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:

```
O
                                                                    C+ C+ U S api > model > JS emp.model.js > (@) userSchema > /9 role
1 import mongoose from 'mongoose';
const userSchema = new mongoose.Schema({
   username: {
      type:String,
      unique:true,
      required:true
             JS emp.controller.js
∨ • db
             JS connectToD8.js

✓ 📢 model
                   JS emp.model.js
            ✓ 

routers

JS user.routes.js
                                                                                                                    empname:{
    type:String,
    required:true
            > client
> node_modules
.env
                  package.json
                                                                                                            },{timestamps:true})
                                                                                                                                                                                                                                                                                            > 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

BB connected successfully
> OUTLINE > TIMELINE
```

ROUTES:

```
## PACRIMS CUTFUL DESIGNANCE | THAMINAL FORTS | THAMINAL
```

CONTROLLERS:

CREATE:

```
| Fine East Selection View | Go | Run | Terminal | Help | C | Prince | Prin
```

READALL:

```
| Prince | Selection | View | So | Run | New | Help | Component | Prince |
```

READONE:

UPDATE:

DELETE:

HOW TO RUN ON LOCALLY:

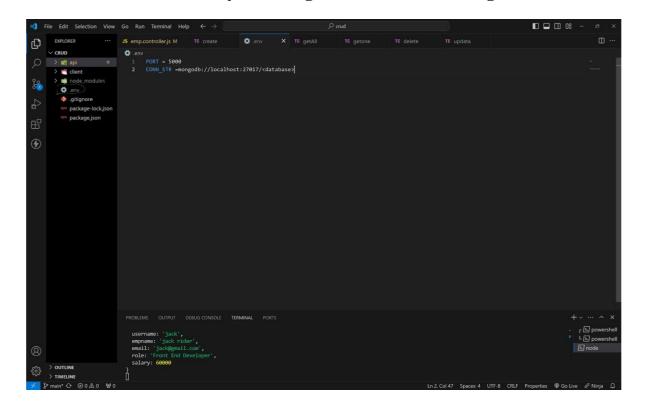
- 1. Create a folder as any name.
- 2. Open that folder in any code editor (vs code).
- 3. Open terminal ($ctrl + \sim$) on code editor.
- 4. Type this code to get code locally.

https://github.com/ponalaprasad/20KH1A0474-PONALA-

PRASAD/upload/main/Assignments

- 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

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

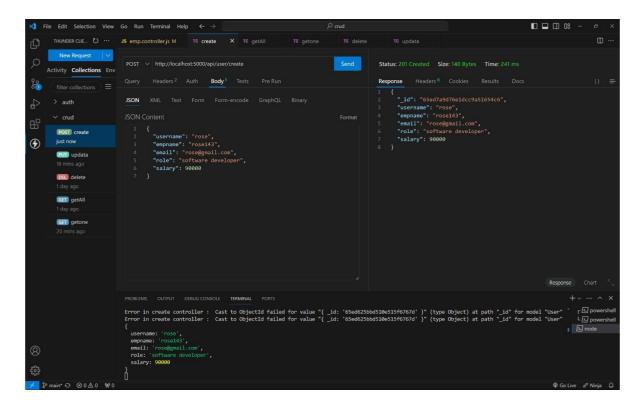
url as

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

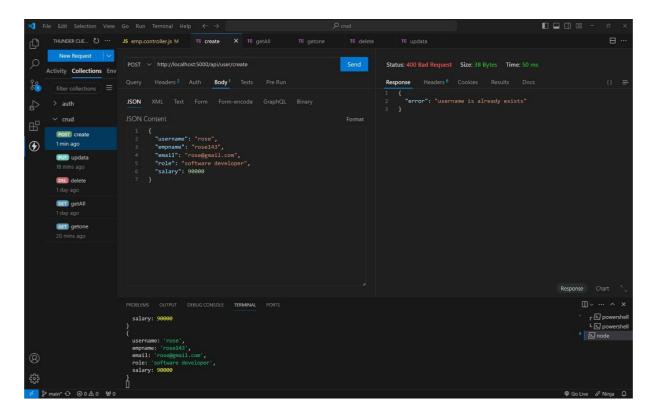
2. After sending you will deleted successfully as response.

