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CREAT RESTFUL API USING EXPRESS.JS AND CREAT DATABASE AND INDEX USING MONGODB

SOURCE CODE:

Index.js:

```
require('dotenv').config();

const express = require('express');
const mongoose = require('mongoose');
const mongoData = process.env.DATABASE_URL;

mongoose.connect(mongoData);
const app = express();

database.on('error' (error) => {
  console.log(error)
});

database.once('connected', () => {
  console.log('Database Connected')
})

const data = mongoose.connection;

database.on('error', (error) => {
  console.log(error)
})

database.once('connected', () => {
```

```

        console.log('Database Connected');
    })

    app.use(express.json());

    const routes = require('./routes')

    app.use('/API');

    app.listen(4000, () => {
        console.log(`Server Started at ${4000}`)
    })

```

Route.js:

```

const express = require('express');

const router = express.Router()
const Model = require('../models/model');

module.exports = router;

//Post API
router.post('/post', (req, res) => {
    const data = new Model({
        name: req.body.name,
        age: req.body.age
    })

    try {
        const dataToSave = await data.save();
        res.status(200).json(dataToSave)
    }
    catch (error) {
        res.status(400).json({message: error.message})
    }
})

//Get all API
router.get('/getAll', (req, res) => {
    try{
        const data = await Model.find();
        res.json(data)
    }
    catch(error){
        res.status(500).json({message: error.message})
    }
})

```

```

    }
  })

  //Get by ID API

  router.get('/getOne/:id', async (req, res) => {
    try{
      const data = await Model.findById(req.params.id);
      res.json(data)
    }
    catch(error){
      res.status(500).json({message: error.message})
    }
  })

  //Update by ID API
  router.patch('/update/:id', (req, res) => {
    try {
      const id = req.params.id;
      const updatedData = req.body;
      const options = { new: true };

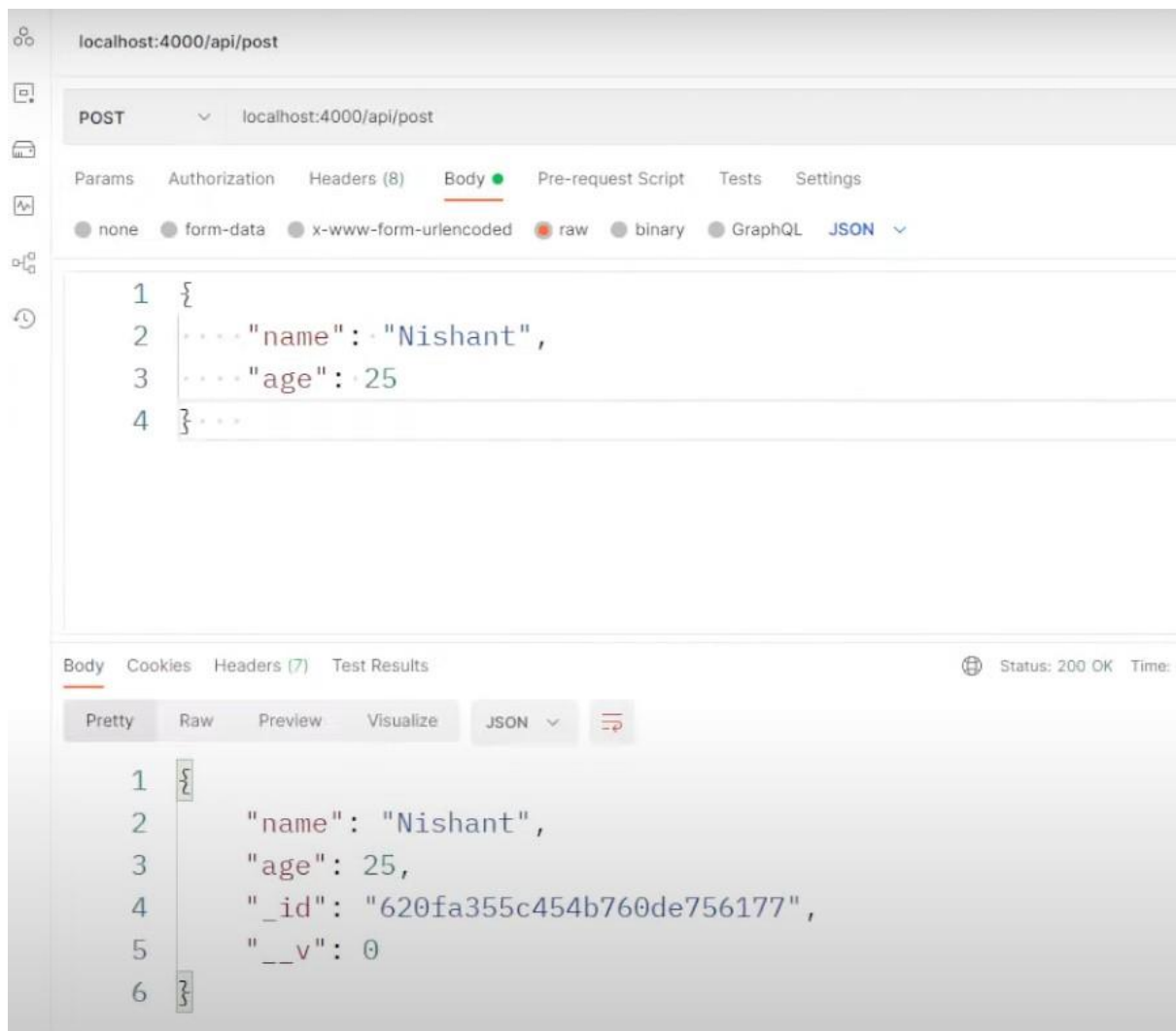
      const result = await Model.findByIdAndUpdate(
        id, updatedData, options
      )

      res.send(result)
    }
    catch (error) {
      res.status(400).json({ message: error.message })
    }
  })

  //Delete by ID API
  router.delete('/delete/:id', (req, res) => {
    try {
      const id = req.params.id;
      const data = await Model.findByIdAndDelete(id)
      res.send(`Document with ${data.name} has been deleted..`)
    }
    catch (error) {
      res.status(400).json({ message: error.message })
    }
  })
})

