<u>Assignment:3:</u> A RESTful API using express.js and create a database and index in MongoDB <u>Source</u> code:

```
const express = require('express');
const mongoose =
require('mongoose'); const app =
express(); const port = 3001;
// MongoDB connection
mongoose.connect('mongodb://localhost:27017/myDatabase', { useNewUrlParser:
true, useUnifiedTopology: true }); const db = mongoose.connection;
db.on('error', console.error.bind(console, 'MongoDB connection
error:')); db.once('open', function() {         console.log('Connected to
MongoDB...');
});
// Define a schema for your data
const Schema = mongoose.Schema;
const exampleSchema = new
Schema({ name: String,
age: Number,
               salary: Number,
role: String
});
// Create a model based on the schema const Example
= mongoose.model('Example', exampleSchema); //
Express middleware for parsing JSON bodies
app.use(express.json());
// Route to create a new example
app.post('/examples', async (req, res) => {
try {
       const example = await
Example.create(req.body);
res.status(201).json(example);  } catch (err) {
res.status(400).json({ message: err.message });
});
// Route to retrieve all examples where salary and role have values
greater than 2 app.get('/examples', async (req, res) => {
```

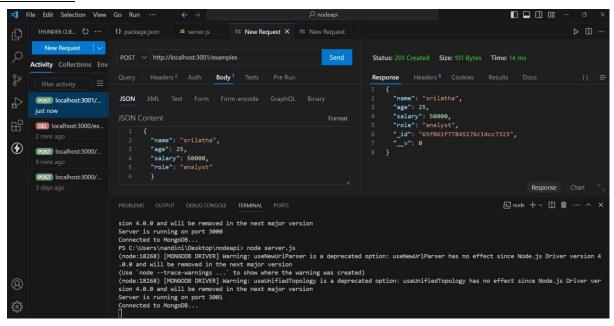
```
try {
              const examples = await
Example.find({
          $and: [
             { salary: { $gt: 2 } }, // Salary greater than 2
             { role: { $gt: 2 } } // Role greater than 2
                  });
res.json(examples);
 err.message });
});
// Route to retrieve a specific example by ID app.get('/examples/:id',
async (req, res) => { try { const example = await
Example.findById(req.params.id); if (!example) {
return res.status(404).json({ message: 'Example not found' });
               res.json(example); } catch (err)
        res.status(500).json({ message: err.message
});
});
// Route to update an example by ID app.put('/examples/:id', async
Example.findByIdAndUpdate(req.params.id, req.body, { new: true });
if (!example) {
                 return res.status(404).json({ message:
'Example not found' });
      res.json(example); } catch (err) {
res.status(400).json({ message: err.message });
});
// Route to delete an example by ID
(!example) {
                    return res.status(404).json({ message: 'Example
not found' });
              res.json({ message: 'Example deleted
successfully' });
```

```
} catch (err) {         res.status(500).json({ message:
err.message });
    }
});

// Start the server app.listen(port, () => {
console.log(`Server is running on port ${port}`); });
```

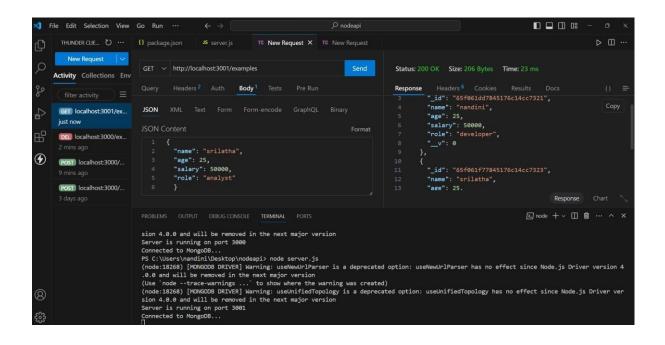
OutPut:

Post method:

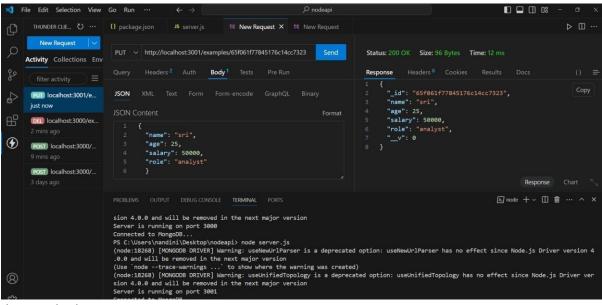


Get Method:

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Put method:



Delete method:

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