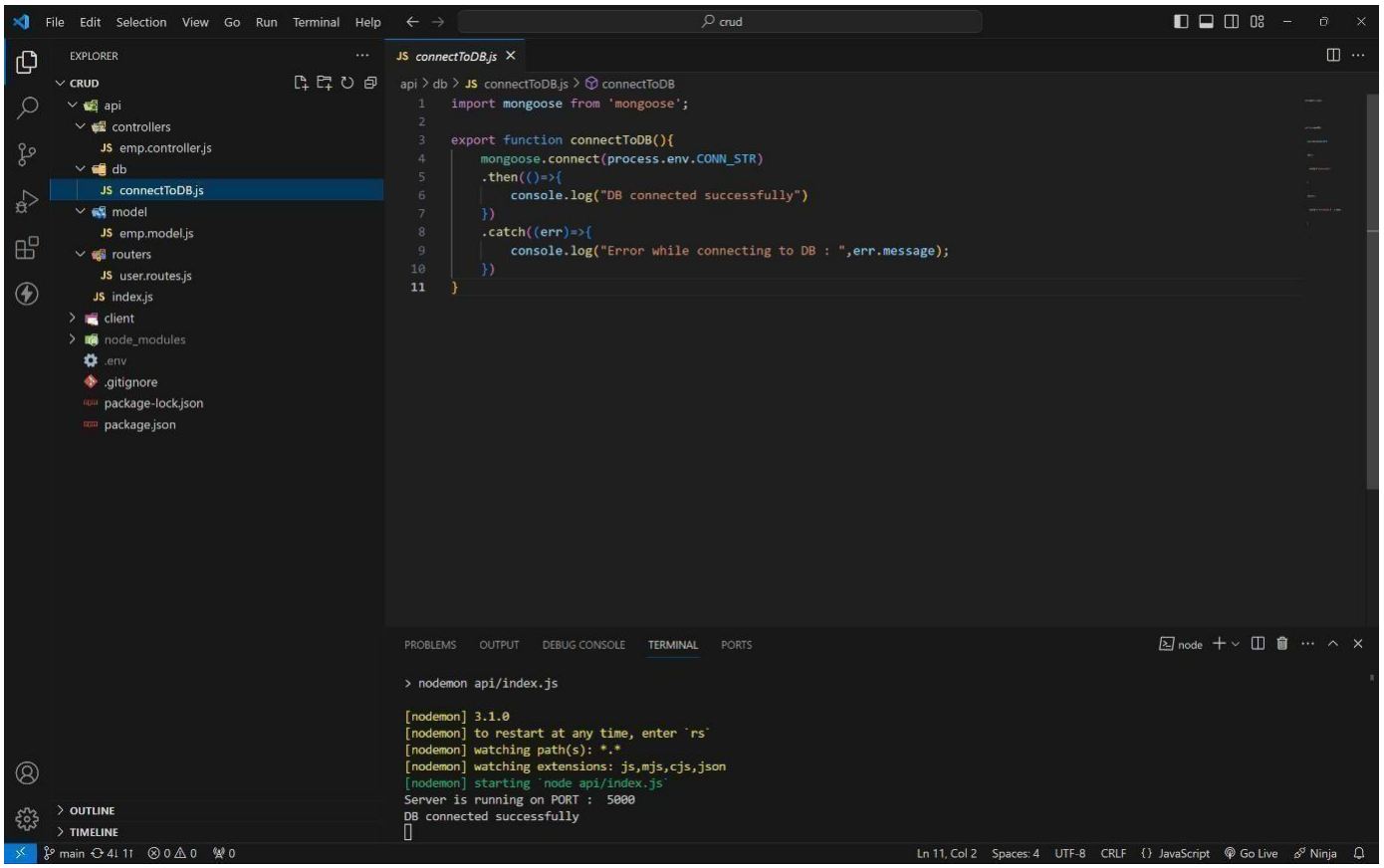
**College Name:**Chebrolu Engineering College