```

Post data to database:



Get data to database:

localhost:4000/api/getAll

GET localhost:4000/api/getAll

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

1

Body Cookies Headers (7) Test Results Status: 200 OK Time: 407 ms

Pretty Raw Preview Visualize JSON

```
{
  "_id": "620fa33d5856a71ae2f4afc7",
  "name": "Nishant",
  "age": 25,
  "__v": 0
},
{
  "_id": "620fa355c454b760de756177",
  "name": "Nishant",
  "age": 25,
  "__v": 0
},
{
  "_id": "620fa38cc454b760de75617b",
  "name": "Uday",
  "age": 25,
  "__v": 0
}
```

Get data based on the ID:

The screenshot displays a REST client interface with the following details:

- URL:** localhost:4000/api/getOne/620fa38cc454b760de75617b
- Method:** GET
- Body:** A JSON object with the following structure:

```
1 {
2   "name": "Uday",
3   "age": 25
4 }
```
- Response:** A JSON object with the following structure:

```
1 {
2   "_id": "620fa38cc454b760de75617b",
3   "name": "Uday",
4   "age": 25,
5   "__v": 0
}
```
- Status:** 200 OK, Time: 362

Udata based on ID:

The screenshot displays a REST client interface with a sidebar on the left containing icons for collections, environment, history, and a clock. The main panel shows a PATCH request to the endpoint `localhost:4000/api/patch/620e3dea378a200a2c011c09`. The request body is a JSON object: `{ "name": "Nishant", "age": 25 }`. Below the request, the response is shown with a status of 200 OK and a time of 389 ms. The response body is a JSON object: `{ "_id": "620e3dea378a200a2c011c09", "date": "2022-02-17T12:18:17.072Z", "name": "Nishant", "age": 25, "__v": 0 }`.

localhost:4000/api/patch/620e3dea378a200a2c011c09

PATCH localhost:4000/api/patch/620e3dea378a200a2c011c09

Params Authorization Headers (8) Body Pre-request Script Tests Settings

none form-data x-www-form-urlencoded raw binary GraphQL JSON

```
1 {
2   "name": "Nishant",
3   "age": 25
4 }
```

Body Cookies Headers (7) Test Results

Status: 200 OK Time: 389 ms

Pretty Raw Preview Visualize JSON

```
1 {
2   "_id": "620e3dea378a200a2c011c09",
3   "date": "2022-02-17T12:18:17.072Z",
4   "name": "Nishant",
5   "age": 25,
6   "__v": 0
7 }
```

Delete data based on ID:

GET localhost:4000/ap...

GET localhost:4000/ap...

DEL localhost:4000/api...

+

...

localhost:4000/api/delete/620e3dea378a200a2c011c09

DELETE

localhost:4000/api/delete/620e3dea378a200a2c011c09

Params

Authorization

Headers (6)

Body

Pre-request Script

Tests

Settings

Query Params

KEY	VALUE	DESCRIPTION
Key	Value	Description

Body

Cookies

Headers (7)

Test Results

Status: 200 OK

Time:

Pretty

Raw

Preview

Visualize

HTML

1

620e3dea378a200a2c011c09 has been Deleted