

TEST PROCEDURE

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RETRIEVAL OF PUBLISHED BACKEND COURSES NAME SORTED ALPHABETICALLY

The image displays two side-by-side screenshots of the Postman API client interface, showing the response of a GET request to the endpoint `http://localhost:3000/program/Classroom`. Both requests resulted in a `200 OK` status with a response time of `223 ms` and a body size of `3.06 KB`.

Left Screenshot: The response is a JSON array containing two course objects. The first object represents a course with code `BSIS101`, description `Introduction to Information Systems`, and 3 units. The second object represents a course with code `BSIS102`, description `Fundamentals of Programming`, and 3 units. The response is formatted in the 'Pretty' view.

```
[
  {
    "_id": "65d9f4922213d23db998085c",
    "1st Year": [
      {
        "code": "BSIS101",
        "description": "Introduction to Information Systems",
        "units": 3,
        "tags": [
          "BSIS101",
          "BSIS",
          "Information Systems",
          "Introduction"
        ]
      }
    ]
  },
  {
    "code": "BSIS102",
    "description": "Fundamentals of Programming",
    "units": 3,
    "tags": [
      "BSIS102",
      "BSIS",
      "Programming",
      "Fundamentals"
    ]
  }
]
```

Right Screenshot: The response is a JSON array containing two course objects. The first object represents a course with code `BSIT401`, description `Project Management`, and 3 units. The second object represents a course with code `BSIT402`, description `Mobile Application Development`, and 3 units. The response is formatted in the 'Pretty' view.

```
[
  {
    "code": "BSIT401",
    "description": "Project Management",
    "units": 3,
    "tags": []
  },
  {
    "code": "BSIT402",
    "description": "Mobile Application Development",
    "units": 3,
    "tags": []
  }
]
```

Selecting and Extracting the Name and Specialization of each Backend Courses

The image displays two side-by-side browser developer tool screenshots, likely from Chrome DevTools, showing the response of a REST client (Postman) to a GET request at the URL `http://localhost:3000/program/Classroom/Extracting`. The status is 200 OK, with a response time of 60 ms and a size of 1.5 KB.

Left Panel (Full Response): The response is a JSON array of 6 objects. Each object contains a `name` and a `specialization` field. The courses listed are:

- Introduction to Information Systems (BSIS)
- Fundamentals of Programming (BSIS)
- Database Management Systems (BSIS)
- Systems Analysis and Design (BSIS)
- Object-Oriented Programming (BSIS)
- Data Structures and Algorithms (BSIS)

Right Panel (Filtered Response): The response is a JSON array of 6 objects, each containing only the `name` and `specialization` fields from the original response. The courses listed are:

- Operating Systems (BSIT)
- Networking
- Software Engineering
- Information Security
- Project Management
- Mobile Application Development
- Internship/Thesis

RETRIEVAL OF BSIS AND BSIT COURSES

The image displays two side-by-side browser developer tool screenshots, both showing an HTTP GET request to `http://localhost:3000/program/Classroom/Retrival`. The status is 200 OK, with a response time of 118 ms and a size of 1.32 KB.

Left Screenshot (BSIT Courses):

The response body is a JSON array of 6 course objects, all with a specialization of "BSIT". The courses are:

- "Introduction to Information Technology"
- "Programming Fundamentals"
- "Computer Organization and Architecture"
- "Database Management"
- "Web Technologies"
- "Operating Systems"

Right Screenshot (BSIS Courses):

The response body is a JSON array of 6 course objects, all with a specialization of "BSIS". The courses are:

- "Introduction to Information Systems"
- "Fundamentals of Programming"
- "Database Management Systems"
- "Systems Analysis and Design"
- "Object-Oriented Programming"
- "Data Structures and Algorithms"

Challenges

I encountered problems with my code right from the start. Initially, an error in my JavaScript file persisted despite my attempts to debug it. Testing with Postman didn't yield the expected results, and subsequent debugging efforts couldn't resolve the issue, leading to multiple errors. Connecting the code to the database and importing the JSON file posed further challenges. Additionally, ensuring data validation at every step to maintain accuracy and integrity proved difficult.



Solutions

I sought assistance from a classmate to troubleshoot an error in my JavaScript code and also looked up potential solutions online. Luckily, I managed to identify and resolve the issue. It turned out that the problem stemmed from incorrect terminal commands, preventing me from connecting to the database and importing the JSON file. Once I corrected the commands, the database connection was established, and the JSON file was successfully imported. Afterward, I tested the functionality using Postman, and it yielded the expected outcomes.



**THANK
YOU**