MINI PROJECT
(TASK MANAGEMENT APP USING MONGODB)

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Code :

```
const express = require('express');
const { MongoClient, ObjectId } = require('mongodb');

const app = express();
const port = 3000;
const dbName = 'taskApp';
const url = 'mongodb://localhost:27017';
const client = new MongoClient(url, { useUnifiedTopology: true });

app.use(express.json());

async function connectToMongoDB() {
  await client.connect();
  console.log('Connected to MongoDB');
}

app.get('/tasks', async (req, res) => {
  const db = client.db(dbName);
  const tasks = await db.collection('tasks').find().toArray();
  res.json(tasks);
});

app.post('/tasks', async (req, res) => {
  const { title, description } = req.body;
  const db = client.db(dbName);
  const result = await db.collection('tasks').insertOne({ title, description });
  res.status(201).json(result.ops[0]);
});

app.put('/tasks/:id', async (req, res) => {
  const taskId = req.params.id;
  const { title, description } = req.body;
  const db = client.db(dbName);
  await db.collection('tasks').updateOne(
    { _id: new ObjectId(taskId) },
```

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      { $set: { title, description } }
    );
    res.sendStatus(204);
});

app.delete('/tasks/:id', async (req, res) => {
    const taskId = req.params.id;
    const db = client.db(dbName);
    await db.collection('tasks').deleteOne({ _id: new ObjectId(taskId) });
    res.sendStatus(204);
});

connectToMongoDB()
  .then(() => {
    app.listen(port, () => {
      console.log(`Server is running on http://localhost:${port}`);
    });
  })
  .catch(console.error);
```

Output :

To retrieve all tasks:
bash

curl http://localhost:3000/tasks

```
[
  {
    "_id": "5f4a9406f36d287bf0c9b913",
    "title": "Task 1",
    "description": "Description 1"
  },
  {
    "_id": "5f4a942af36d287bf0c9b914",
    "title": "Task 2",
    "description": "Description 2"
  }
]
```

To create a new task:

bash
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```
curl -X POST -H "Content-Type: application/json" -d '{"title": "New Task", "description": "New Description"}' http://localhost:3000/tasks
```

json

```
{
  "_id": "5f4a9450f36d287bf0c9b915",
  "title": "New Task",
  "description": "New Description"
}
```