# 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:**

```
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                                                                                             JS connectToDB.js ×
                                                                    P+P+O D api > db > JS connectToDBjs > ⊕ connectToDB

import mongoose from 'mongoose';
          ✓ 

api

✓ 

controllers

                                                                                                           export function connectToDB(){
    mongoose.connect(process.env.CONN_STR)
    .then(()=>{
        console.log("DB connected successfully")
               JS emp.controller.js

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                   JS connectToDB.js
                                                                                                                  JS index.is
            > client
> does, js
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- env
- env
- gitignore
- package-lock, json
                  package.json
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                                                                                                [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 apyl/index.js'

Server is running on PORT: 5000

DB connected successfully
> OUTLINE > TIMELINE
```

#### **MODEL:**

```
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  EXPLORER
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                                     ∨ CRUD
∨ 🕰 api
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✓ ■ db

JS connectToDB.js

✓ ■ model
                                                                                                                                                                                                                                                                                                                                                                                                                                             username:{
type:String,
unique:true,
required:true
                                                    JS emp.model.js
                                                                          JS user.routes.is
                                                                                                                                                                                                                                                                                                                                                                                                                                        },
email:{
   type:String,
   required:true
                                             > client
> file node_modules
the description of the control of the

    gitignore
    package-lock.json
    package.json

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type: Number,
required: true,
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[nodemon] to restart at any time, enter 'rs'
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,cjs,json
[nodemon] starting 'node appl/index.js'
Server is running on PORT: 50000
B8 connected successfully
[]
> OUTLINE > TIMELINE
```

### **ROUTES:**

### **CONTROLLERS:**

### **CREATE:**

### **READALL:**

#### **READONE:**

# **UPDATE:**

### **DELETE:**

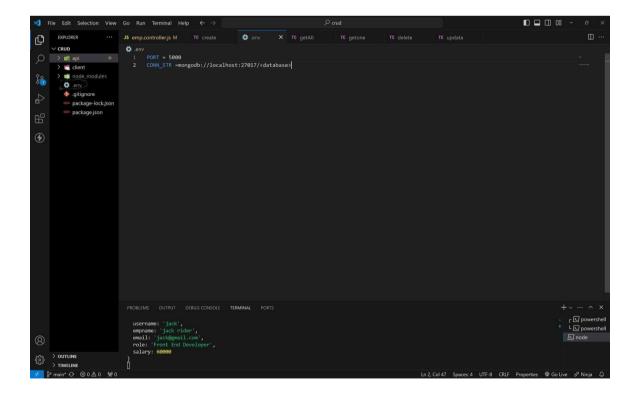
# **HOW TO RUN ON LOCALLY:**

- 1. Create a folder as any name.
- 2. Open that folder in any code editor (vs code).
- 3. Open terminal (  $ctrl + \sim$  ) 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.

```
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

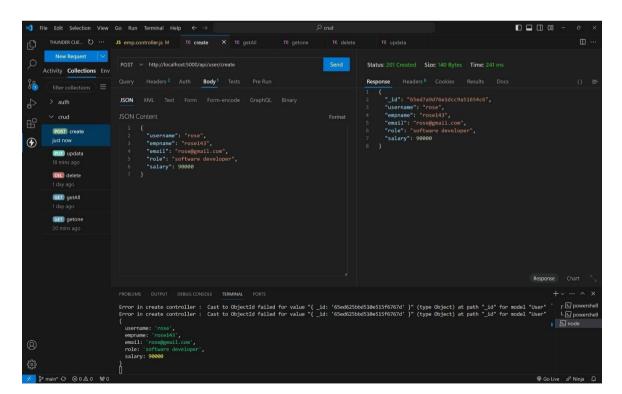
url as

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

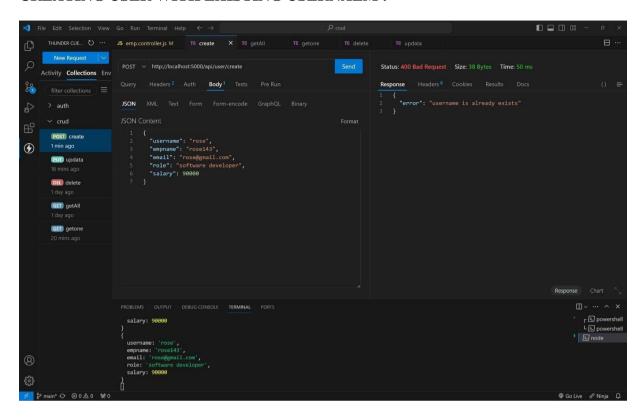
2. After sending you will deleted successfully as response.

# **OUTPUT:**

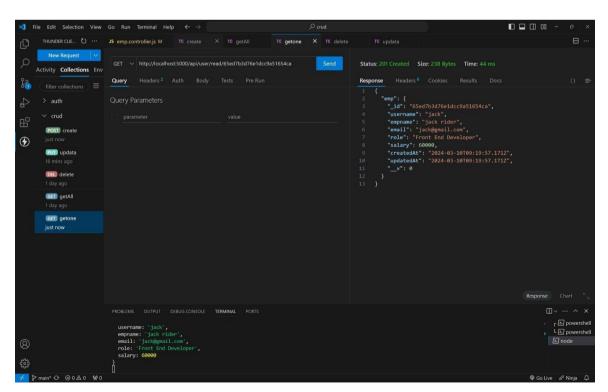
# **CREATE A NEW USER:**



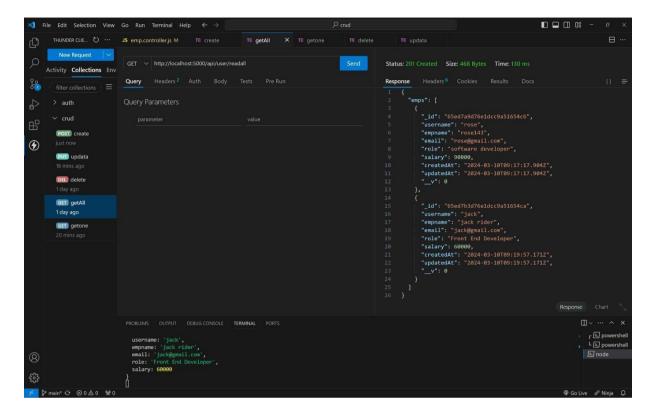
#### **CREATING USER WITH EXISTING USERNAEM:**



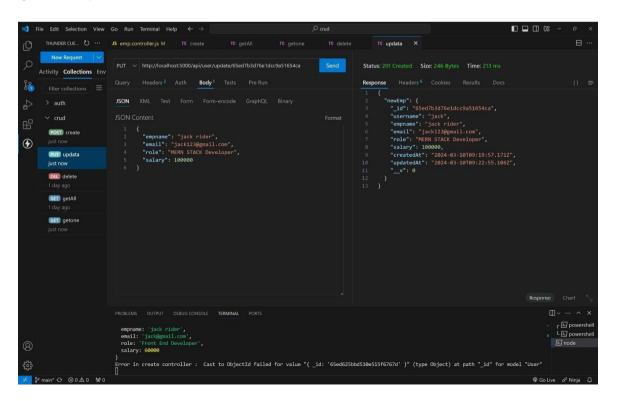
## **READONE:**



#### **READ ALL:**



#### **UPDATE:**



### **DELETE:**

