



TEST PROCEDURE

PERFORMANCE TEST

RETRIEVAL OF PUBLISHED BACKEND COURSES NAME SORTED ALPHABETICALLY

GET

▼

http://localhost:3010/courses/sortedByName

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

≡

```
1 []
2   {
3     "_id": "65d87b80d04b27047921d8b9",
4     "code": "BSIT103",
5     "description": "Computer Organization and Architecture",
6     "units": 3,
7     "tags": [
8       "BSIT103",
9       "BSIT",
10      "Computer",
11      "Organization",
12      "Architecture"
13    ]
14  },
15  {
16    "_id": "65d87b80d04b27047921d8c8",
17    "code": "BSIS203",
18    "description": "Data Structures and Algorithms",
19    "units": 3,
20    "tags": [
21      "BSIS203",
22      "BSIS",
23      "Data",
24      "Structures",
```

GET

▼

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ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

≡

```
28  {
29    "_id": "65d87b80d04b27047921d8ba",
30    "code": "BSIT201",
31    "description": "Database Management",
32    "units": 3,
33    "tags": [
34      "BSIT201",
35      "BSIT",
36      "Database",
37      "Management"
38    ]
39  },
40  {
41    "_id": "65d87b80d04b27047921d8c5",
42    "code": "BSIS103",
43    "description": "Database Management Systems",
44    "units": 3,
45    "tags": [
46      "BSIS103",
47      "BSIS",
48      "Database",
49      "Management",
50      "Systems"
51    ]
52  },
```

RETRIEVAL OF PUBLISHED BACKEND COURSES NAME SORTED ALPHABETICALLY

GET

▼

http://localhost:3010/courses/sortedByName

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON▼

```
52  },
53  {
54      "_id": "65d87b80d04b27047921d8cc",
55      "code": "BSIS401",
56      "description": "Enterprise Systems",
57      "units": 3,
58      "tags": [
59          "BSIS401",
60          "BSIS",
61          "Enterprise",
62          "Systems"
63      ]
64  },
65  {
66      "_id": "65d87b80d04b27047921d8c4",
67      "code": "BSIS102",
68      "description": "Fundamentals of Programming",
69      "units": 3,
70      "tags": [
71          "BSIS102",
72          "BSIS",
73          "Programming",
74          "Fundamentals"
75      ]
76  },
77  {
78      "_id": "65d87b80d04b27047921d8bf",
79      "code": "BSIT303",
80      "description": "Information Security",
81      "units": 3,
82      "tags": []
83  },
84  {
85      "_id": "65d87b80d04b27047921d8cb",
86      "code": "BSIS303",
87      "description": "Information Security",
88      "units": 3,
89      "tags": [
90          "BSIS303",
91          "BSIS",
92          "Information",
93          "Security"
94      ]
95  },
96  {
97      "_id": "65d87b80d04b27047921d8c2",
98      "code": "BSIT403",
99      "description": "Internship/Thesis",
100     "units": 6
101  },
102  ]
103 }
```

GET

▼

http://localhost:3010/courses/sortedByName

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON▼

```
77  {
78      "_id": "65d87b80d04b27047921d8bf",
79      "code": "BSIT303",
80      "description": "Information Security",
81      "units": 3,
82      "tags": []
83  },
84  {
85      "_id": "65d87b80d04b27047921d8cb",
86      "code": "BSIS303",
87      "description": "Information Security",
88      "units": 3,
89      "tags": [
90          "BSIS303",
91          "BSIS",
92          "Information",
93          "Security"
94      ]
95  },
96  {
97      "_id": "65d87b80d04b27047921d8c2",
98      "code": "BSIT403",
99      "description": "Internship/Thesis",
100     "units": 6
101  },
102  ]
103 }
```

SELECTION OF NAME AND SPECIALIZATION OF EACH COURSE

GET

http://localhost:3010/courses/nameAndSpecialization

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON

```
1  []
2  {
3    "description": "Introduction to Information Technology",
4    "tags": [
5      "BSIT101",
6      "BSIT",
7      "Information Technology",
8      "Introduction"
9    ]
10  },
11  {
12    "description": "Programming Fundamentals",
13    "tags": [
14      "BSIT102",
15      "BSIT",
16      "Programming",
17      "Fundamentals"
18    ]
19  },
20  {
21    "description": "Computer Organization and Architecture",
22    "tags": [
23      "BSIT103",
24      "BSIT",
```

GET

http://localhost:3010/courses/nameAndSpecialization

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON

```
28  }
29  },
30  {
31    "description": "Database Management",
32    "tags": [
33      "BSIT201",
34      "BSIT",
35      "Database",
36      "Management"
37    ]
38  },
39  {
40    "description": "Web Technologies",
41    "tags": [
42      "BSIT202",
43      "BSIT",
44      "Web",
45      "Technologies"
46    ]
47  },
48  {
49    "description": "Operating Systems",
50    "tags": [
51      "BSIT203",
52      "-----"
```

SELECTION OF NAME AND SPECIALIZATION OF EACH COURSE

GET

http://localhost:3010/courses/nameAndSpecialization

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON

```
118  },
119  {
120    "description": "Object-Oriented Programming",
121    "tags": [
122      "BSIS202",
123      "BSIS",
124      "Object-Oriented",
125      "Programming"
126    ]
127  },
128  {
129    "description": "Data Structures and Algorithms",
130    "tags": [
131      "BSIS203",
132      "BSIS",
133      "Data",
134      "Structures",
135      "Algorithms"
136    ]
137  },
138  {
139    "description": "Web Development",
140    "tags": [
141      "BSIS201"
```

