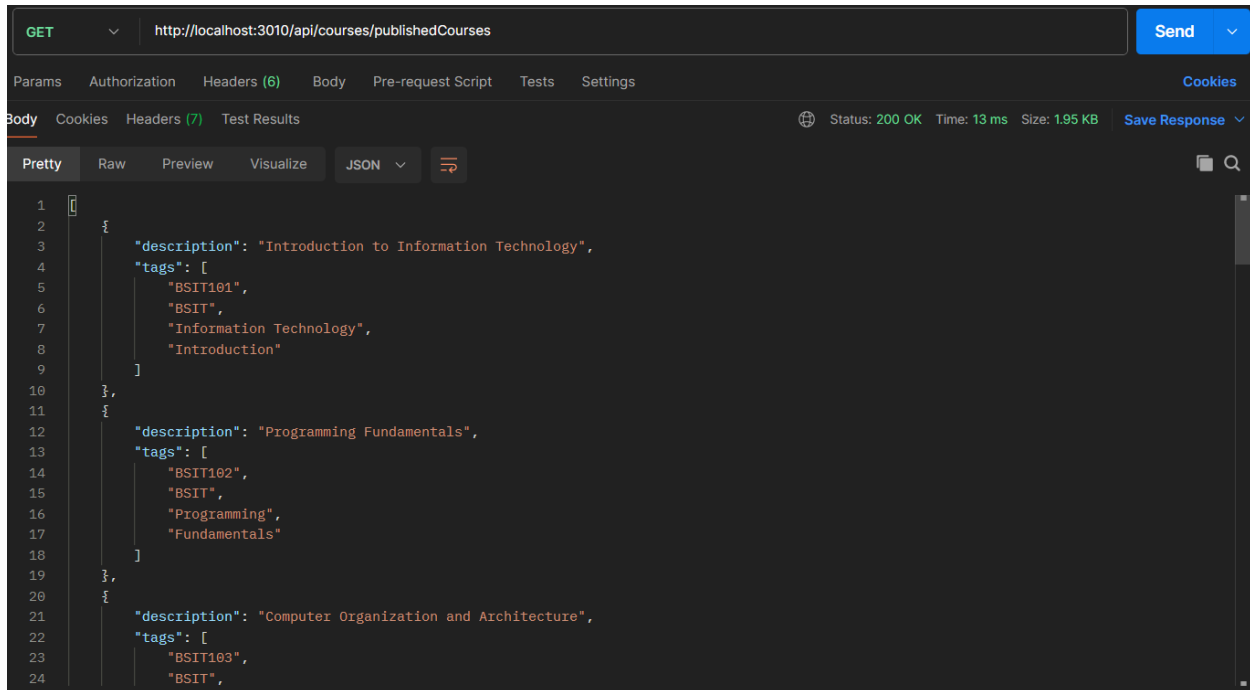


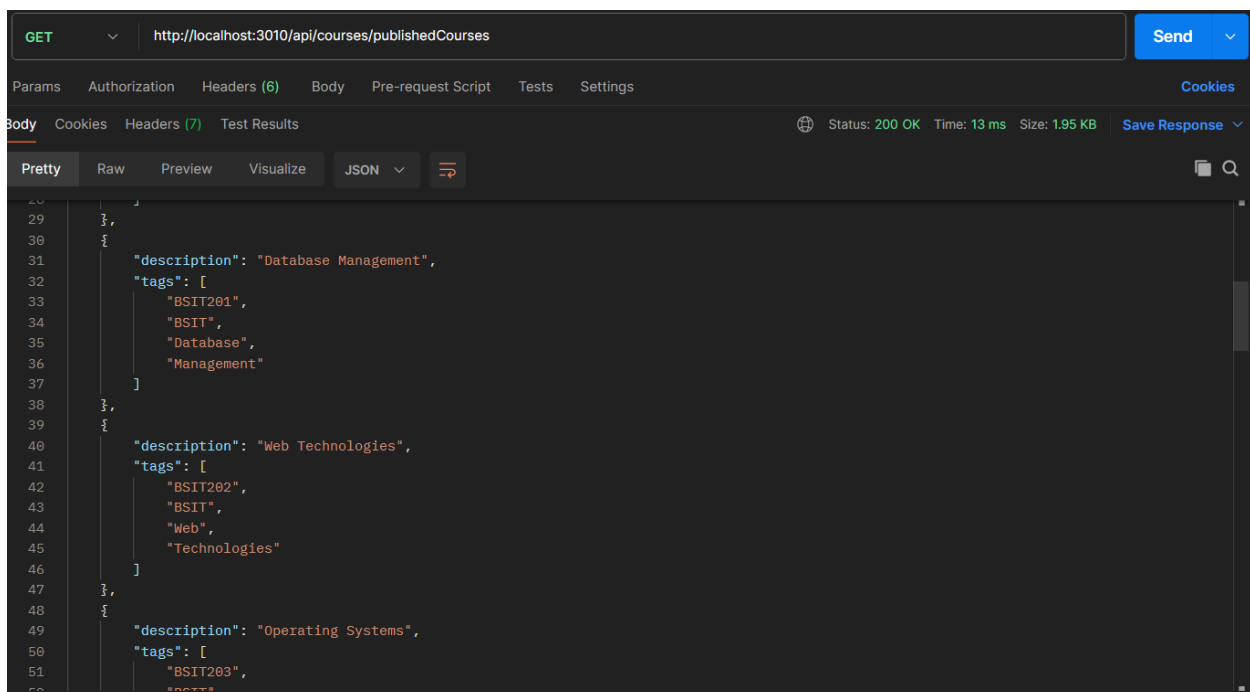
DOCUMENTATION

TEST PROCEDURES

RETRIEVAL OF PUBLISHED COURSES



```
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",
```



```
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       "BSIT"
```

GET http://localhost:3010/api/courses/publishedCourses Send

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

Body Cookies Headers (7) Test Results Status: 200 OK Time: 13 ms Size: 1.95 KB Save Response

Pretty Raw Preview Visualize JSON

```
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",
70       "BSIS",
71       "Programming",
72       "Fundamentals"
73     ]
74   },
75   {
76     "description": "Database Management Systems",
77     "tags": [
78       "BSIS103",
79       "BSIS",
```

GET http://localhost:3010/api/courses/publishedCourses Send

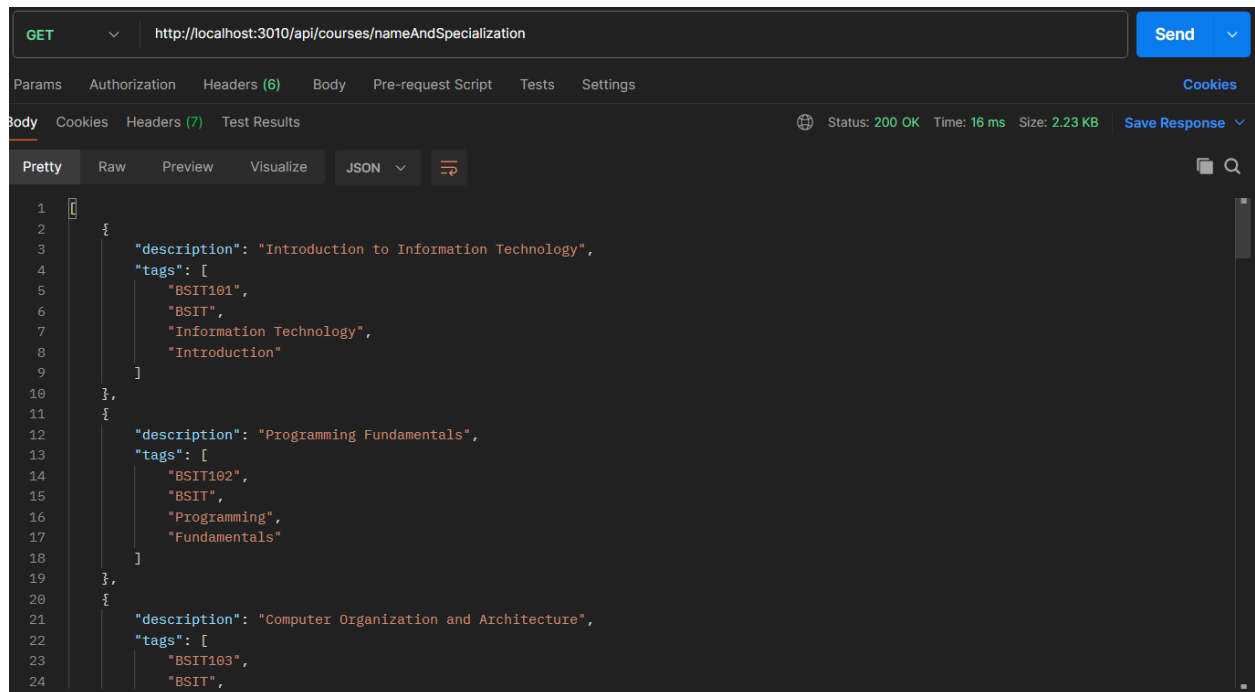
Params Authorization Headers (6) Body Pre-request Script Tests Settings Cookies

Body Cookies Headers (7) Test Results Status: 200 OK Time: 13 ms Size: 1.95 KB Save Response

