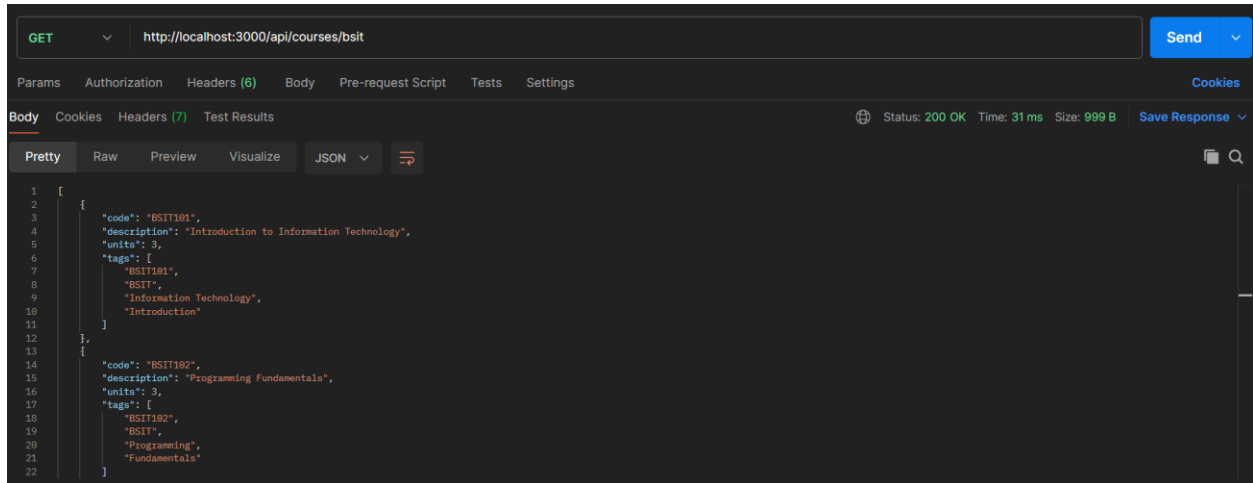


Documentation of Test Procedure

Retrieving all BSIT course

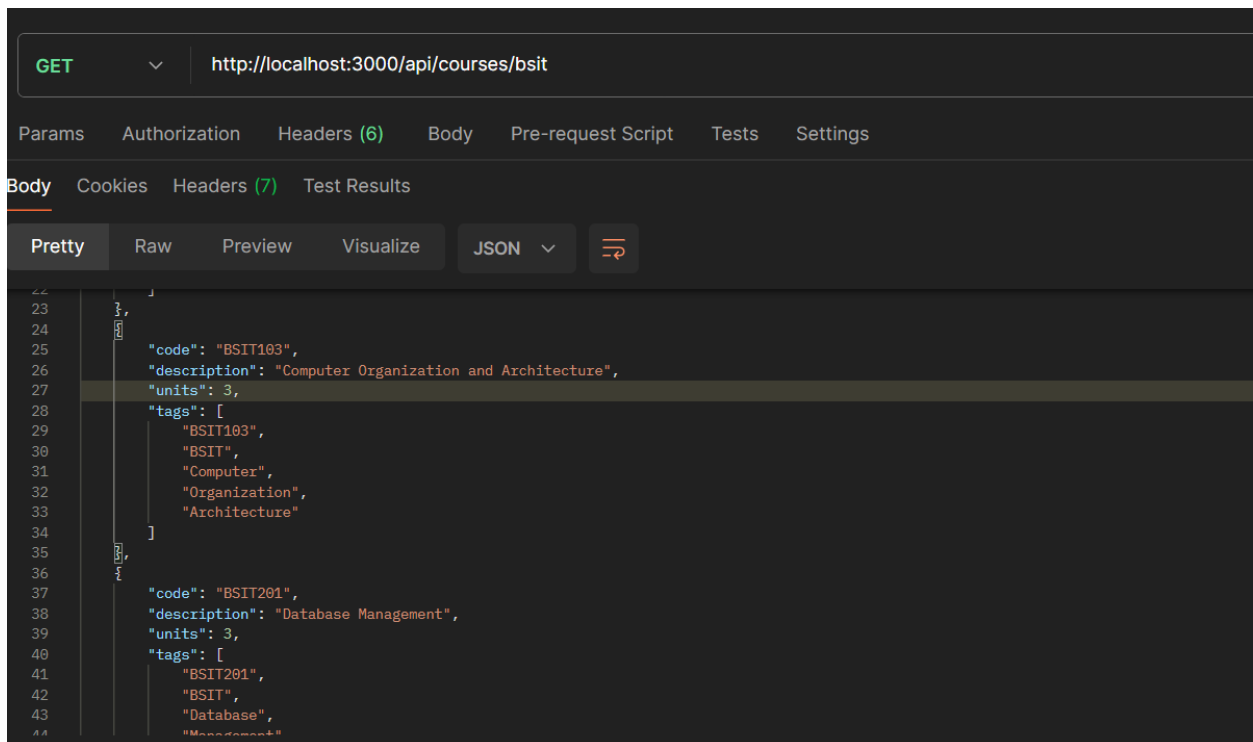


```
GET http://localhost:3000/api/courses/bsit

Status: 200 OK Time: 31 ms Size: 999 B Save Response

Pretty Raw Preview Visualize JSON

1  [
2    {
3      "code": "BSIT101",
4      "description": "Introduction to Information Technology",
5      "units": 3,
6      "tags": [
7        "BSIT101",
8        "BSIT",
9        "Information Technology",
10       "Introduction"
11     ]
12   },
13   {
14     "code": "BSIT102",
15     "description": "Programming Fundamentals",
16     "units": 3,
17     "tags": [
18       "BSIT102",
19       "BSIT",
20       "Programming",
21       "Fundamentals"
22     ]
23   }
24 ]
```



```
25   {
26     "code": "BSIT103",
27     "description": "Computer Organization and Architecture",
28     "units": 3,
29     "tags": [
30       "BSIT103",
31       "BSIT",
32       "Computer",
33       "Organization",
34       "Architecture"
35     ]
36   },
37   {
38     "code": "BSIT201",
39     "description": "Database Management",
40     "units": 3,
41     "tags": [
42       "BSIT201",
43       "BSIT",
44       "Database",
45       "Management"
46     ]
47   }
48 ]
```

```
GET http://localhost:3000/api/courses/bsit

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

{
  "code": "BSIT202",
  "description": "Web Technologies",
  "units": 3,
  "tags": [
    "BSIT202",
    "BSIT",
    "Web",
    "Technologies"
  ]
},
{
  "code": "BSIT203",
  "description": "Operating Systems",
  "units": 3,
  "tags": [
    "BSIT203",
    "BSIT",
    "Operating",
    "Systems"
  ]
}
```

Retrieving all BSIS course

```
GET http://localhost:3000/api/courses/bsis

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

[
  {
    "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"
    ]
  }
]
```

```
GET http://localhost:3000/api/courses/bsis

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

24 {
25   "code": "BSIS103",
26   "description": "Database Management Systems",
27   "units": 3,
28   "tags": [
29     "BSIS103",
30     "BSIS",
31     "Database",
32     "Management",
33     "Systems"
34   ]
35 },
36 {
37   "code": "BSIS201",
38   "description": "Systems Analysis and Design",
39   "units": 3,
40   "tags": [
41     "BSIS201",
42     "BSIS",
43     "Systems",
44     "Analysis",
45     "Design"
```

```
GET http://localhost:3000/api/courses/bsis

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

47 },
48 {
49   "code": "BSIS202",
50   "description": "Object-Oriented Programming",
51   "units": 3,
52   "tags": [
53     "BSIS202",
54     "BSIS",
55     "Object-Oriented",
56     "Programming"
57   ]
58 },
59 {
60   "code": "BSIS203",
61   "description": "Data Structures and Algorithms",
62   "units": 3,
63   "tags": [
64     "BSIS203",
65     "BSIS",
66     "Data",
67     "Structures",
68     "Algorithms"
```

```
GET http://localhost:3000/api/courses/bsis

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

70   },
71   {
72     "code": "BSIS301",
73     "description": "Web Development",
74     "units": 3,
75     "tags": [
76       "BSIS301",
77       "BSIS",
78       "Web",
79       "Development"
80     ]
81   },
82   {
83     "code": "BSIS302",
84     "description": "Software Engineering",
85     "units": 3,
86     "tags": [
87       "BSIS302",
88       "BSIS",
89       "Software",
90       "Engineering"
91     ]
92   }
93 ]
```

```
GET http://localhost:3000/api/courses/bsis

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

92   },
93   {
94     "code": "BSIS303",
95     "description": "Information Security",
96     "units": 3,
97     "tags": [
98       "BSIS303",
99       "BSIS",
100      "Information",
101      "Security"
102    ]
103  },
104  {
105    "code": "BSIS401",
106    "description": "Enterprise Systems",
107    "units": 3,
108    "tags": [
109      "BSIS401",
110      "BSIS",
111      "Enterprise",
112      "Systems"
113    ]
114  }
115 ]
```

Retrieving backend courses and sorted them alphabetically

```
GET http://localhost:3000/api/backend-courses

Body
Pretty Raw Preview Visualize JSON ↕

1  {
2    "code": "BSIT201",
3    "description": "Database Management",
4    "units": 3,
5    "tags": [
6      "BSIT201",
7      "BSIT",
8      "Database",
9      "Management"
10   ]
11 },
12 {
13   "code": "BSIS103",
14   "description": "Database Management Systems",
15   "units": 3,
16   "tags": [
17     "BSIS103",
18     "BSIS",
19     "Database",
20     "Management",
21     "Systems"
22   ]
23 }
```

```
24 },
25 {
26   "code": "BSIS401",
27   "description": "Enterprise Systems",
28   "units": 3,
29   "tags": [
30     "BSIS401",
31     "BSIS",
32     "Enterprise",
33     "Systems"
34   ]
35 },
36 {
37   "code": "BSIS303",
38   "description": "Information Security",
39   "units": 3,
40   "tags": [
41     "BSIS303",
42     "BSIS",
43     "Information",
44     "Security"
45   ]
46 }
```

