FULL STACK WITH MERN (JAVA) ASSIGNMENT-3

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ASSIGNMENT-3: Create a RESTful API using express.js and create a database and index in MongoDB

1. INDEX.JS:

```
// index.is
const express = require('express');
const mongoose = require('mongoose');
const bodyParser = require('body-parser');
const app = express();
const PORT = process.env.PORT || 4000;
// Middleware
app.use(bodyParser.json());
// Routes
const todoRoutes = require('./routes/todoRoutes');
app.use('/api/todos', todoRoutes);
// Connect to MongoDB
mongoose.connect('mongodb://localhost:27017/todoDB', { useNewUrlParser: true,
useUnifiedTopology: true })
  .then(() => {
    console.log('Connected to MongoDB');
    app.listen(PORT, () => {
      console.log(`Server is running on port ${PORT}`);
   });
  .catch(err => console.error('Error connecting to MongoDB:', err));
```

2. ROUTES (todoRoutes.js):

```
// routes/todoRoutes.js
const express = require('express');
const router = express.Router();
const Todo = require('../models/todoModel');
router.post('/', async (req, res) => {
 try {
   const todo = await Todo.create(req.body);
    res.status(201).json(todo);
 } catch (err) {
    res.status(400).json({ message: err.message });
});
router.get('/', async (req, res) => {
   const todos = await Todo.find();
   res.json(todos);
 } catch (err) {
    res.status(500).json({ message: err.message });
});
// Update a todo
router.patch('/:id', async (req, res) => {
 try {
   const todo = await Todo.findByIdAndUpdate(req.params.id, req.body, { new:
true });
   res.json(todo);
 } catch (err) {
    res.status(400).json({ message: err.message });
});
// Delete a todo
router.delete('/:id', async (req, res) => {
 try {
    await Todo.findByIdAndDelete(req.params.id);
    res.json({ message: 'Todo deleted' });
 } catch (err) {
    res.status(500).json({ message: err.message });
});
module.exports = router;
```

3. MODELS (todoModel.js):

```
// models/todoModel.js

const mongoose = require('mongoose');

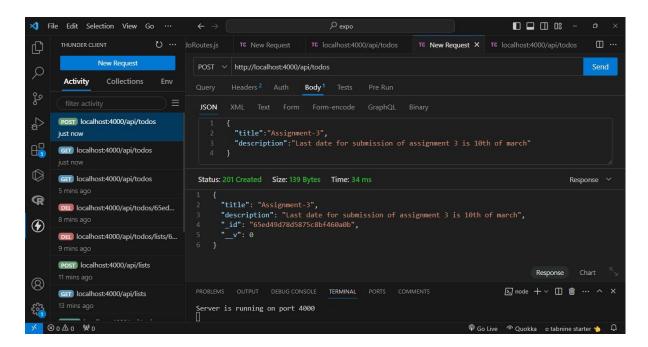
const todoSchema = new mongoose.Schema({
   title: String,
   description: String,
   completed: Boolean
});

const Todo = mongoose.model('Todo', todoSchema);

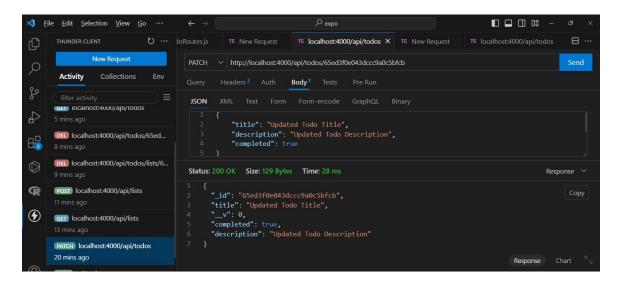
module.exports = Todo;
```

4. OUTPUT:

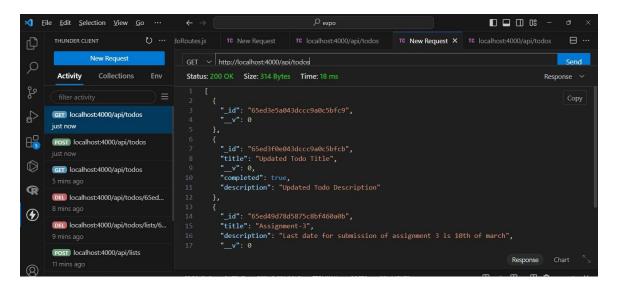
4.1 POST:



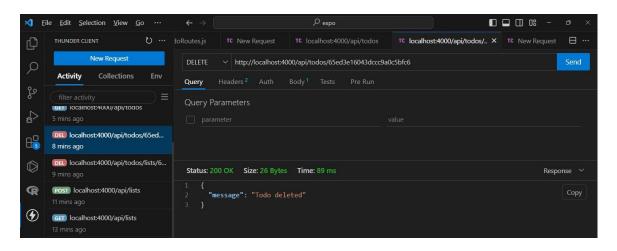
4.2 UPDATE:



4.3 GET:



4.4 DELETE:



4.5 MONGODB:

