Performance Test 1

Objective:

The performance test aims to evaluate your ability to retrieve, sort, and select backend courses data according to specified requirements.

Steps:

- Download and install the MongoDB Database tool
- Create a backend API endpoint for the provided course data.

• This is the endpoint I used for retrieving backend courses alphabetically.

This is the output of all the published backend courses sorted alphabetically.

• Here is the endpoint I used to Select and extract the name and specialization of each course.

This is the extracted name and specialization of each course.

• This is the endpoint to retrieve all the published BSIS and BSIT courses.

```
1 * [
2 * {
3     "description": "Introduction to Information Systems",
4     "tags": [
5     "BSIS101",
6     "BSIS",
7     "Information Systems",
8     "Introduction"
9     ]
10     },
11 * {
12     "description": "Fundamentals of Programming",
13     "tags": [
14     "BSIS102",
15     "BSIS",
16     "Programming",
17     "Fundamentals"
18     ]
19     },
20 * {
21     "description": "Database Management Systems",
22 * "tags": [
23     "BSIS103",
24     "BSIS",
25     "Database",
26     "Management",
27     "Systems"
28     ]
39     },
30 * {
31     "description": "Systems Analysis and Design",
32 * "tags": [
33     "BSIS201",
34     "BSIS",
35     "Systems',
36     "Analysis",
37     "Design"
38     "Design"
```

• This is the output of the retrieved BSIS and BSIT courses.

While doing this activity, I encountered difficulties understanding MongoDB concepts and efficiently utilizing the database due to my limited knowledge. To overcome this, I dedicated time to self-learning through online resources. Additionally, comprehending MongoDB's sorting methods and implementing sorting logic in Express.js API endpoints posed challenges in creating functionality for alphabetically sorting data. I must say that I still have a lot of things to learn and improve, overcoming these obstacles not only improved my problem-solving skills but also expanded my knowledge about backend programming.