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

Name: AKULA DHANA LAKSHMI

Email Id: dhanalakshmiakula27@gmail.com

Phone No: 9392276633

Roll No: 20NN1A1265

College Name: Vignan's Nirula Institute Of Technology and Science for Women

sourcecode:

index.jsfile:

MONGODBCONNECTION:

MODEL:

```
c
                                                                     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
              JS emp.model.js

V 
routers

JS user.routes.js
                                                                                                                      empname:{
    type:String,
    required:true
                                                                                                                   },
email:{
    type:String,
    required:true
            > client
> node_modules
                 gitignorepackage-lock.json
                  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:

CONTROLLERS:

CREATE:

READALL:

```
| Prime | Ref | Selection | View | Go | Run | New | Prime | New | Prime | Prim
```

READONE:

UPDATE:

DELETE:

HOWTORUNONLOCALLY:

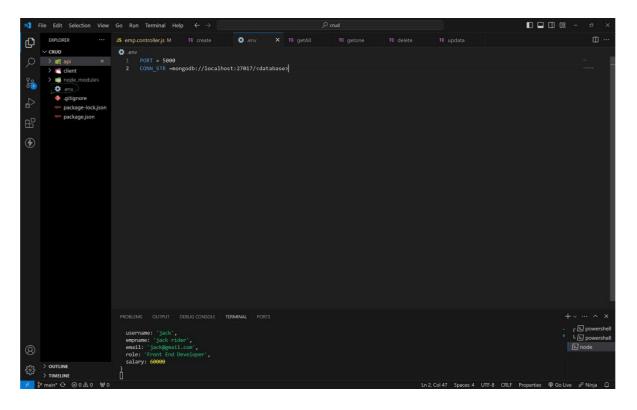
- 1. Createafolderasanyname.
- 2. Openthatfolderinanycodeeditor(vscode).
- 3. Openterminal(ctrl+~) oncodeeditor.
- ${\bf 4.} \ \ Type this code to get code locally.$

gitclone https://github.com/4727yesuraju/crud.git

- 5. Nowmovetocrudfolder(cdcrudinterminal)
- 6. Ignoreclientfolder.
- 7. Herecrudisrootfolder.
- 8. Inrootfoldercreatea.envfileandcreateaPORTand CONN_STRvariables and assign value.

ex:PORT=3000 (commonlyanynumberbetween3000-8080).

CONN_STR=yourmongodb_connection_string.



---troubleinaboveprocess?:

simplypastethiscodein.envfile.

PORT= 5000

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

9. Afterinterminal(incrudfolderasrootfolder)typethiscommandto run server.

 $npmi (installing all dependencies) \ npm$

run dev (to run server)

10. ifyougetbelowmessageinterminalthenyourserverwillrunning 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
```

routeanditsfunctionality:

Forthis useanyAPIusingtoolslikePostmanorThunderClient. i use THUNDER CLIENT.

CREATEROUTE:

1. Thisrouteisusedtocreatea newemployeeindatabasewitha below fields.

username,empname,email,role,salary

2. inthunderclientclickonnewrequestandselectthisoptions method as post

urlas http://localhost:5000/api/user/create

passthisjsondataasabodyasyourrequiredvalue.

```
{
"username": "jack",
"empname": "jack rider",
"email": "jack@gmail.com",
"role":"FrontEndDeveloper",
"salary": 60000
}
```

 ${\bf 3.}\ finally pressend to insert data in mongodb\ database and get a$

inserted

dataasaresponse.

 ${\bf 4.}\ \ If user is already in dbit will return User is already exist as$

response.

for more details visit below output images...

READONE:

1. Thisrouteisusedtoreadspecificuserinfobypassingthat userid as a param.

methodasget

url as

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

2. Aftersendingyouwillgetthatspecificuserdetailsasresponse.

READALL:

1. Readallrouteisusedtogetalltheuserdataexistinginthemongodb data

base.

methodasget

urlas http://localhost:5000/api/user/readall

2. Aftersendingyouwillgetthatalluserdetailsasresponse.

UPDATE:

1. Thisrouteisusedto updatespecificuserbypassingthatuseridas a

param.

methodasput

url as

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

2. Aftersendingyouwillgetupdateduserdetailsasresponse.

DELETE:

1. Thisrouteisusedtodeletespecificuserbypassingthatuseridas a param.

methodasdelete

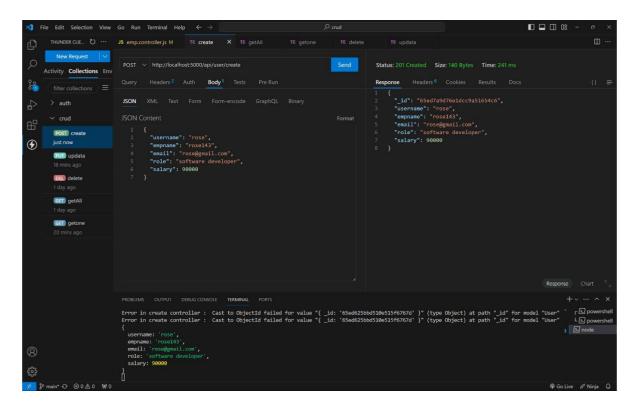
url as

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

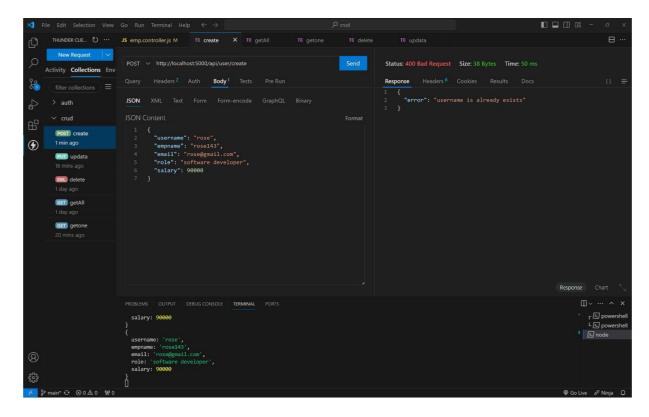
2. Aftersendingyouwilldeletedsuccessfullyasresponse.

OUTPUT:

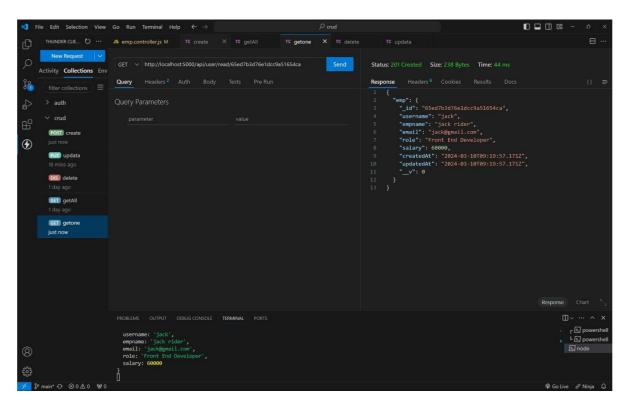
CREATEANEWUSER:



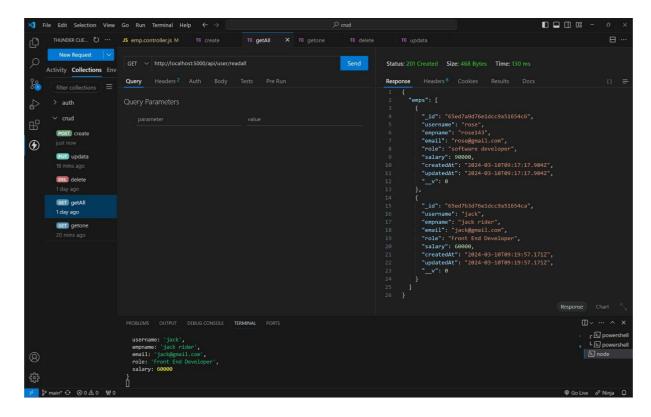
CREATINGUSERWITHEXISTINGUSERNAEM:



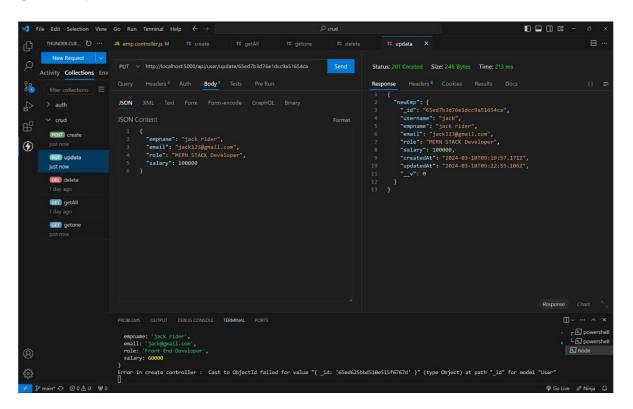
READONE:



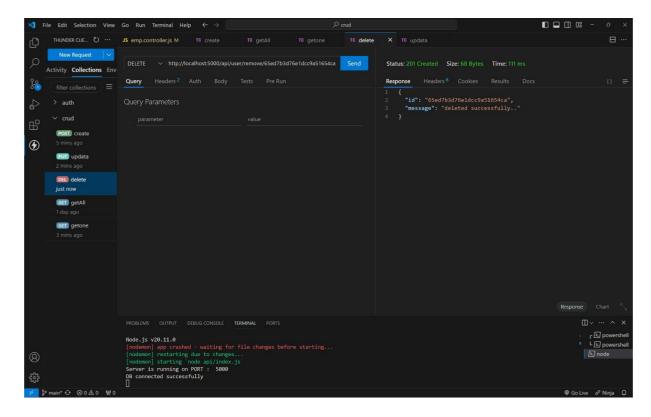
READALL:



UPDATE:



DELETE:



SOURCECODE: https://github.com/4727yesuraju/crud.git

LIVEDEMO: https://yesu-crud.onrender.com