**Source Code:**

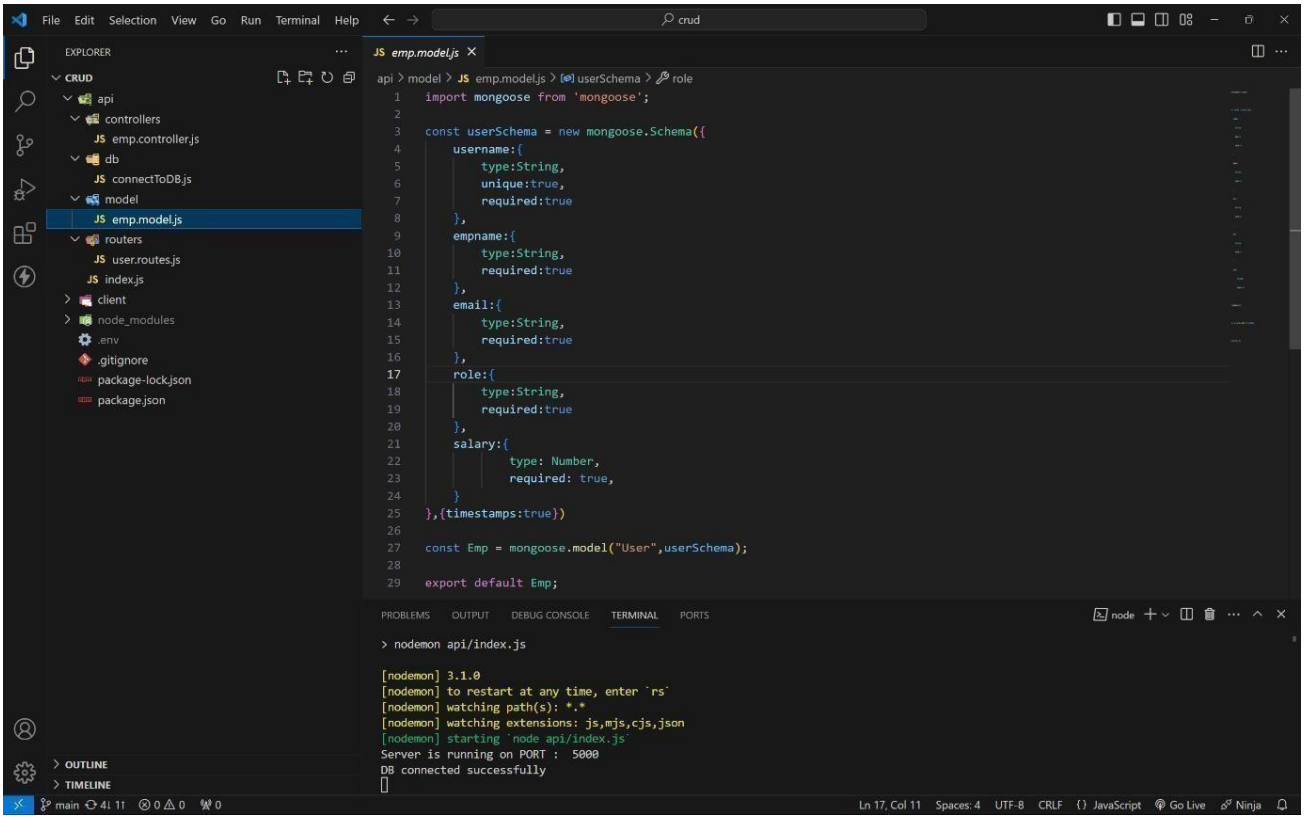
**index.js file :**



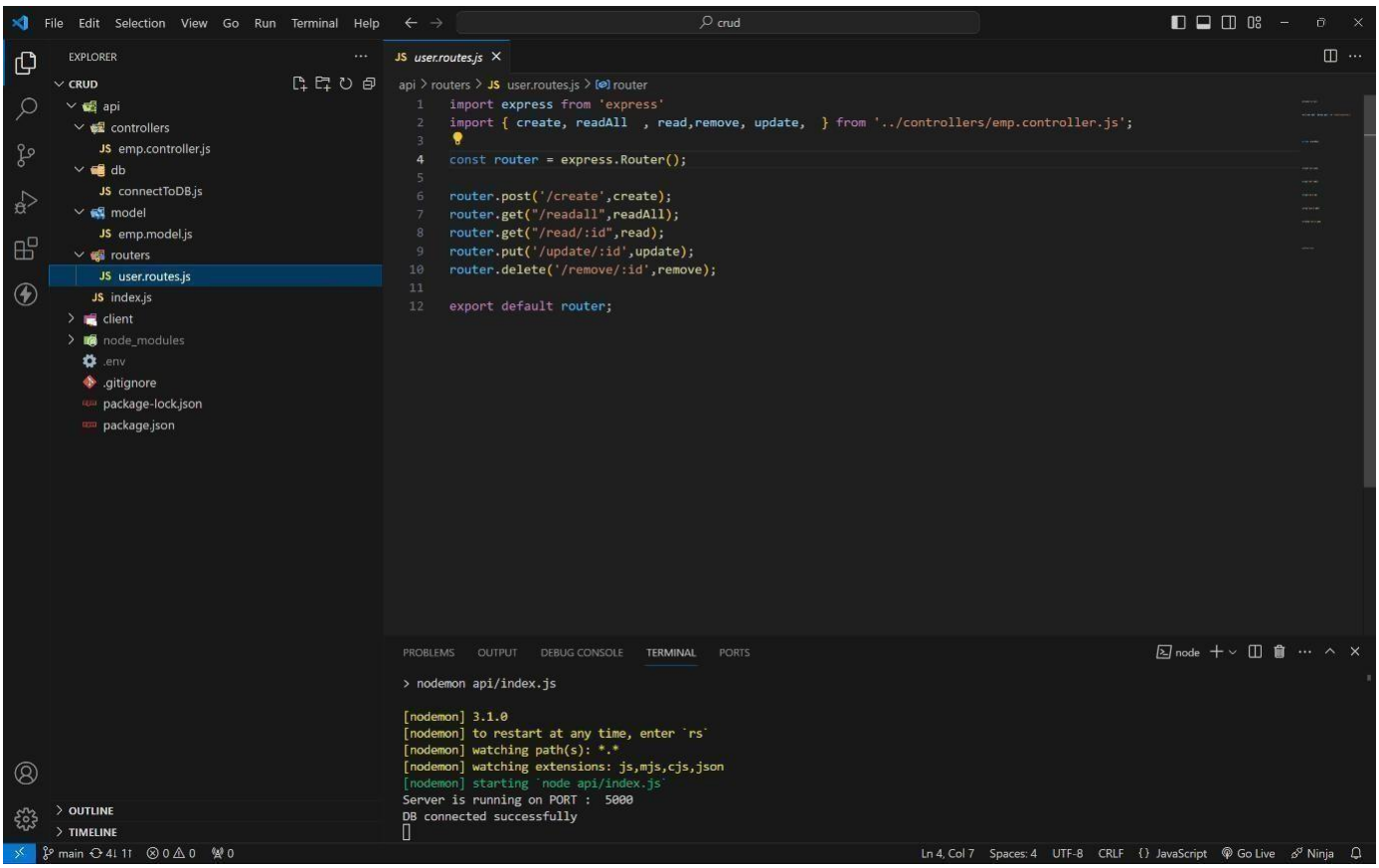

**MONGODB CONNECTION:**



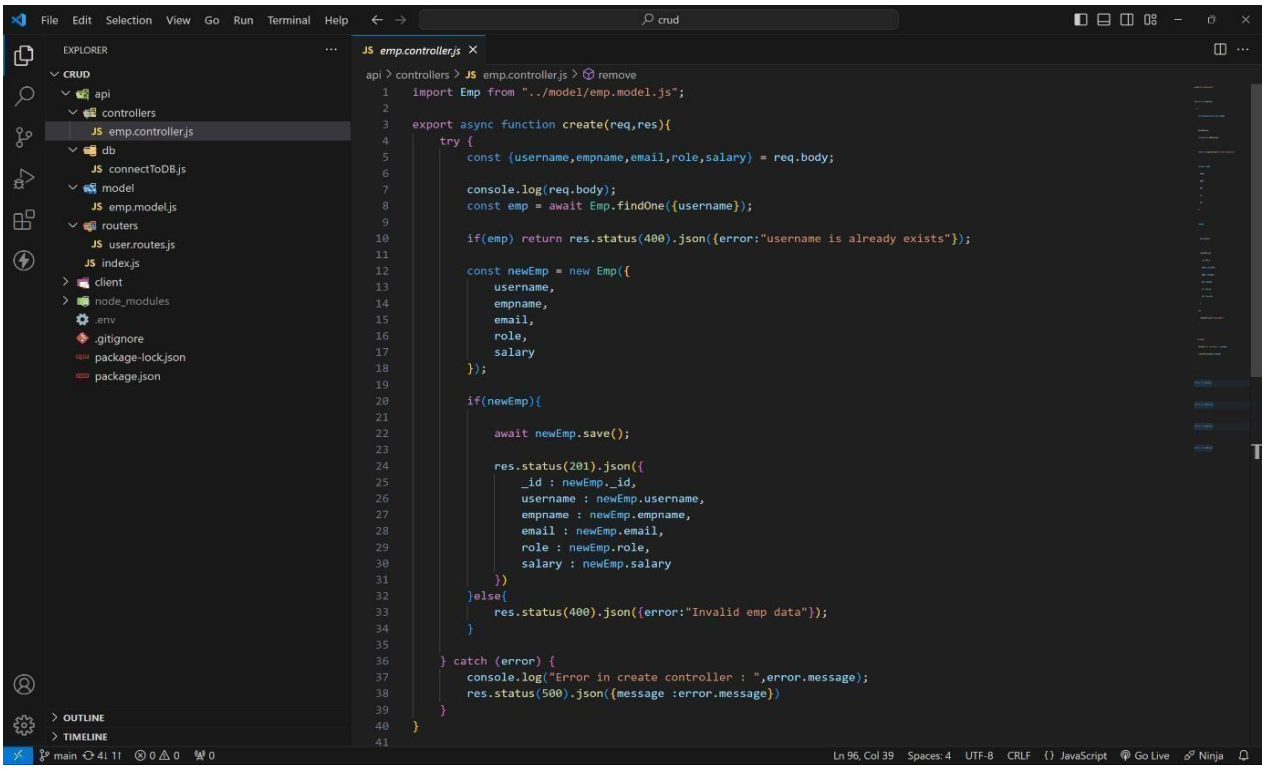

# MODEL:



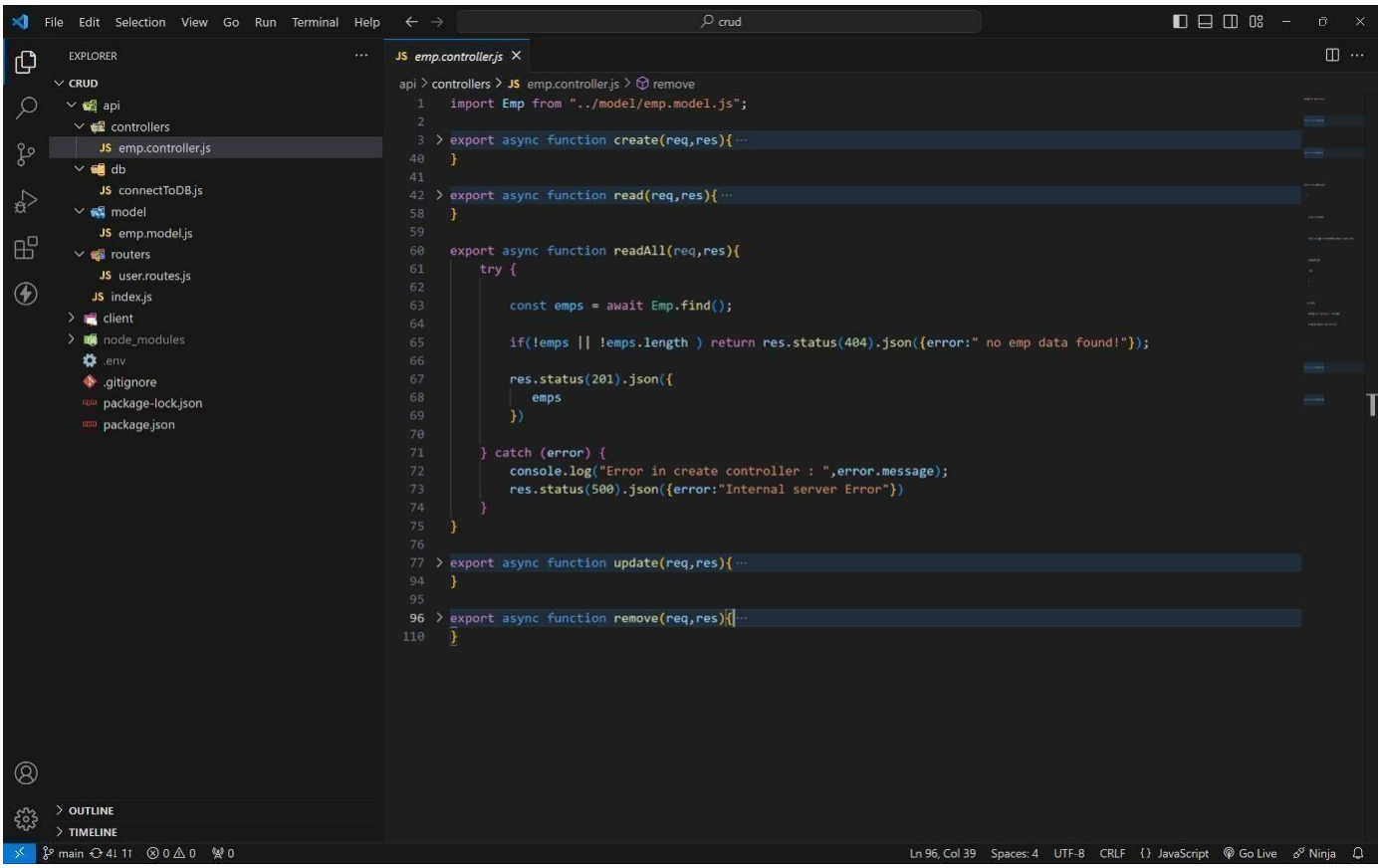

# ROUTES:



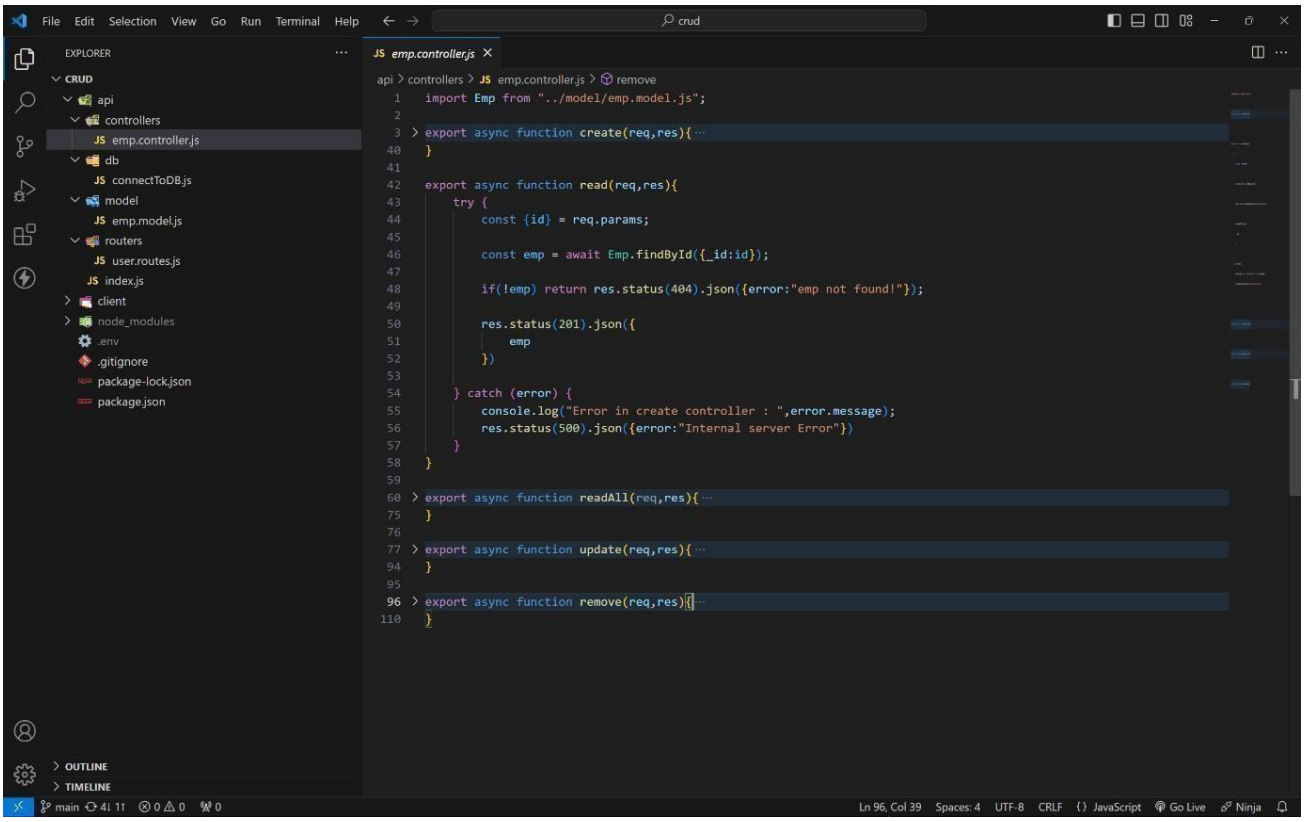

# CONTROLLERS: CREATE:



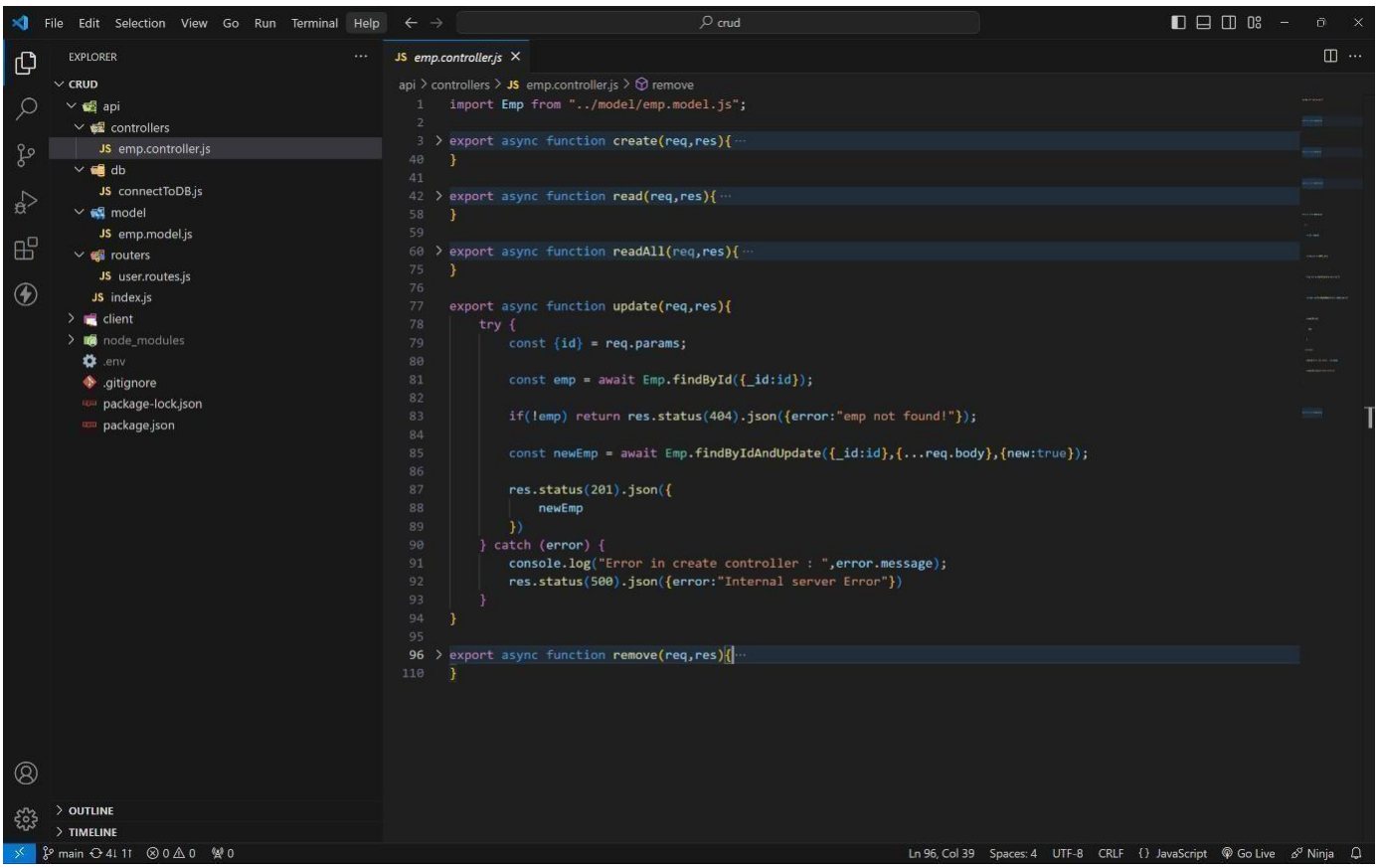

# READALL:



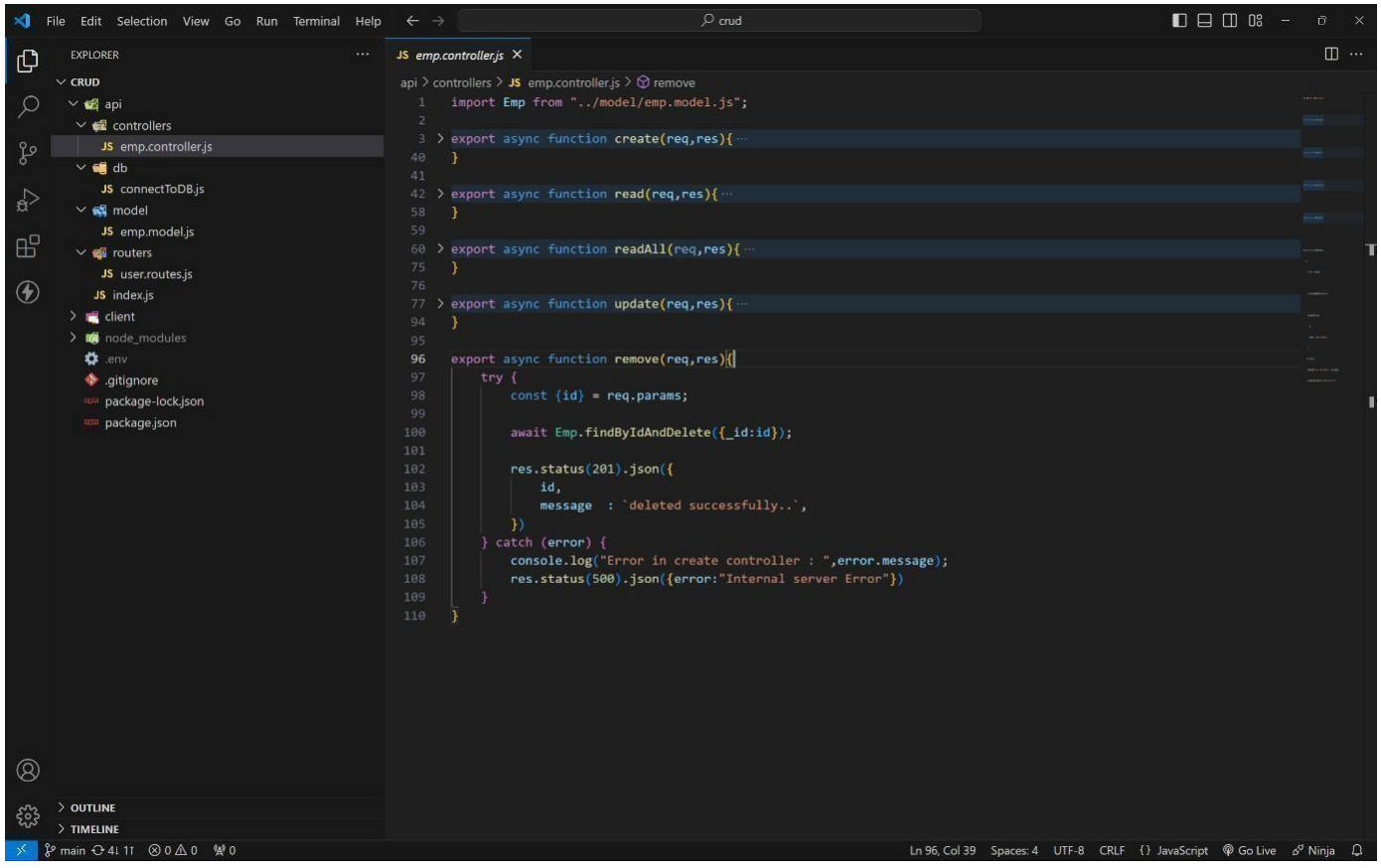

**READONE:**




**UPDATE:**


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.controller.js
api > controllers > emp.controller.js > remove
import Emp from "../model/emp.model.js";
export async function create(req,res){
}
export async function read(req,res){
}
export async function readAll(req,res){
}
export async function update(req,res){
try {
const {id} = req.params;
const emp = await Emp.findById({_id:id});
if(!emp) return res.status(404).json({error:"emp not found!"});
const newEmp = await Emp.findByIdAndUpdate({_id:id},{...req.body},{new:true});
res.status(201).json({
newEmp
})
} catch (error) {
console.log("Error in create controller : ",error.message);
res.status(500).json({error:"Internal server Error"})
}
}
export async function remove(req,res){
}
OUTLINE
TIMELINE
main
Ln 96, Col 39
Spaces: 4
UTF-8
CRLF
JavaScript
Go Live
Ninja

## DELETE: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}
export async function readAll(req,res){
}
export async function update(req,res){
}
export async function remove(req,res){
try {
const {id} = req.params;
await Emp.findByIdAndDelete({_id:id});
res.status(201).json({
id,
message : `deleted successfully..`,
})
} catch (error) {
console.log("Error in create controller : ",error.message);
res.status(500).json({error:"Internal server Error"})
}
}
OUTLINE
TIMELINE
main
Ln 96, Col 39
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## 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

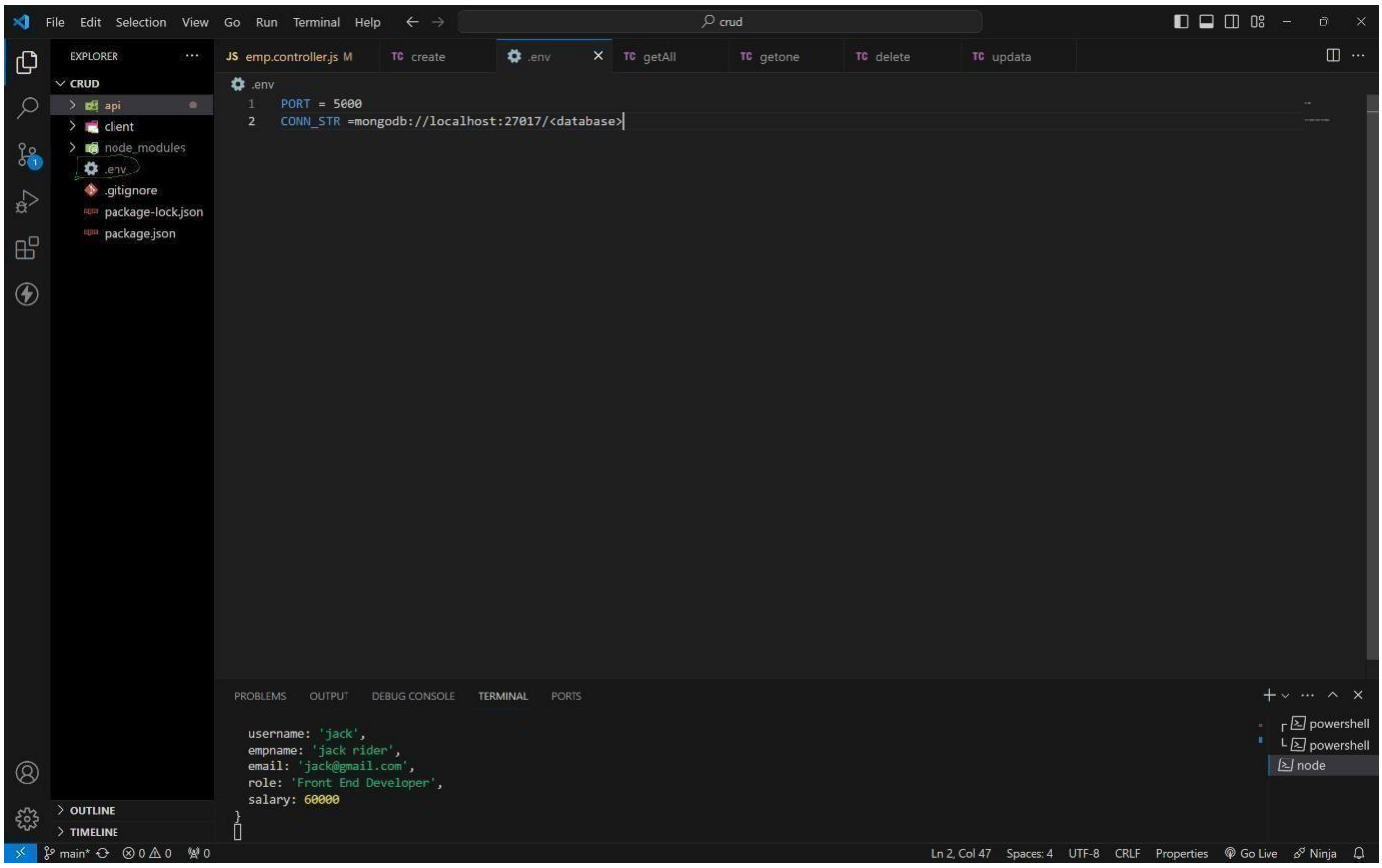
5 . Now move to crud folder (cd crud in terminal) 6 . Ignore client folder.

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.**

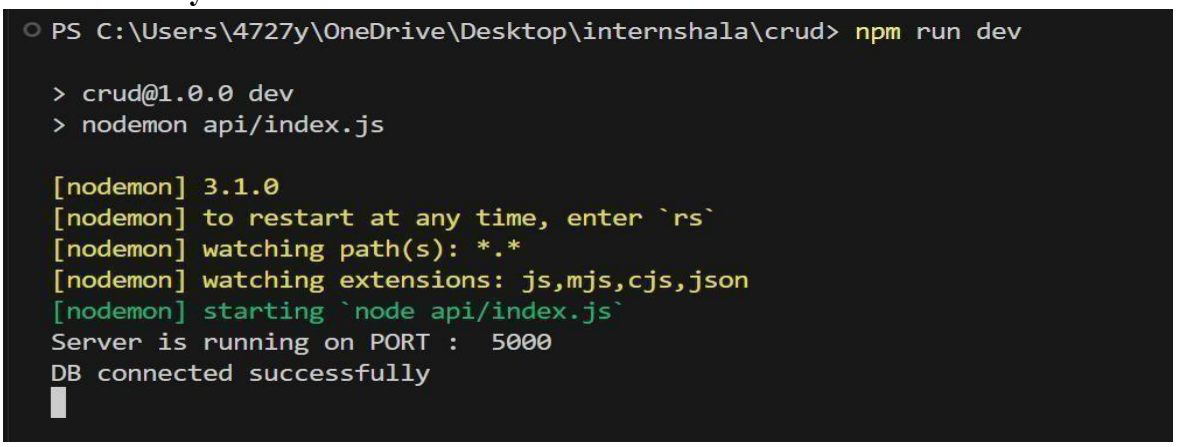
PORT = 5000

CONN_STR=mongodb+srv://4727yesuraju:rough@cluster0.wbclvtg.mongodb.net

/?retry Writes=true&w=majority&appName=Cluster0

9 . **After in terminal (in crud folder as root folder) type this command to 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.**