GET

http://localhost:3010/courses/nameAndSpecialization

ParamsAuthorizationHeaders (6)BodyPre-request ScriptTestsSettings

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON

```
90  {
91    "description": "Fundamentals of Programming",
92    "tags": [
93      "BSIS102",
94      "BSIS",
95      "Programming",
96      "Fundamentals"
97    ]
98  },
99  {
100    "description": "Database Management Systems",
101    "tags": [
102      "BSIS103",
103      "BSIS",
104      "Database",
105      "Management",
106      "Systems"
107    ]
108  },
109  {
110    "description": "Systems Analysis and Design",
111    "tags": [
112      "BSIS201",
113      "BSIS",
```

RETRIEVAL OF BSIS AND BSIT COURSES

GETGET

http://localhost:3010/courses/publishedCourseshttp://localhost:3010/courses/publishedCourses

ParamsParamsAuthorizationAuthorizationHeaders (6)Headers (6)BodyBodyPre-request ScriptPre-request ScriptTestsTestsSettingsSettings

BodyBodyCookiesCookiesHeaders (7)Headers (7)Test ResultsTest Results

PrettyPrettyRawRawPreviewPreviewVisualizeVisualizeJSONJSON

```
1  []
2  {
3    "description": "Introduction to Information Technology",
4    "tags": [
5      "BSIT101",
6      "BSIT",
7      "Information Technology",
8      "Introduction"
9    ]
10  },
11  {
12    "description": "Programming Fundamentals",
13    "tags": [
14      "BSIT102",
15      "BSIT",
16      "Programming",
17      "Fundamentals"
18    ]
19  },
20  {
21    "description": "Computer Organization and Architecture",
22    "tags": [
23      "BSIT103",
24      "BSIT",
```

GETGET

http://localhost:3010/courses/publishedCourseshttp://localhost:3010/courses/publishedCourses

ParamsParamsAuthorizationAuthorizationHeaders (6)Headers (6)BodyBodyPre-request ScriptPre-request ScriptTestsTestsSettingsSettings

bodybodyCookiesCookiesHeaders (7)Headers (7)Test ResultsTest Results

PrettyPrettyRawRawPreviewPreviewVisualizeVisualizeJSONJSON

```
25    "Computer",
26    "Organization",
27    "Architecture"
28  ]
29  },
30  {
31    "description": "Database Management",
32    "tags": [
33      "BSIT201",
34      "BSIT",
35      "Database",
36      "Management"
37    ]
38  },
39  {
40    "description": "Web Technologies",
41    "tags": [
42      "BSIT202",
43      "BSIT",
44      "Web",
45      "Technologies"
46    ]
47  },
48  }
```

RETRIEVAL OF BSIS AND BSIT COURSES

GETGET

http://localhost:3010/courses/publishedCourseshttp://localhost:3010/courses/publishedCourses

ParamsParamsAuthorizationAuthorizationHeaders (6)Headers (6)BodyBodyPre-request ScriptPre-request ScriptTestsTestsSettingsSettings

BodyBodyCookiesCookiesHeaders (7)Headers (7)Test ResultsTest Results

PrettyPrettyRawRawPreviewPreviewVisualizeVisualizeJSONJSON

```
73      ]
74    },
75    {
76      "description": "Database Management Systems",
77      "tags": [
78        "BSIS103",
79        "BSIS",
80        "Database",
81        "Management",
82        "Systems"
83      ]
84    },
85    {
86      "description": "Systems Analysis and Design",
87      "tags": [
88        "BSIS201",
89        "BSIS",
90        "Systems",
91        "Analysis",
92        "Design"
93      ]
94    },
95    {
96      "description": "Object-Oriented Programming",
```

GETGET

http://localhost:3010/courses/publishedCourseshttp://localhost:3010/courses/publishedCourses

ParamsParamsAuthorizationAuthorizationHeaders (6)Headers (6)BodyBodyPre-request ScriptPre-request ScriptTestsTestsSettingsSettings

BodyBodyCookiesCookiesHeaders (7)Headers (7)Test ResultsTest Results

PrettyPrettyRawRawPreviewPreviewVisualizeVisualizeJSONJSON

```
46      ]
47    },
48    {
49      "description": "Operating Systems",
50      "tags": [
51        "BSIT203",
52        "BSIT",
53        "Operating",
54        "Systems"
55      ]
56    },
57    {
58      "description": "Introduction to Information Systems",
59      "tags": [
60        "BSIS101",
61        "BSIS",
62        "Information Systems",
63        "Introduction"
64      ]
65    },
66    {
67      "description": "Fundamentals of Programming",
68      "tags": [
69        "BSIS102"
```


CHALLENGES

I had some issues with my code from the beginning. Firstly, I made a mistake with my JavaScript file, and despite trying to debug it, the error persisted. I encountered difficulties while testing with Postman, as it did not display the expected results. I attempted to debug my code again, but I still couldn't resolve the issue, and it generated many errors. Additionally, I struggled with connecting the code with the database and importing the JSON file. Furthermore, I faced challenges in performing data validation at each step to ensure the accuracy and integrity of the retrieved information.



SOLUTIONS

I asked my classmate to help me debug an error in my JavaScript file. I also searched the internet for possible solutions to fix the error in my code. Fortunately, I was able to fix the error. By discovering that the issue was with the commands I was using in the terminal that's why I was unable to connect with the database and import the JSON file, I tried to ran the correct command, and the database was successfully connected, and the JSON file was imported. After this, I tested it with Postman, and it displayed the desired results. However, I still faced the challenge of being unable to perform data validation since something was missing in my code.



THANKYOU
THE END

