

A decorative graphic on the left side of the slide, consisting of a network of white lines and small circles on a dark blue background, resembling a circuit board or a stylized tree structure.

DOCUMENTATION

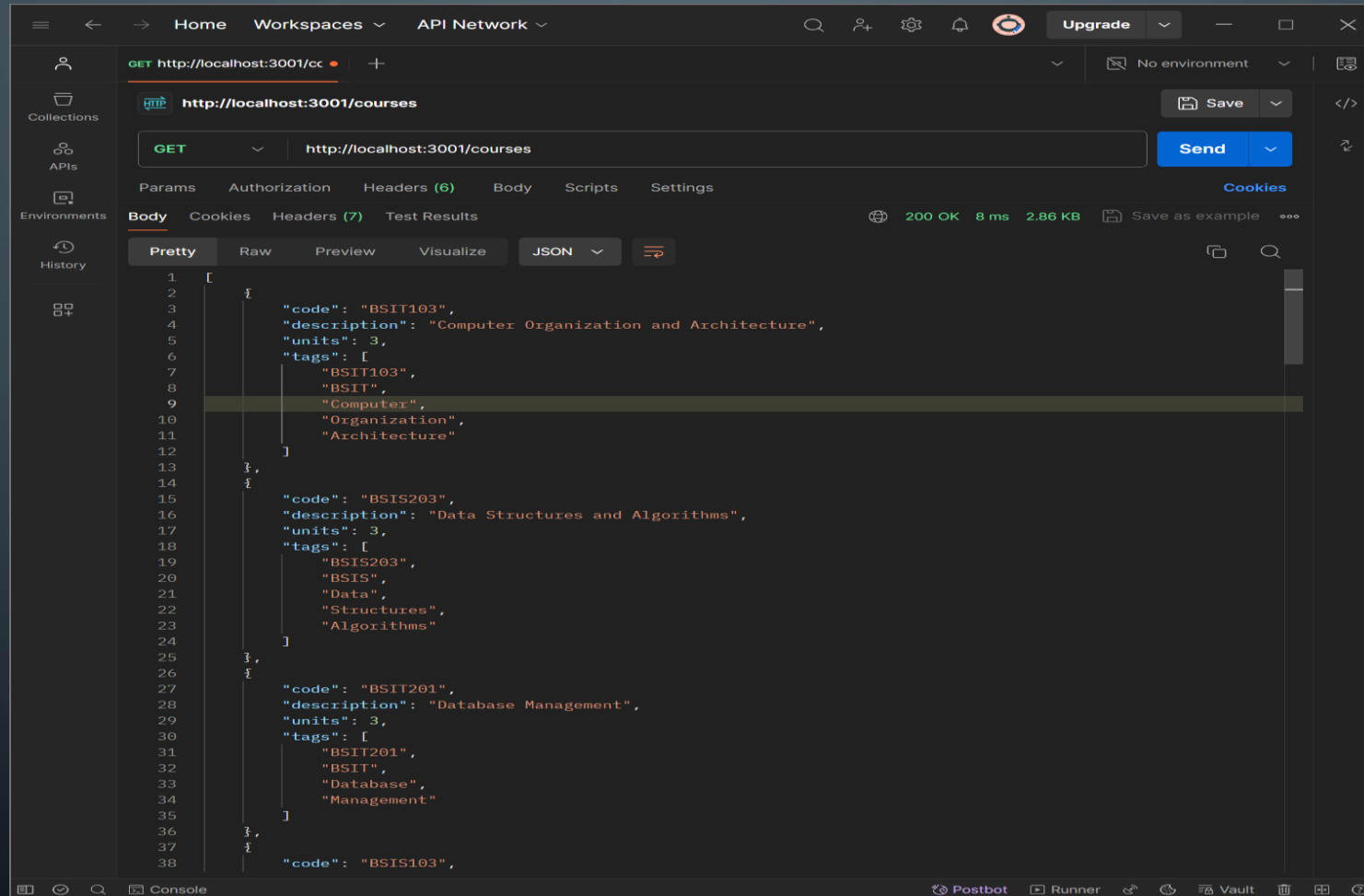
ELIEZER L. MANGUI

BSI/T – 3D

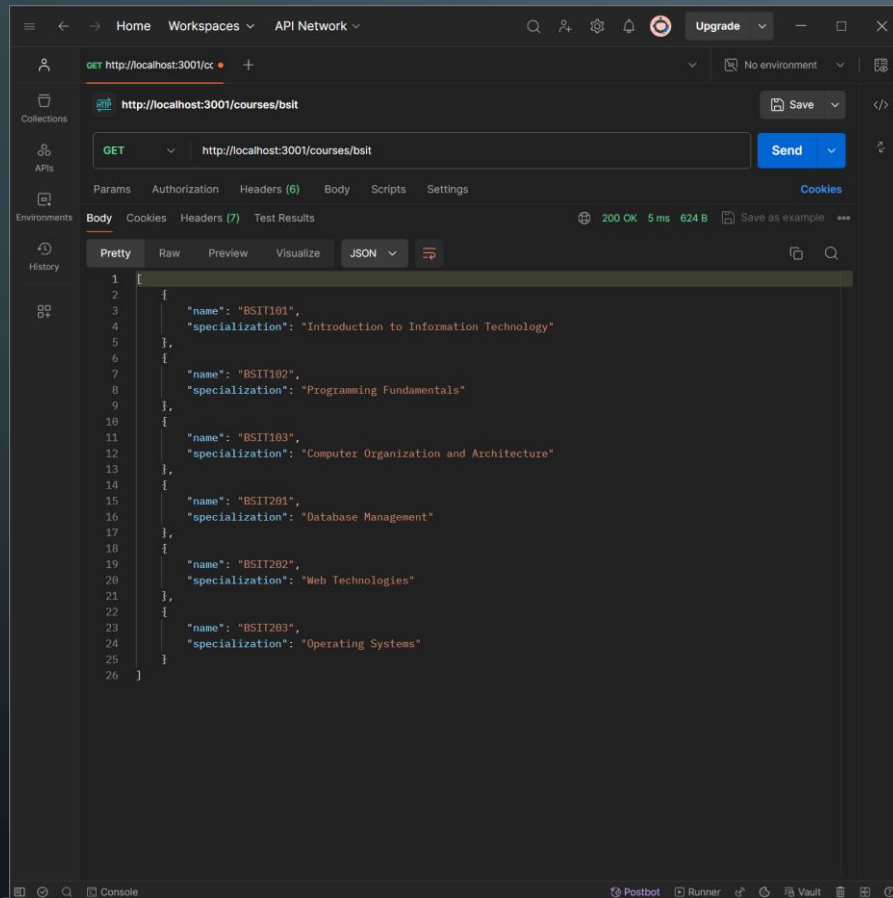
PREREQUISITES

- Make sure that Node.js is installed on your system
- Run the server
- Make sure that the server is running
- Download and Install MongoDB on your computer
- Connect to MongoDB locally
- Import the courses data using the given command: `mongoimport --db mongo-test --collection courses --file courses.json --jsonArray`
- Download and install Postman for API testing