GET http://localhost:3000/api/backend-courses

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON

```
46  },
47  {
48    "code": "BSIS302",
49    "description": "Software Engineering",
50    "units": 3,
51    "tags": [
52      "BSIS302",
53      "BSIS",
54      "Software",
55      "Engineering"
56    ]
57  },
58  {
59    "code": "BSIS301",
60    "description": "Web Development",
61    "units": 3,
62    "tags": [
63      "BSIS301",
64      "BSIS",
65      "Web",
66      "Development"
67    ]
68  }
69 ]
```

GET http://localhost:3000/api/backend-courses

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON


```
59  "code": "BSIS301",
60  "description": "Web Development",
61  "units": 3,
62  "tags": [
63    "BSIS301",
64    "BSIS",
65    "Web",
66    "Development"
67  ]
68 },
69 {
70  "code": "BSIT202",
71  "description": "Web Technologies",
72  "units": 3,
73  "tags": [
74    "BSIT202",
75    "BSIT",
76    "Web",
77    "Technologies"
78  ]
79 }
80 ]
```

Retrieving Course Detail and Specialization

GET ⌵ http://localhost:3000/api/course-details

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results


Pretty Raw Preview Visualize JSON ⌵ 

```
1  [  
2    {  
3      "name": "BSIS101",  
4      "specialization": "BSIS"  
5    },  
6    {  
7      "name": "BSIS102",  
8      "specialization": "BSIS"  
9    },  
10   {  
11     "name": "BSIS103",  
12     "specialization": "BSIS"  
13   },  
14   {  
15     "name": "BSIS201",  
16     "specialization": "BSIS"  
17   },  
18   {  
19     "name": "BSIS202",  
20     "specialization": "BSIS"  
21   },  
22   {
```

GET ⌵ http://localhost:3000/api/course-details

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON ⌵ 

```
22   {  
23     "name": "BSIS203",  
24     "specialization": "BSIS"  
25   },  
26   {  
27     "name": "BSIS301",  
28     "specialization": "BSIS"  
29   },  
30   {  
31     "name": "BSIS302",  
32     "specialization": "BSIS"  
33   },  
34   {  
35     "name": "BSIS303",  
36     "specialization": "BSIS"  
37   },  
38   {  
39     "name": "BSIS401",  
40     "specialization": "BSIS"  
41   },  
42   {  
43     "name": "BSIS402",
```

GET http://localhost:3000/api/course-details

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON ↕

```
42 {
43   "name": "BSIS402",
44   "specialization": "BSIS"
45 },
46 {
47   "name": "BSIS403",
48   "specialization": "BSIS"
49 },
50 {
51   "name": "BSIT101",
52   "specialization": "BSIT"
53 },
54 {
55   "name": "BSIT102",
56   "specialization": "BSIT"
57 },
58 {
59   "name": "BSIT103",
60   "specialization": "BSIT"
61 },
62 {
63   "name": "BSIT201",
```

GET http://localhost:3000/api/course-details

Params Authorization Headers (6) Body Pre-request Script Tests Settings

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON ↕

```
59   "name": "BSIT103",
60   "specialization": "BSIT"
61 },
62 {
63   "name": "BSIT201",
64   "specialization": "BSIT"
65 },
66 {
67   "name": "BSIT202",
68   "specialization": "BSIT"
69 },
70 {
71   "name": "BSIT203",
72   "specialization": "BSIT"
73 },
```


How this activity challenged me?

Upon starting this activity, I anticipated it would require considerable time for me to comprehend and complete. Utilizing tools and resources unfamiliar to me for this task, such as NodeJS, MongoDB, MongoCompass, and POSTMAN, alongside the necessary command line operations, presented a steep learning curve. To overcome this, I look on other external resources and documentation to grasp their functionalities and characteristics.

Several challenges arose during the process. For instance, in POSTMAN, I encountered difficulties accessing the courses.json file smoothly, leading to frustration as no output was displayed. Upon investigation, I realized it was due to errors in the endpoint and URL I had used. Similarly, I faced issues with Mongoose due to oversight in installation, and Nodemon struggled to establish compatibility with my computer system. Resolving these issues required thorough research and troubleshooting.

Despite the challenges, I successfully completed the activity. Moving forward, I aim to delve deeper into the context, particularly concerning MongoDB. Despite its complexity, engaging with these tools proved both challenging and enjoyable as I gradually comprehended their interplay.