

Mern Stack Assignment-3

Creating Restful API using express.js and creating a database and index in mongodb

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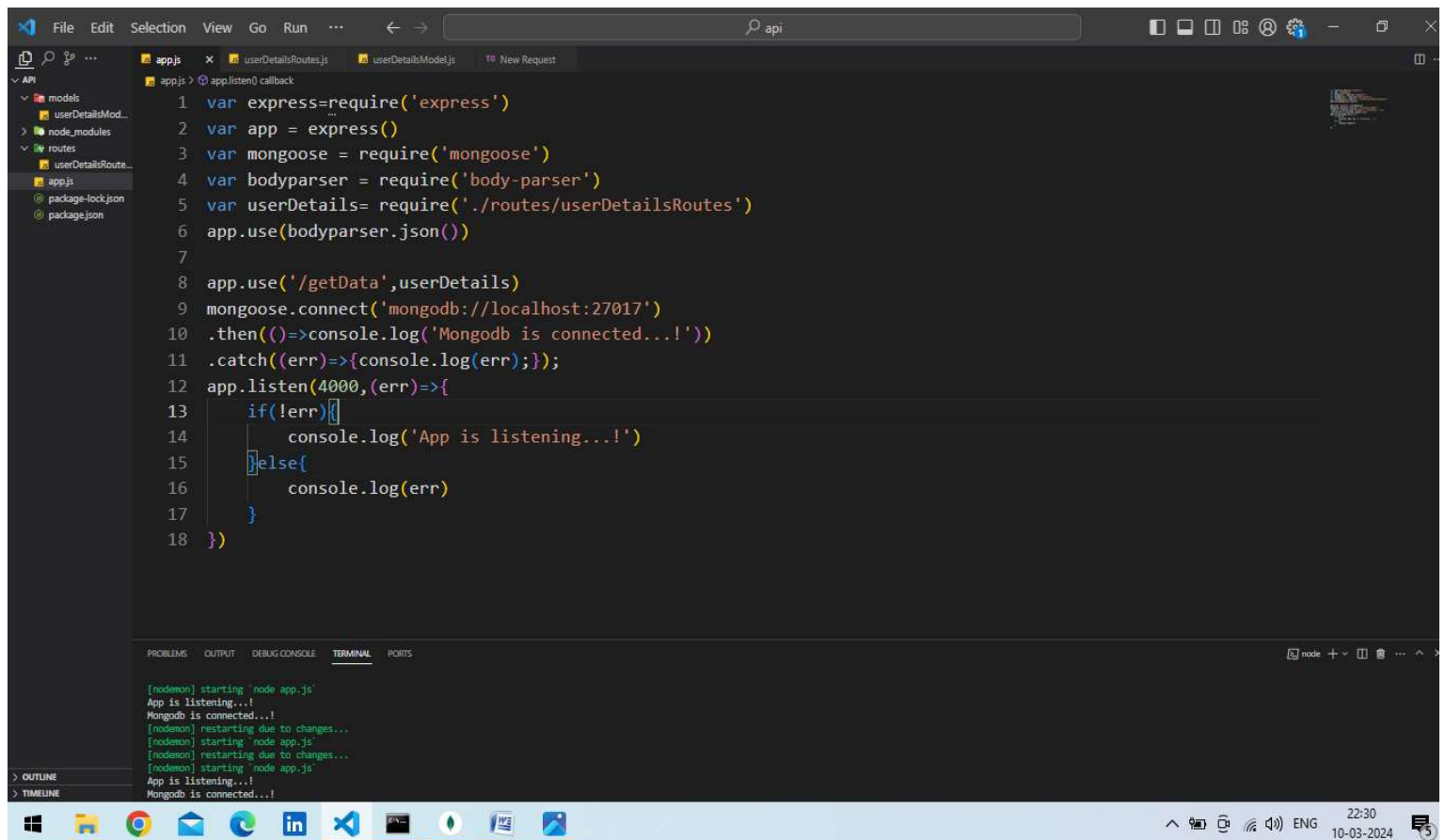
Phone no 8688639590

Rollno:213637102012

College Name : Svd Gdc(w),Nidadavole,EastGodavari,A.P.

SOURCE CODE:

App.js and Mongodb Connection:

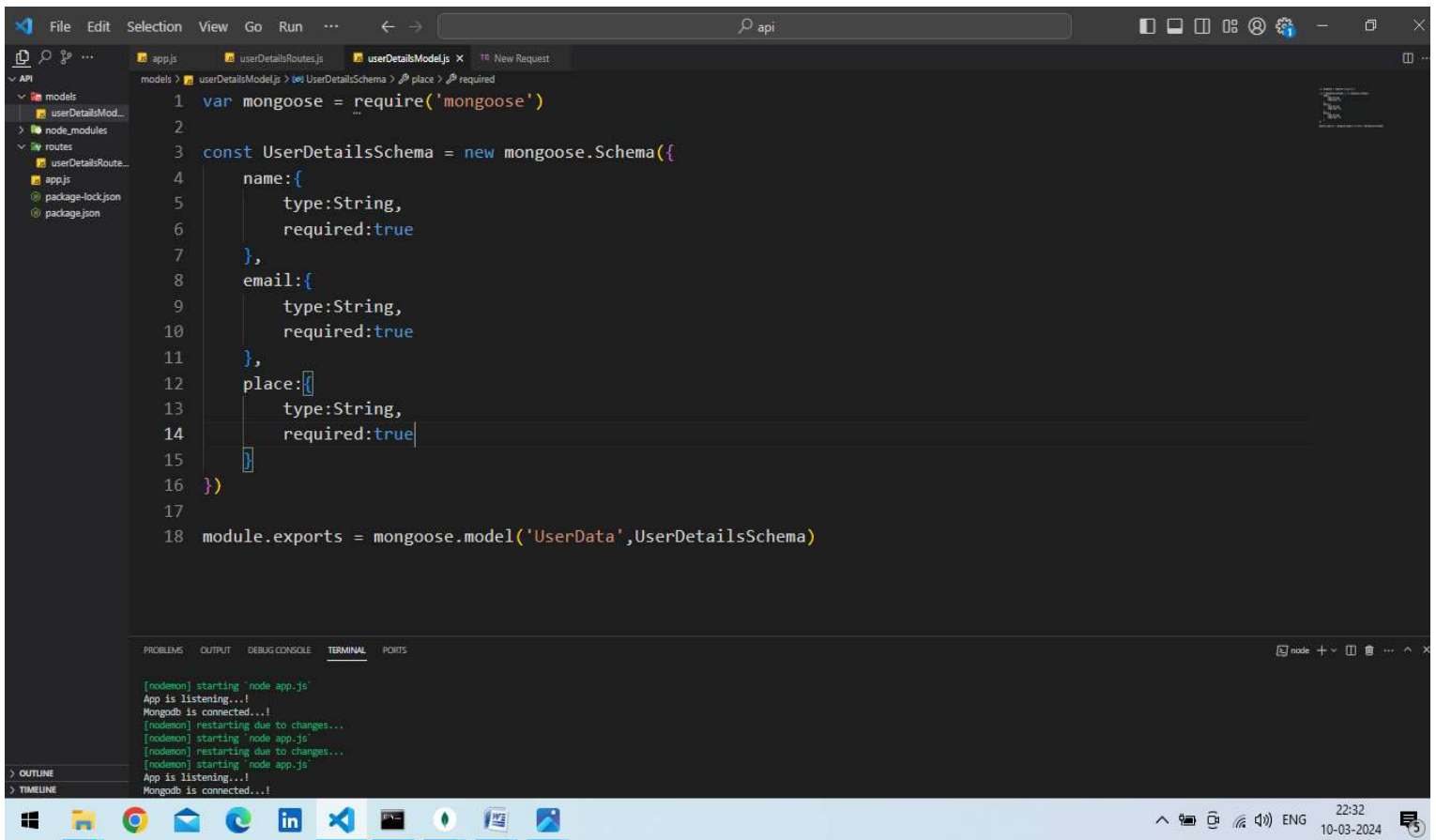


```
1 var express=require('express')
2 var app = express()
3 var mongoose = require('mongoose')
4 var bodyparser = require('body-parser')
5 var userDetails= require('./routes/userDetailsRoutes')
6 app.use(bodyparser.json())
7
8 app.use('/getData',userDetails)
9 mongoose.connect('mongodb://localhost:27017')
10 .then(()=>console.log('Mongodb is connected...!'))
11 .catch((err)=>{console.log(err);});
12 app.listen(4000,(err)=>{
13   if(err){
14     console.log('App is listening...!')
15   }else{
16     console.log(err)
17   }
18 })
```

Terminal Output:

```
[nodemon] starting 'node app.js'
App is listening...!
Mongodb is connected...!
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
App is listening...!
Mongodb is connected...!
```

Model:

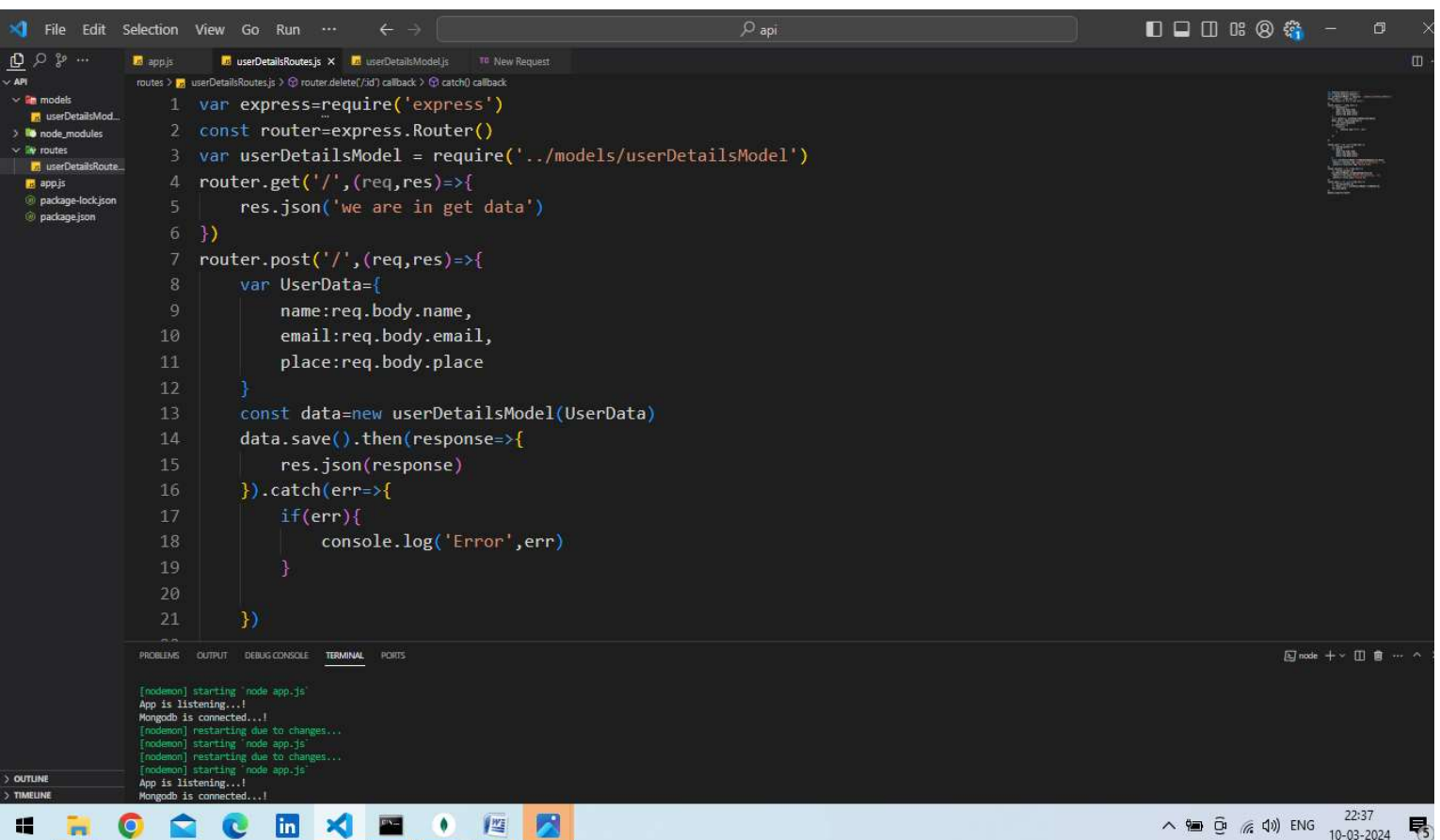


```
1 var mongoose = require('mongoose')
2
3 const UserDetailsSchema = new mongoose.Schema({
4   name:{
5     type:String,
6     required:true
7   },
8   email:{
9     type:String,
10    required:true
11  },
12  place:{
13    type:String,
14    required:true
15  }
16 })
17
18 module.exports = mongoose.model('UserData',UserDetailsSchema)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[nodemon] starting 'node app.js'
App is listening...!
MongoDB is connected...!
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
App is listening...!
MongoDB is connected...!
```

Routes:



```
1 var express=require('express')
2 const router=express.Router()
3 var userDetailsModel = require('../models/userDetailsModel')
4 router.get('/',(req,res)=>{
5   res.json('we are in get data')
6 })
7 router.post('/',(req,res)=>{
8   var UserData={
9     name:req.body.name,
10    email:req.body.email,
11    place:req.body.place
12  }
13  const data=new userDetailsModel(UserData)
14  data.save().then(response=>{
15    res.json(response)
16  }).catch(err=>{
17    if(err){
18      console.log('Error',err)
19    }
20  })
21 })
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
[nodemon] starting 'node app.js'
App is listening...!
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[nodemon] starting 'node app.js'
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
App is listening...!
MongoDB is connected...!
```

```
22
23
24
25 router.put('/:id', async (req, res) => {
26   var id = req.params.id
27   var data = {
28     name: req.body.name,
29     email: req.body.email,
30     place: req.body.place
31   }
32   await userDetailsModel.findByIdAndUpdate(id, data)
33   .then(() => console.log('updated Successfully....'))
34   .catch(() => { console.log('Failed'); });
35 })
36 router.delete('/:id', (req, res) => {
37   var id = req.params.id
38   userDetailsModel.findByIdAndDelete(id)
39   .then(() => res.json('Delete Successfully...'))
40   .catch(() => { res.json('Failed'); })
41 })
42 router.get('/:id', async (req, res) => {
```

```
[nodemon] starting 'node app.js'
App is listening...!
MongoDB is connected...!
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[nodemon] starting 'node app.js'
[nodemon] restarting due to changes...
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App is listening...!
MongoDB is connected...!
```

```
28   name: req.body.name,
29   email: req.body.email,
30   place: req.body.place
31 }
32 await userDetailsModel.findByIdAndUpdate(id, data)
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36 router.delete('/:id', (req, res) => {
37   var id = req.params.id
38   userDetailsModel.findByIdAndDelete(id)
39   .then(() => res.json('Delete Successfully...'))
40   .catch(() => { res.json('Failed'); })
41 })
42 router.get('/:id', async (req, res) => {
43   var id = req.params.id
44   var data = await userDetailsModel.findById(id)
45   res.json(data)
46 })
47 module.exports = router
```

```
[nodemon] starting 'node app.js'
App is listening...!
MongoDB is connected...!
[nodemon] restarting due to changes...
[nodemon] starting 'node app.js'
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App is listening...!
MongoDB is connected...!
```

Approach:

*npm i (installing all dependencies)

*npm start (to run server)

*npm i mongoose express

*now we get below image like

```
PS C:\Users\Queen\Desktop\api> npm i

up to date, audited 1 package in 1s

found 0 vulnerabilities
PS C:\Users\Queen\Desktop\api> npm i mongoose express body-parser

added 84 packages, and audited 85 packages in 34s

13 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
PS C:\Users\Queen\Desktop\api> 
```

*next now we connect mongodb

```
PS C:\Users\Queen\Desktop\api> npm start

> api@1.0.0 start
> nodemon app.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 app.js`
App is listening...!
Mongodb is connected...!

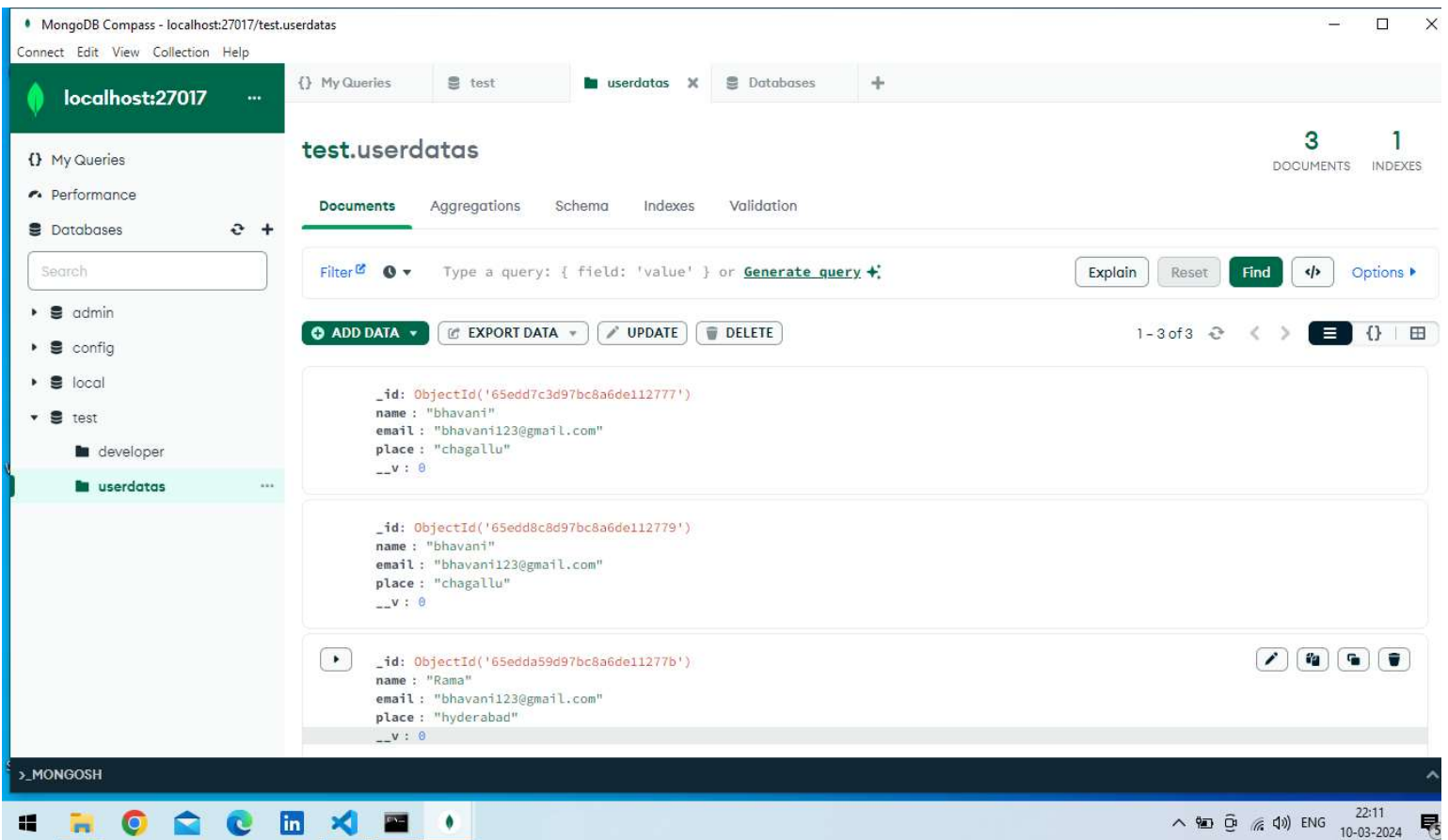
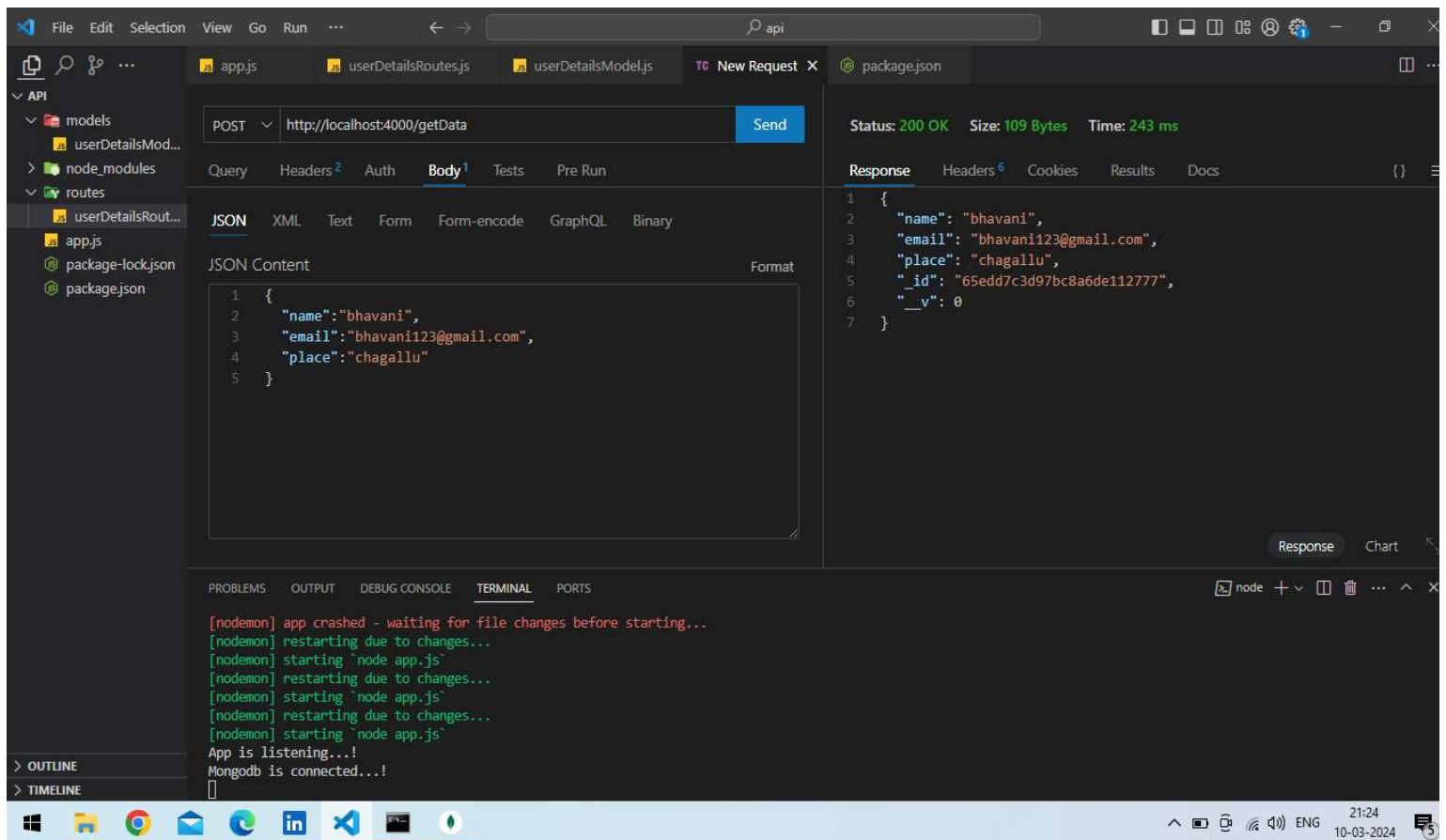
```