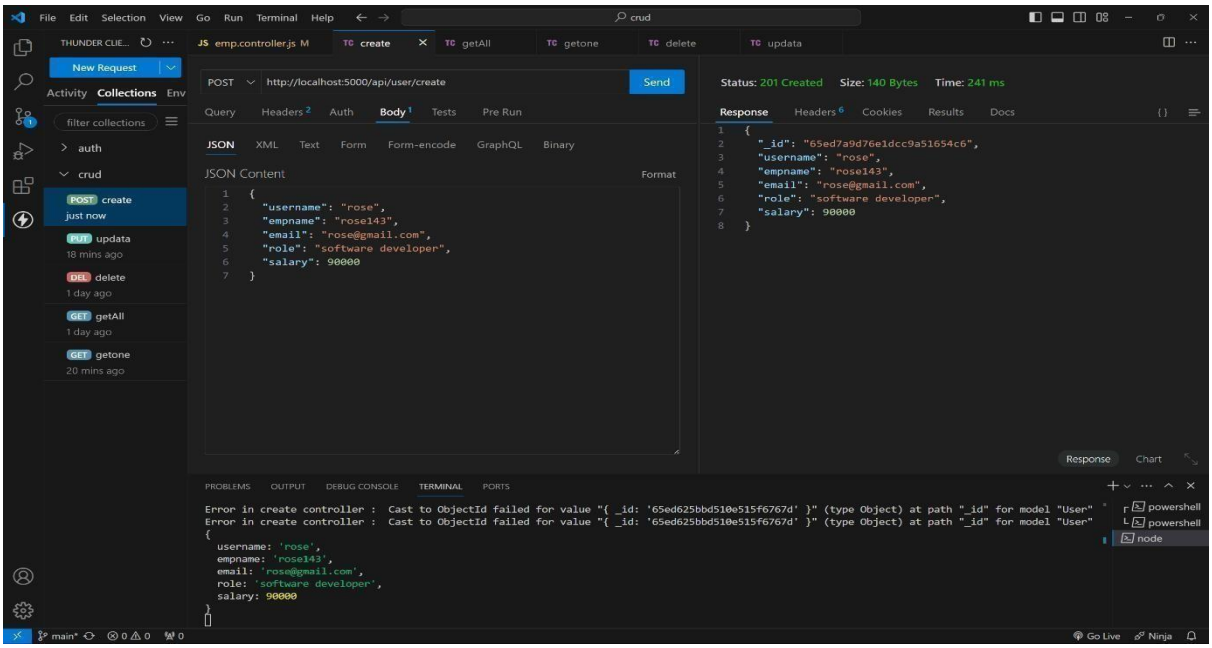
**DELETE :**

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

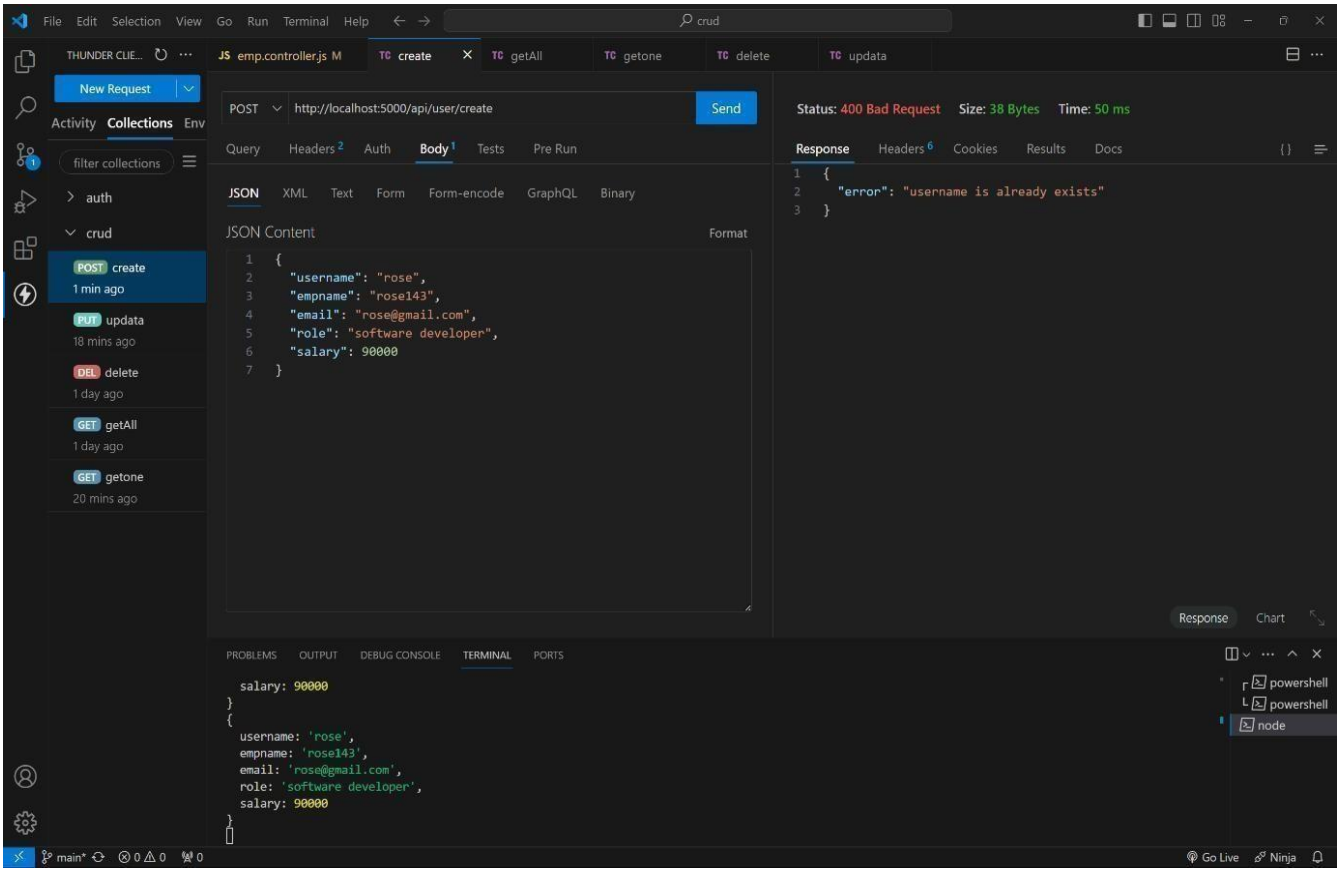
**url as** http://localhost:5000/api/user/delete/65ed7b3d76e1dcc9a51654ca **2 . After sending you will deleted successfully as response.**

