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:

```
File Edit Selection View Go Run Terminal Help \leftarrow \rightarrow
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<sub>Q</sub>
                                                                                                  JS emp.model.js X
                                                                       C+ C+ ひ ⊖ api > model > J5 emp.model.js > (*) userSchema > /9 role
1 import mongoose from 'mongoose';
          ∨ CRUD
∨ 🛍 api
               username:{
type:String,
unique:true,
required:true
               JS emp.controller.js

✓ • db

JS connectToDB.js

✓ • model
                                                                                                                       },
empname:{
type:String,
required:true
               JS emp.model.js
                     JS user.routes.js
             Js index.js

> index.js

> index.js

> index.js

> index.js

    gitignore
    package-lock.json
    package.json

                                                                                                                         },
salary:{
type: Number,
required: true,
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                                                                                                      > 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 apyl/index.js'

Server is running on PORT: 5000

DB connected successfully
> OUTLINE > TIMELINE
```

ROUTES:

```
File Edit Selection View Go Run Terminal Help ←
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∨ 🚅 controllers
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                                                                                                                     € db
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                router.post('/create',create);
router.get('/readail',readAil);
router.get('/read/:id',read);
router.put('/update',id',update);
router.put('/update',id',update);
                                                                                          JS connectToDB.js

✓ 📢 model
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                                                                                                                  JS user.routes.js
JS index.js
                                                                                                 client
lineaps
                                                                                                                                package.json
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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 apt/!ndex.js'

Server is running on PORT: 5000

DB connected successfully
> outline > timeline
```

CONTROLLERS:

CREATE:

READALL:

READONE:

UPDATE:

DELETE:

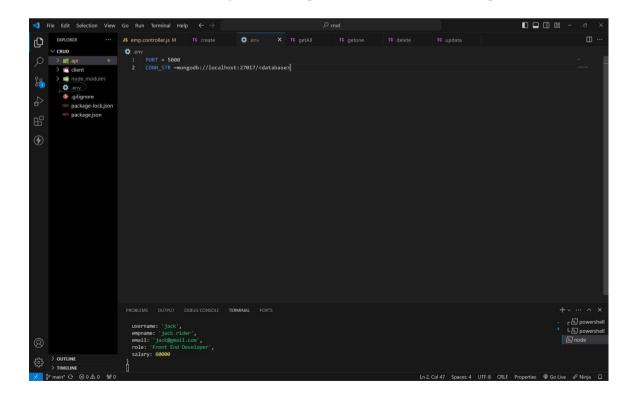
HOW TO RUN ON LOCALLY:

- 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
}
```

 $\boldsymbol{3}$. 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

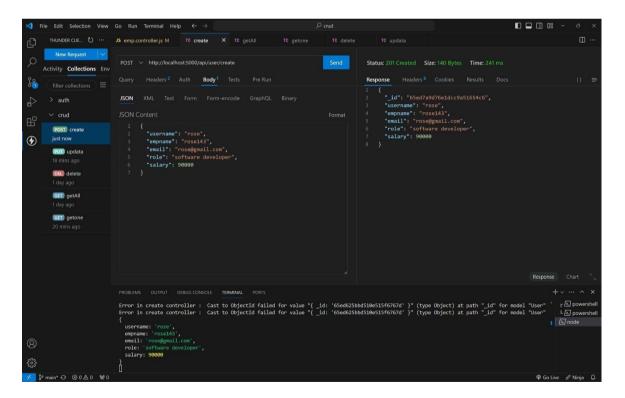
url as

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

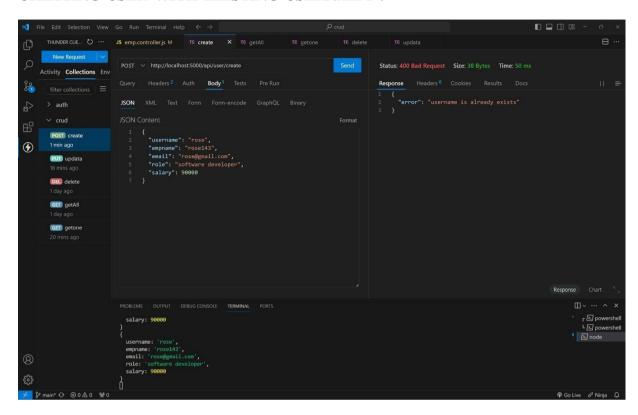
2. After sending you will deleted successfully as response.

OUTPUT:

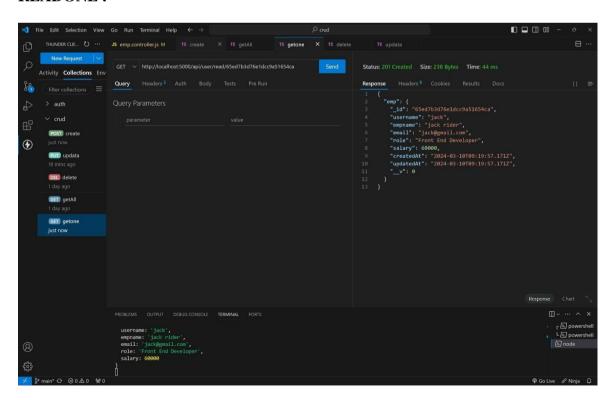
CREATE A NEW USER:



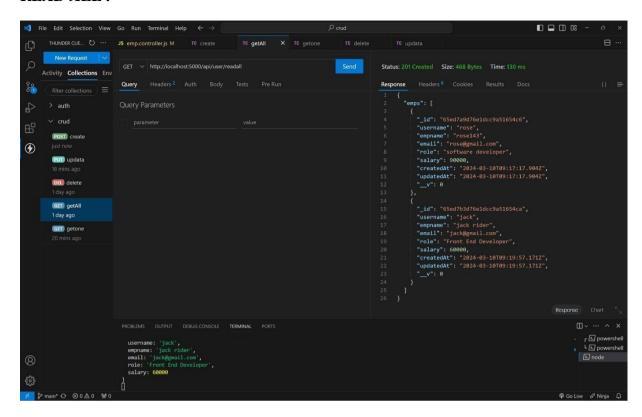
CREATING USER WITH EXISTING USERNAEM:



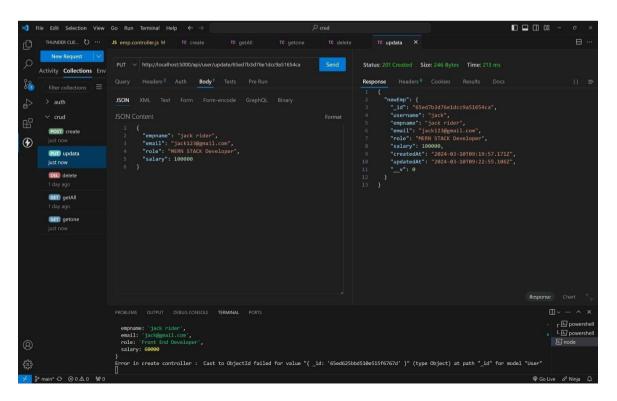
READONE:



READ ALL:



UPDATE:



DELETE:

