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# CREATING RESTFUL API USING EXPRESS.JS AND CREATING DATABASE AND INDEX USING MONGODB

#### **SOURCE CODE:**

### Server.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(3000, () => {
console.log(`Server is running on port
3000`)
})
```

# 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})
})
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) => {
               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 {
${data.name} has been deleted..`)
   catch (error) {
       res.status(400).json({ message: error.message })
})
```

# Model.js:

```
vStart

> express-api@1.0.0 devStart
> nodemon server.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 server.js`
> outline
> timeline
```

# post data to database:

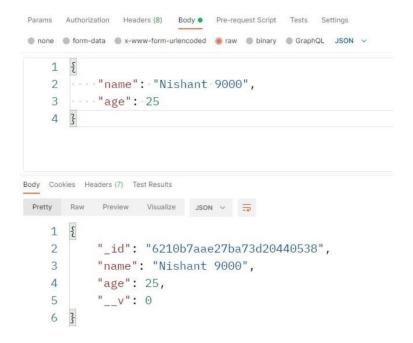
```
Body Cookies Headers (7) Test Results
Pretty Raw Preview Visualize JSON V 🖘
   1 [
   2
              "_id": "6210b7aae27ba73d20440538",
   3
   4
             "name": "Nishant",
   5
              "age": 25,
              "__v": 0
   7
             "_id": "6210b8867cbb0cdd2ba9e578",
   9
          "name": "Nishant",
   10
             "age": 25,
   11
              "__v": 0
   12
   13
   14 ]
```

#### Get data to database:

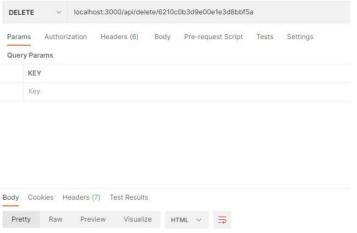
```
Body Cookies Headers (7) Test Results
Pretty Raw Preview Visualize JSON V
   1 [
    2
   3
               "_id": "6210b7aae27ba73d20440538",
               "name": "Nishant",
               "age": 25,
   5
              "__v": 0
   7
   8
               "_id": "6210b8867cbb0cdd2ba9e578",
          "_id": "BZ1000000"
"name": "Nishant",
"age": 25,
   9
  10
  12
              "__v": 0
  13
  14 ]
```

# get data based on the ID:

# update data based on ID:



#### delete data based on ID:



1 Document with Nishant has been deleted..