**OUTPUT :**

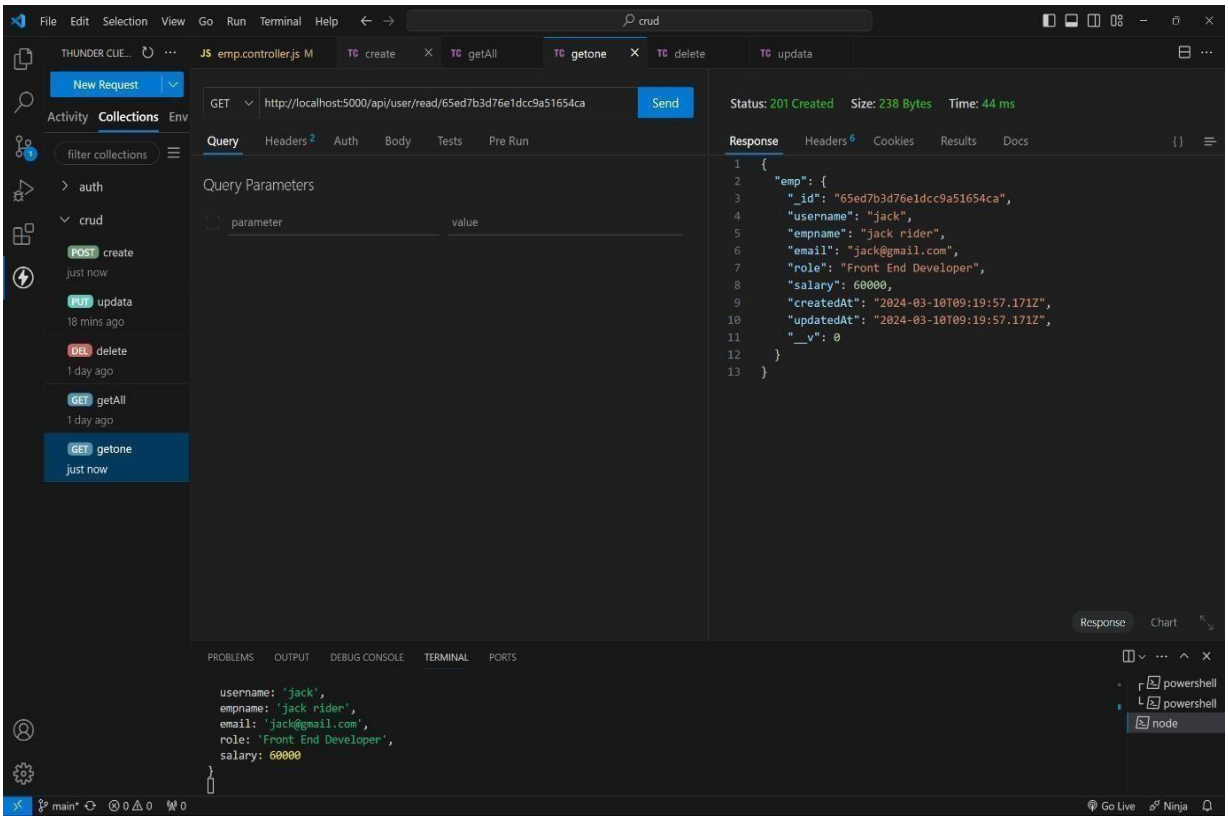
**CREATE A NEW USER :**



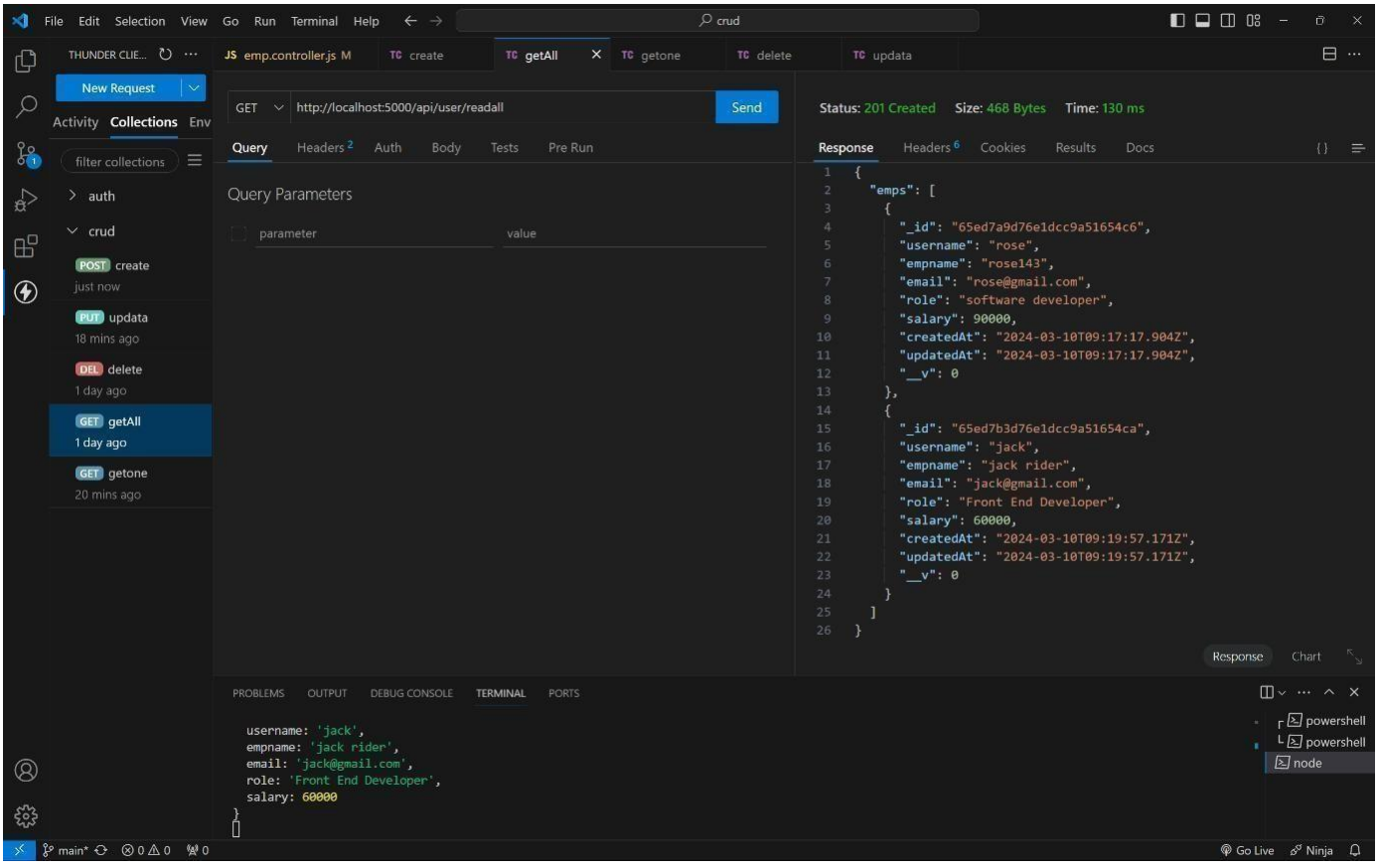

**CREATING USER WITH EXISTING USERNAEM :**



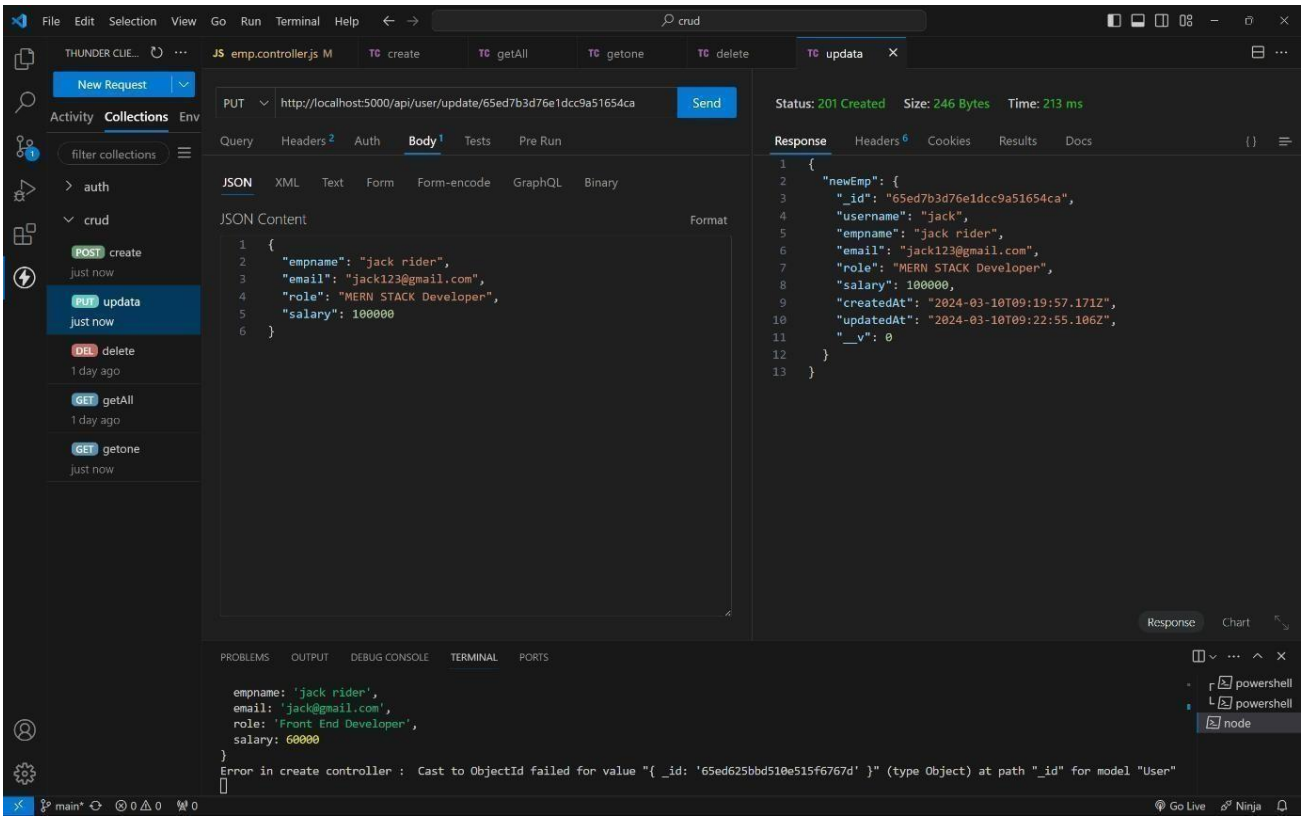

**READONE :**



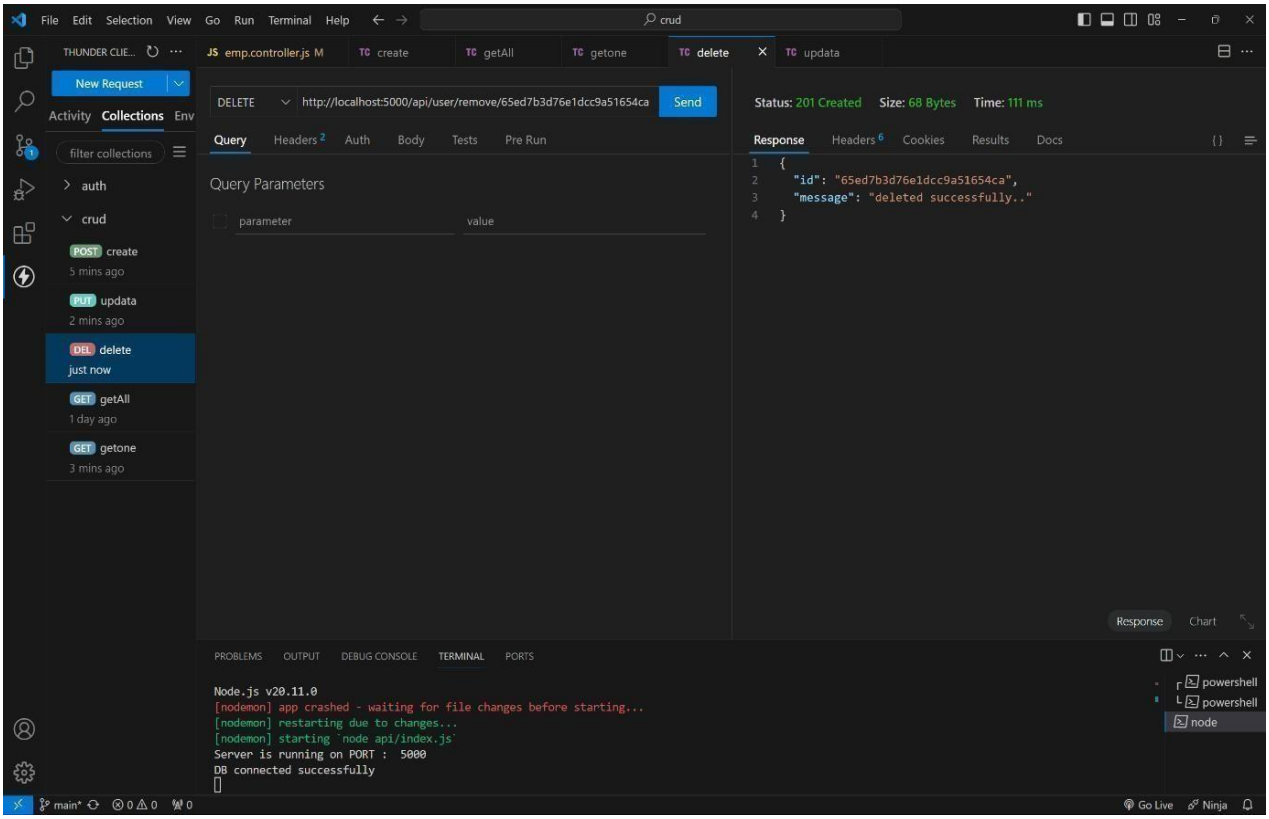

**READ ALL :**




**UPDATE :**


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
just now
DEL delete
1 day ago
GET getAll
1 day ago
GET getone
just now
JS emp.controller.js M
TC create
TC getAll
TC getone
TC delete
TC updata
PUT http://localhost:5000/api/user/update/65ed7b3d76e1dcc9a51654ca
Send
Query Headers 2 Auth Body 1 Tests Pre Run
JSON XML Text Form Form-encode GraphQL Binary
JSON Content
Format
{
"empname": "jack rider",
"email": "jack123@gmail.com",
"role": "MERN STACK Developer",
"salary": 100000
}
Status: 201 Created Size: 246 Bytes Time: 213 ms
Response Headers 6 Cookies Results Docs
{
"newEmp": {
"_id": "65ed7b3d76e1dcc9a51654ca",
"username": "jack",
"empname": "jack rider",
"email": "jack123@gmail.com",
"role": "MERN STACK Developer",
"salary": 100000,
"createdAt": "2024-03-10T09:19:57.171Z",
"updatedAt": "2024-03-10T09:22:55.106Z",
"__v": 0
}
}
Response Chart
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
empname: 'jack rider',
email: 'jack@gmail.com',
role: 'Front End Developer',
salary: 60000
}
Error in create controller : Cast to ObjectId failed for value "{ _id: '65ed625bbd510e515f6767d' }" (type Object) at path "_id" for model "User"
powershell
powershell
node
main*
Go Live
Ninja

**DELETE :**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1 day ago
GET getone
3 mins ago
JS emp.controller.js M
TC create
TC getAll
TC getone
TC delete
TC updata
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