OUTPUT:

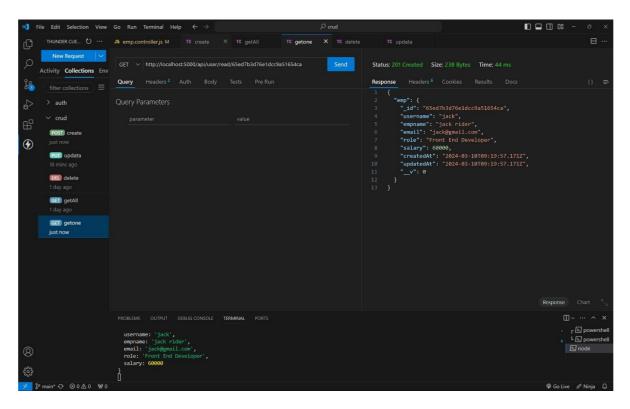
CREATE A NEW USER:



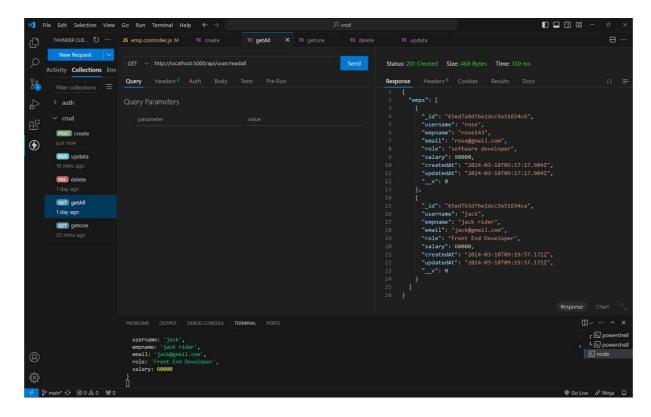
CREATING USER WITH EXISTING USERNAEM:



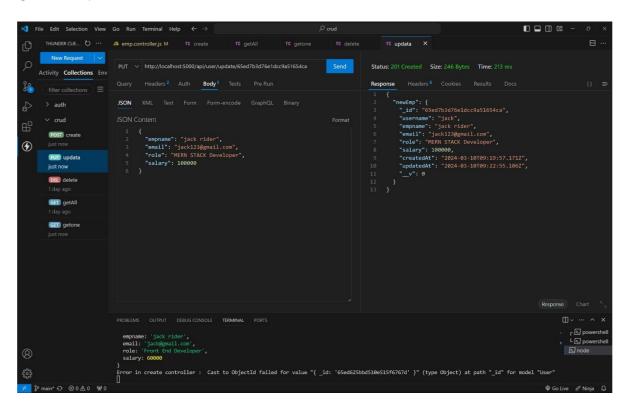
READONE:



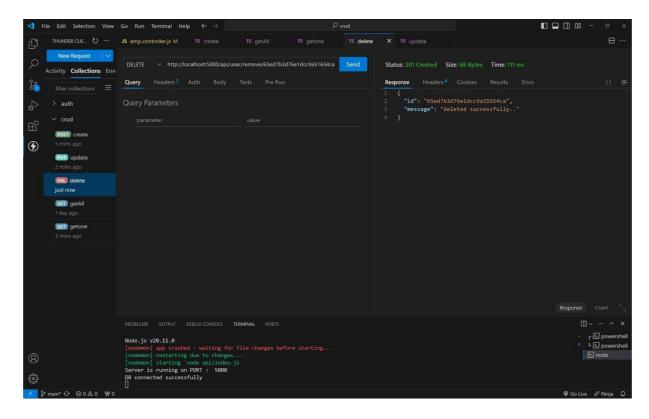
READ ALL:



UPDATE:



DELETE:



SOURCE CODE: https://github.com/ponalaprasad/20KH1A0474-PONALA-PRASAD/upload/main/Assignments