

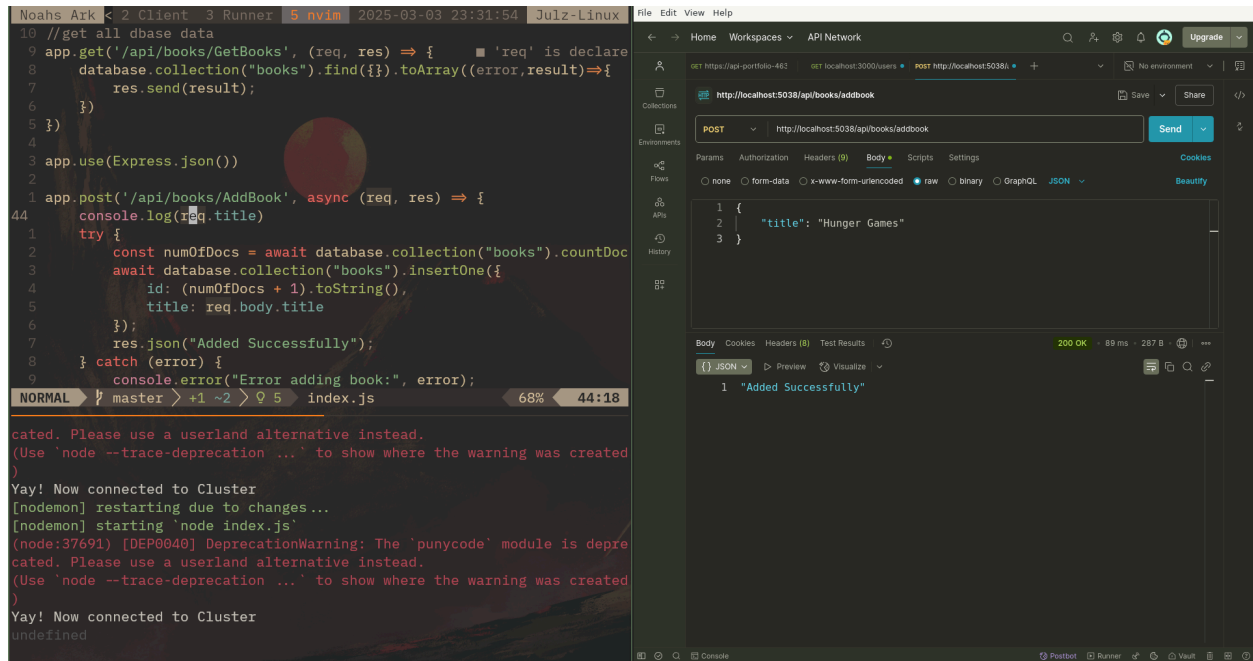
Changed the connection string to the one given by mongodb in order for the get request to work correctly with my database

