K.Nikhita Sai

IOT-A

21011102049

App.js

```javascript
// Import necessary modules and models
const express = require('express');
const mongoose = require('mongoose');
const Task = require('./models/Task'); // Import your Mongoose model here
const app = express();
const port = 3000;
// Connect to MongoDB
mongoose.connect('mongodb://0.0.0.0:27017/my-database', {
useNewUrlParser: true,
useUnifiedTopology: true,
});
// Middleware
app.use(express.json()); // Parse JSON request bodies
// Define a route handler for creating a task (POST request)
app.post('/tasks', async (req, res) => {
try {
// Parse the request body and create a new task
const task = new Task(req.body);
await task.save();
// Send a success response (HTTP status code 201) with the created task
res.status(201).json(task);
 } catch (error) {
// Handle errors, and send an error response (HTTP status code 400)
res.status(400).json({ error: 'Could not create task' });
 }
});
// Define a route handler for retrieving all tasks (GET request)
app.get('/tasks', async (req, res) => {
try {
const tasks = await Task.find();
res.status(200).json(tasks);
 } catch (error) {
res.status(500).json({ error: 'Server error' });
 }
});
// Define a route handler for the root URL (GET request)
app.get('/', (req, res) => {
res.send('Welcome to the task management API');
});
```

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

Task.js

```javascript
const mongoose = require('mongoose');
const taskSchema = new mongoose.Schema({
title: String,
description: String,
completed: Boolean,
});
const Task = mongoose.model('Task', taskSchema);
module.exports = Task;
```

taskRoutes.js

```javascript
const express = require('express');
const router = express.Router();
// Import the Task model and set up the CRUD operations
// Define routes for tasks
router.post('/tasks', async (req, res) => {
// Create a new task
});
router.get('/tasks', async (req, res) => {
// Retrieve all tasks
});
router.get('/tasks/:id', async (req, res) => {
// Retrieve a specific task by ID
});
router.put('/tasks/:id', async (req, res) => {
// Update a task by ID
});
router.delete('/tasks/:id', async (req, res) => {
// Delete a task by ID
});
module.exports = router;
```


Welcome to the task management API