*I use thunder client in the process creating RESTful API

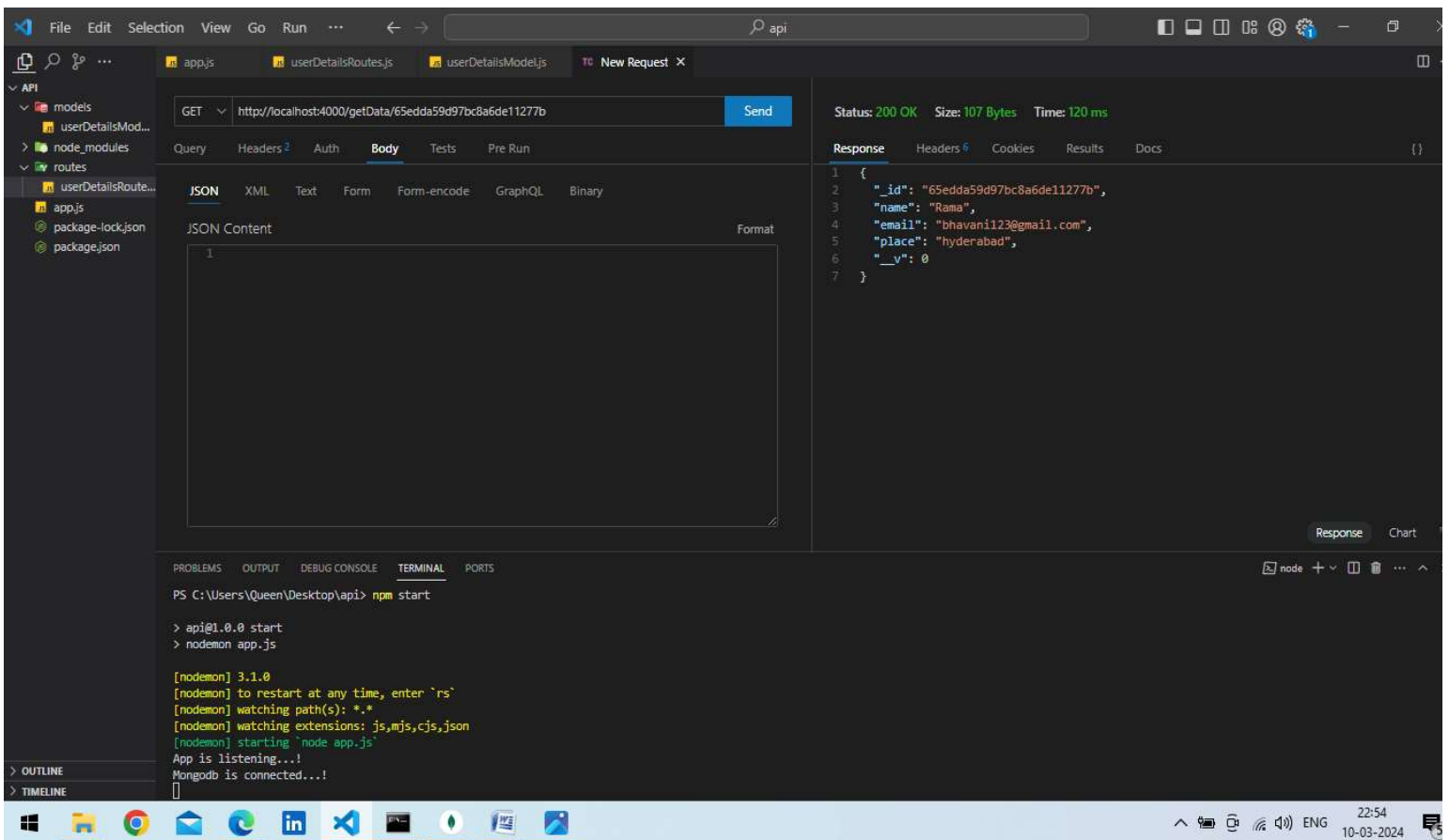
*I creating routes for inserting, retrieving, updating and deleting data on server side from the client request.

OUTPUT:

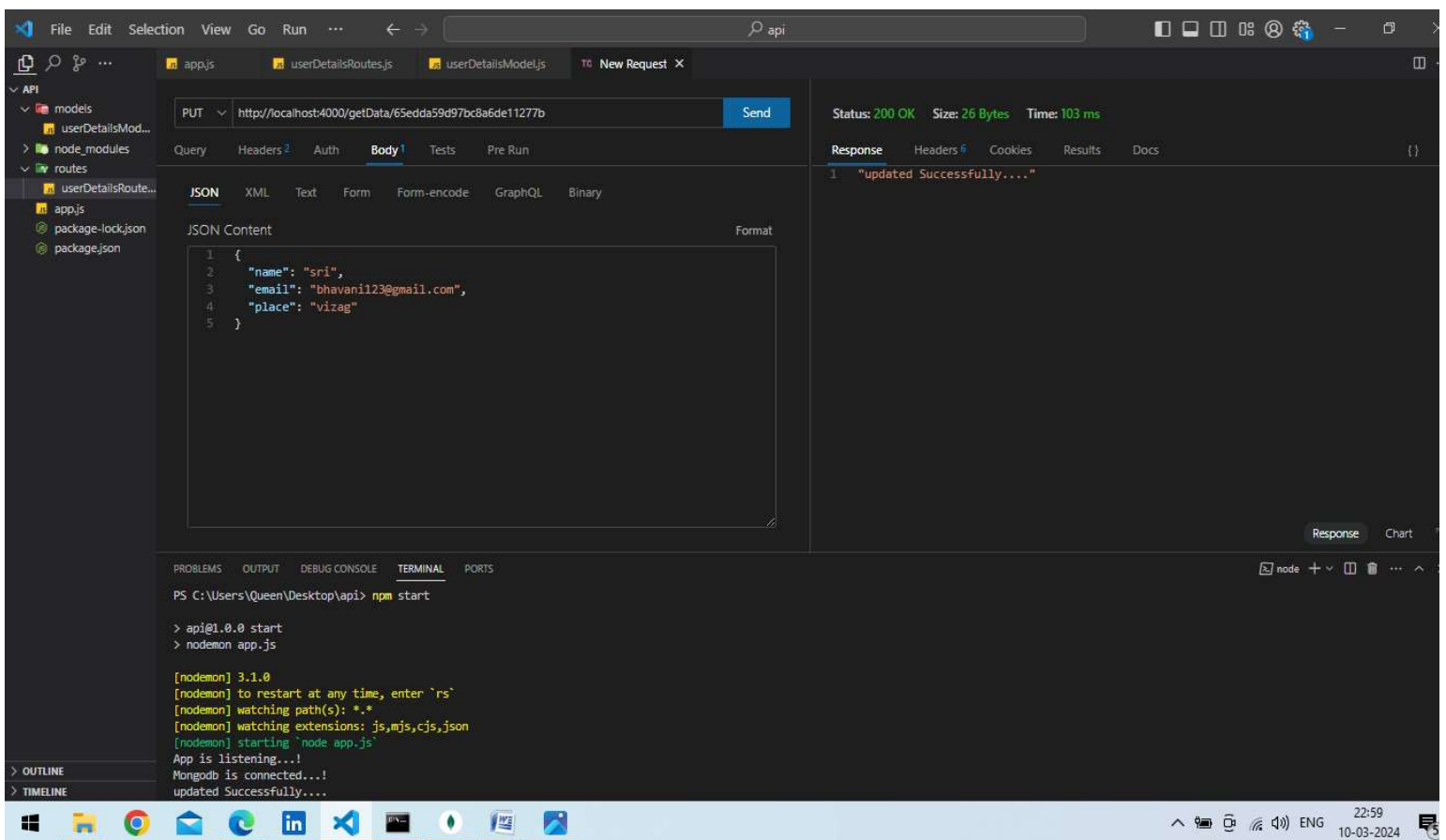
Create a New User:

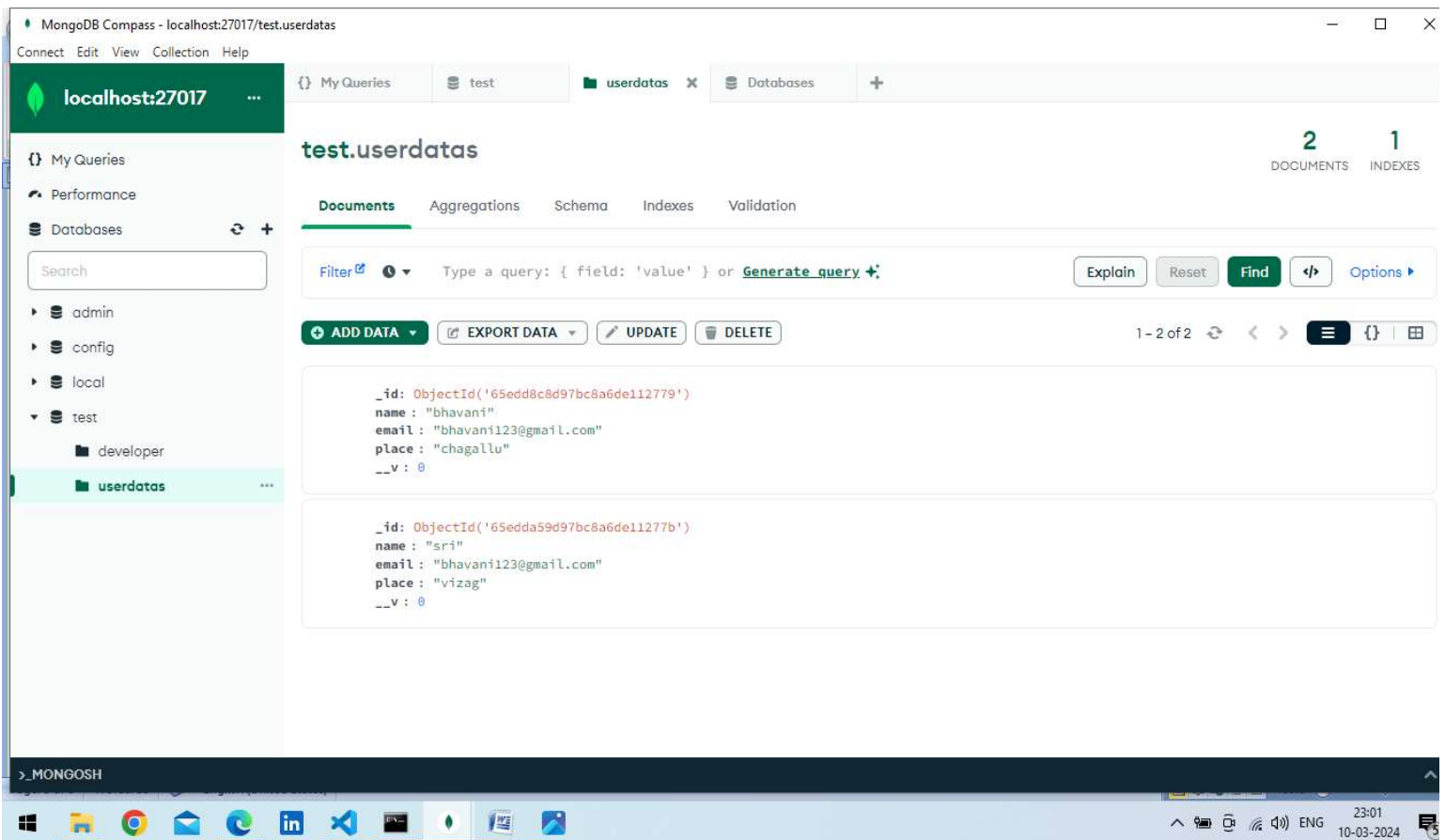


Read a User:

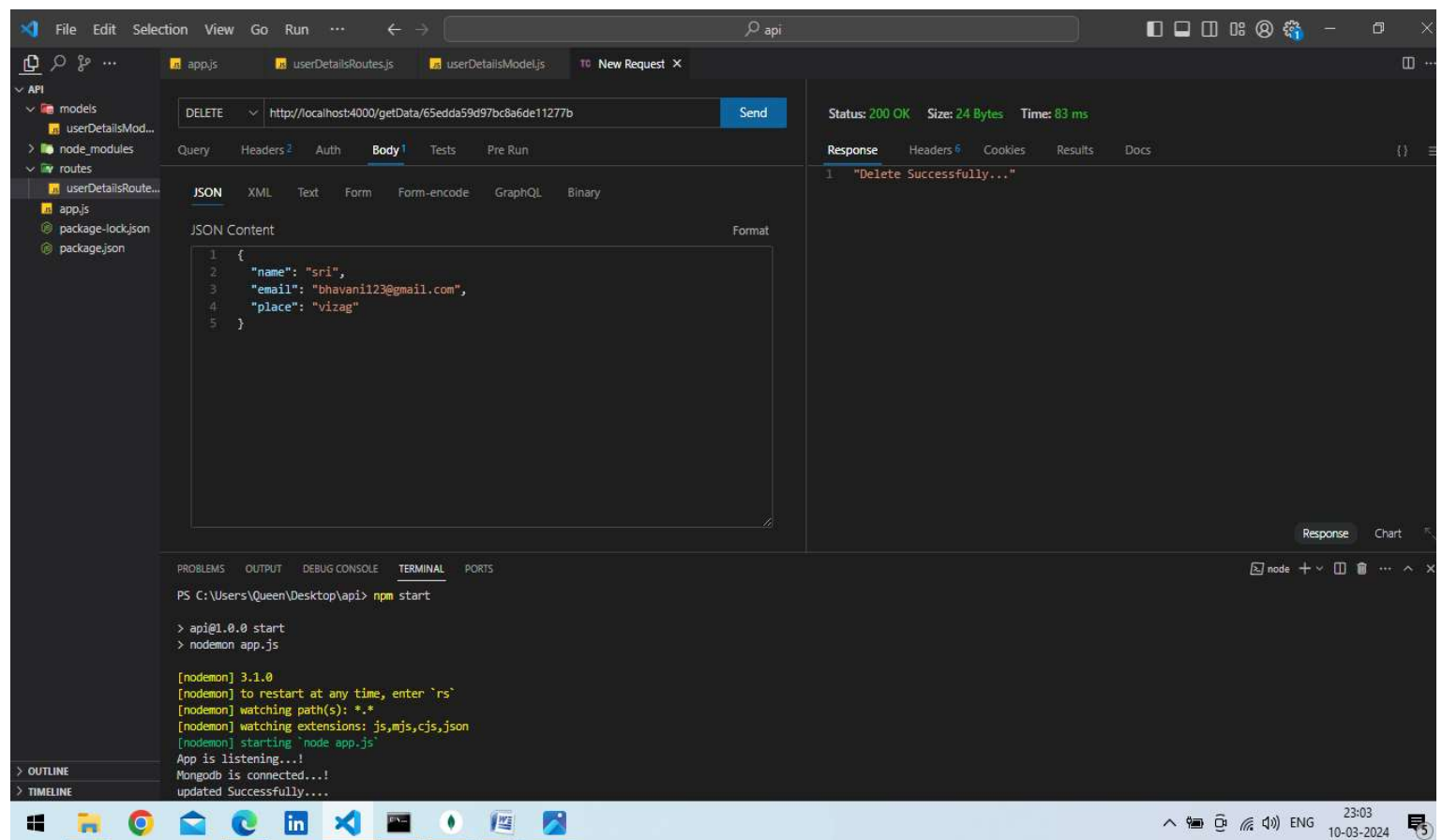


Update a UserDetails:





Delete a user:



MongoDB Compass - localhost:27017/test.userdatas

Connect Edit View Collection Help

localhost:27017

My QueriestestuserdatasDatabases

My QueriesPerformanceDatabases

Search

adminconfiglocaltestdeveloperuserdatas

test.userdatas

11DOCUMENTSINDEXES

DocumentsAggregationsSchemaIndexesValidation

FilterType a query: { field: 'value' } or Generate query

ExplainResetFindOptions

ADD DATAEXPORT DATAUPDATEDELETE

1 - 1 of 1

```
_id: ObjectId('65edd8c8d97bc8a6de112779')
name: "bhavani"
email: "bhavani123@gmail.com"
place: "chagallu"
__v: 0
```

> _MONGOSH

Windows taskbar with icons for File Explorer, Chrome, Mail, Edge, LinkedIn, VS Code, and others.

System tray showing network, volume, and language (ENG) settings, along with the date and time: 23:04 10-03-2024.