GET REQUEST

```
JS index.js X
api > JS index.js > app.listen() callback
1 //This file is saved inside the 'api' folder.
2
3 // Import all packages installed
4 var Express = require('express');
5 var MongoClient = require('mongodb').MongoClient;
6 var cors = require('cors');
7 const multer = require('multer');
8
9 //Create an instance of express app
10 var app=Express();
11 //Make use of the CORS module
12 app.use(cors());
13
14 //Indicate the connection string from mongodb
15 var CONNECTION_STRING = "mongodb+srv://zackariah:zackariah@cluster0.e2jdy.mongodb.net/";
16
17 //Indicate the name of the database
18 var DATABASENAME = "mydb";
19
20 //Instantiate the mongoclient
21 var database;
22
23 //create a listener
24 app.listen(5038, ()=>{
25   MongoClient.connect(CONNECTION_STRING,(error,client)=>{
26     database=client.db(DATABASENAME);
27     console.log('Yay! Now connected to Cluster');
28   })
29 })
30
31
32 //ROUTES TO ALL ACTIONS
33
34 //get all dbase data
35 app.get('/api/books/GetBooks',(req, res) => {
36   database.collection("books").find().toArray((error,result)=>{
37     res.send(result);
38   })
39 })
40
41
42 app.post('/api/books/AddBook', multer().none(), async (req, res) => {
43   try {
44     const numofDocs = await database.collection("books").countDocuments();
45     await database.collection("books").insertOne({
46       id: (numofDocs + 1).toString(),
47     });
48   }
49 })
50
51
52 app.delete('/api/books/DeleteBook',(req, res)=>{
53   database.collection("books").deleteOne(
54     {id:req.query.id}
55   );
56   res.json("Deleted successfully!");
57 })
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```

I added the middleware `Express.json()` in order for the api to correctly parse the request sent to the backend

POST REQUEST

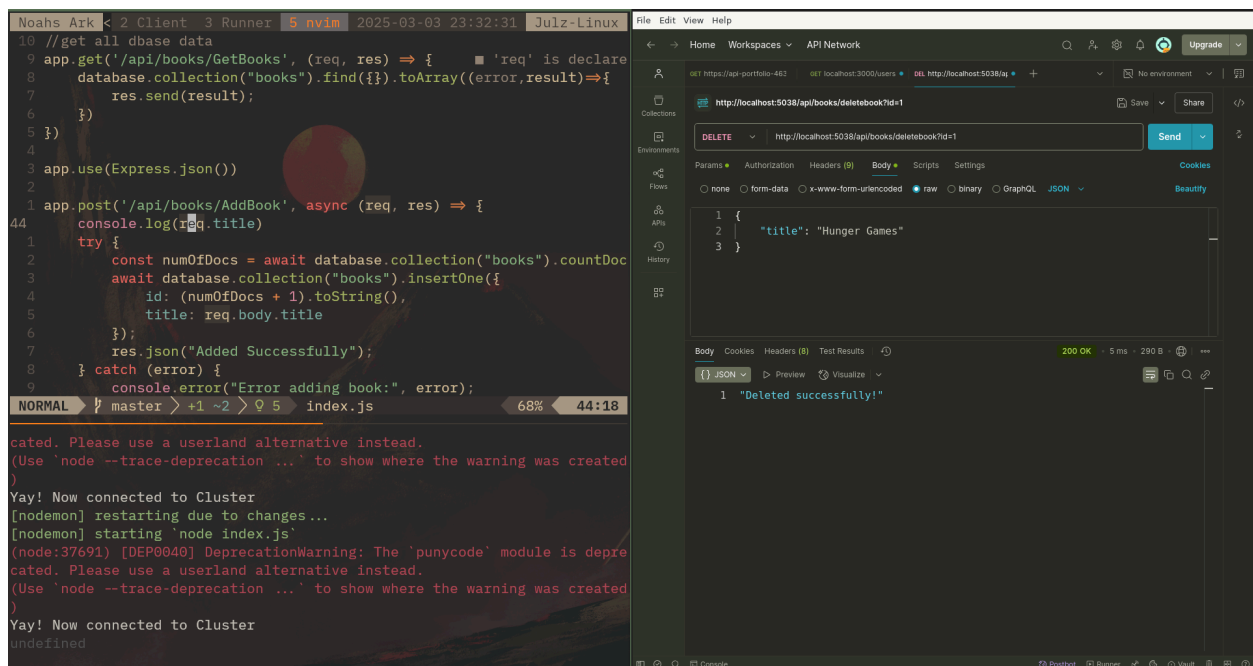


The screenshot shows a code editor on the left and an API client on the right. The code editor displays the following JavaScript code:

```
10 //get all dbase data
9 app.get('/api/books/GetBooks', (req, res) => {    // 'req' is declare
8   database.collection("books").find({}).toArray((error,result)=>{
7     res.send(result);
6   })
5 })
4
3 app.use(Express.json())
2
1 app.post('/api/books/AddBook', async (req, res) => {
44  console.log(req.title)
1    try {
2      const numofDocs = await database.collection("books").countDocs
3      await database.collection("books").insertOne({
4        id: (numofDocs + 1).toString(),
5        title: req.body.title
6      });
7      res.json("Added Successfully");
8    } catch (error) {
9      console.error("Error adding book:", error);
10   }
11 }
12 index.js
```

The API client on the right shows a POST request to `http://localhost:5038/api/books/addbook` with a body of `{ "title": "Hunger Games" }`. The response is `200 OK` with a body of `"Added Successfully"`.

DELETE REQUEST



The screenshot shows a code editor on the left and an API client on the right. The code editor displays the following JavaScript code:

```
10 //get all dbase data
9 app.get('/api/books/GetBooks', (req, res) => {    // 'req' is declare
8   database.collection("books").find({}).toArray((error,result)=>{
7     res.send(result);
6   })
5 })
4
3 app.use(Express.json())
2
1 app.post('/api/books/AddBook', async (req, res) => {
44  console.log(req.title)
1    try {
2      const numofDocs = await database.collection("books").countDocs
3      await database.collection("books").insertOne({
4        id: (numofDocs + 1).toString(),
5        title: req.body.title
6      });
7      res.json("Added Successfully");
8    } catch (error) {
9      console.error("Error adding book:", error);
10   }
11 }
12 index.js
```

The API client on the right shows a DELETE request to `http://localhost:5038/api/books/deletebook?id=1`. The response is `200 OK` with a body of `"Deleted successfully!"`.

GET REQUEST

The image shows a development environment with two main components: a code editor on the left and an API client on the right.

Code Editor (Left): The editor shows a Node.js application using Express.js and MongoDB. The code defines two endpoints: `GET /api/books/GetBooks` and `POST /api/books/AddBook`. The `GET` endpoint retrieves all books from the database. The `POST` endpoint adds a new book to the database. The application is running in a terminal window, showing the command `npm start` and the output `Yay! Now connected to Cluster`.

API Client (Right): The API client is configured to send a `GET` request to `http://localhost:5038/api/books/getbooks`. The request body is empty. The response is a JSON array of two book objects:

```
[{"id": "67c5277bbed482e2e32733c2", "id": "2", "title": "Game of Thrones"}, {"id": "67c5cb2efdd59d7fccf195c9", "id": "3", "title": "Hunger Games"}]
```

The response status is `200 OK` with a response time of `25 ms` and a content size of `406 B`.