TO RETRIEVE ALL COURSES

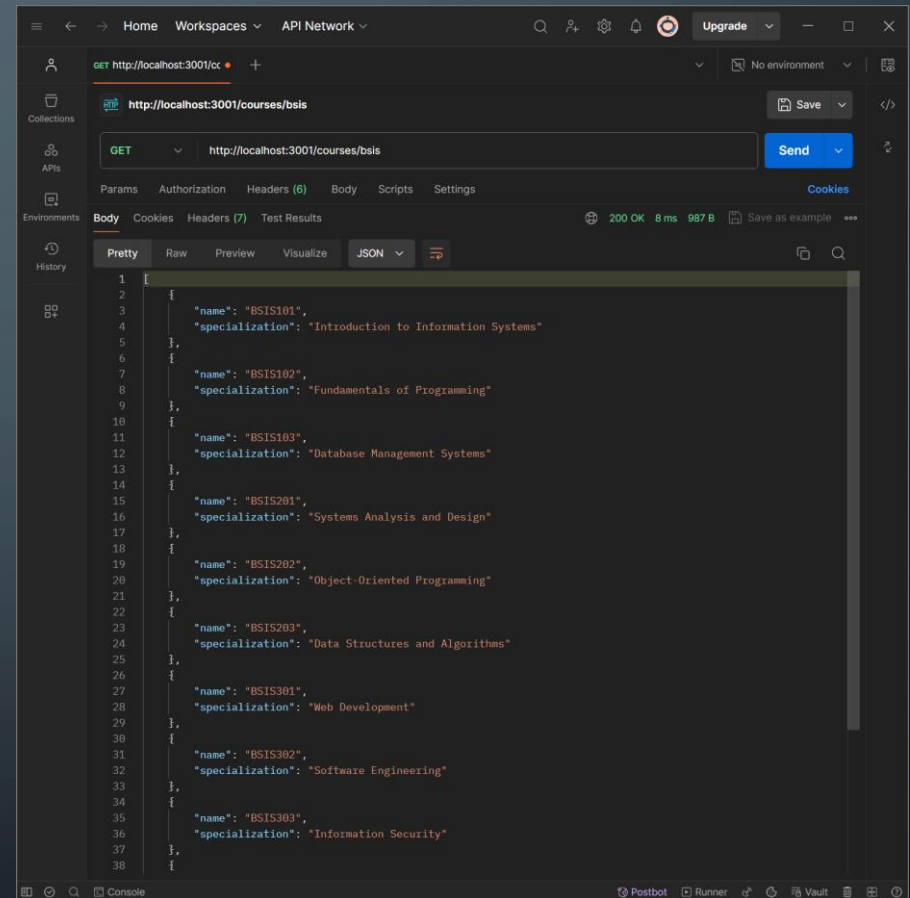


TO RETRIEVE BSIT OR BSIS SORTED ALPHABETICALLY



Postman interface showing a GET request to `http://localhost:3001/courses/bsit`. The response is a 200 OK status with a 5 ms response time and 624 B body. The response body is a JSON array of 6 course objects, sorted alphabetically by name.

```
1 [
2   {
3     "name": "BSIT101",
4     "specialization": "Introduction to Information Technology"
5   },
6   {
7     "name": "BSIT102",
8     "specialization": "Programming Fundamentals"
9   },
10  {
11    "name": "BSIT103",
12    "specialization": "Computer Organization and Architecture"
13  },
14  {
15    "name": "BSIT201",
16    "specialization": "Database Management"
17  },
18  {
19    "name": "BSIT202",
20    "specialization": "Web Technologies"
21  },
22  {
23    "name": "BSIT203",
24    "specialization": "Operating Systems"
25  }
26 ]
```



Postman interface showing a GET request to `http://localhost:3001/courses/bsis`. The response is a 200 OK status with an 8 ms response time and 987 B body. The response body is a JSON array of 9 course objects, sorted alphabetically by name.

```
1 [
2   {
3     "name": "BSIS101",
4     "specialization": "Introduction to Information Systems"
5   },
6   {
7     "name": "BSIS102",
8     "specialization": "Fundamentals of Programming"
9   },
10  {
11    "name": "BSIS103",
12    "specialization": "Database Management Systems"
13  },
14  {
15    "name": "BSIS201",
16    "specialization": "Systems Analysis and Design"
17  },
18  {
19    "name": "BSIS202",
20    "specialization": "Object-Oriented Programming"
21  },
22  {
23    "name": "BSIS203",
24    "specialization": "Data Structures and Algorithms"
25  },
26  {
27    "name": "BSIS301",
28    "specialization": "Web Development"
29  },
30  {
31    "name": "BSIS302",
32    "specialization": "Software Engineering"
33  },
34  {
35    "name": "BSIS303",
36    "specialization": "Information Security"
37  }
38 ]
```

CHALLENGES ENCOUNTERED AND SOLUTIONS

Typographical error/ code error

- Solution: rechecking the codes and using debugger

Node app error or crash

- Solution:
- Restarting the IDE

Port 3000 is already in use

- Solution:
- Adjusted to Port 3001 to work