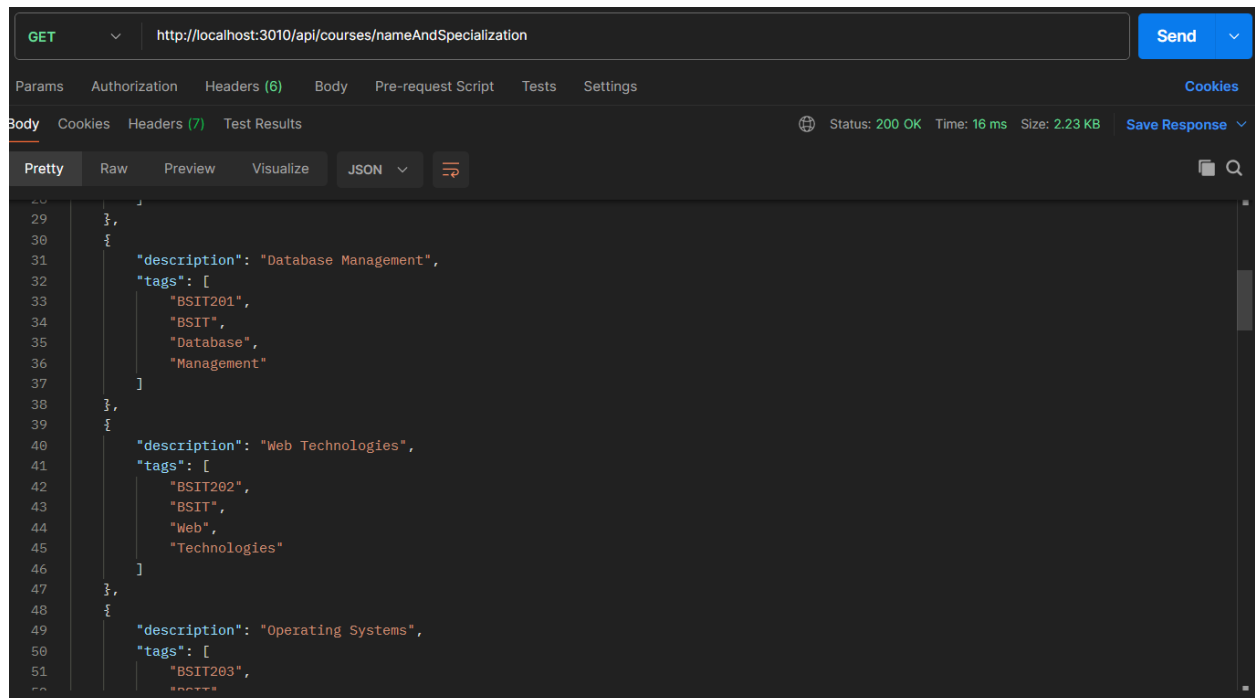
Pretty Raw Preview Visualize JSON

```
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",
97     "tags": [
98       "BSIS202",
99       "BSIS",
100      "Object-Oriented",
101      "Programming"
102    ]
103  },
104  {
105    "description": "Data Structures and Algorithms",
106    "tags": [
107      "BSIS203"
```

RETRIEVAL OF COURSE SPECIALIZATION



```
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",
```



```
25     "description": "Database Management",
26     "tags": [
27       "BSIT201",
28       "BSIT",
29       "Database",
30       "Management"
31     ]
32   },
33   {
34     "description": "Web Technologies",
35     "tags": [
36       "BSIT202",
37       "BSIT",
38       "Web",
39       "Technologies"
40     ]
41   },
42   {
43     "description": "Operating Systems",
44     "tags": [
45       "BSIT203",
46       "BSIT",
```

GET http://localhost:3010/api/courses/nameAndSpecialization Send

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

Body Cookies Headers (7) Test Results Status: 200 OK Time: 16 ms Size: 2.23 KB Save Response

Pretty Raw Preview Visualize JSON

```
56   },
57   {
58     "description": "Networking",
59     "tags": []
60   },
61   {
62     "description": "Software Engineering",
63     "tags": []
64   },
65   {
66     "description": "Information Security",
67     "tags": []
68   },
69   {
70     "description": "Project Management",
71     "tags": []
72   },
73   {
74     "description": "Mobile Application Development",
75     "tags": []
76   },
77   {
78     "description": "Internship/Thesis",
79     "tags": []
```

GET http://localhost:3010/api/courses/nameAndSpecialization Send

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

Body Cookies Headers (7) Test Results Status: 200 OK Time: 16 ms Size: 2.23 KB Save Response

Pretty Raw Preview Visualize JSON

```
77   {
78     "description": "Internship/Thesis",
79     "tags": []
80   },
81   {
82     "description": "Introduction to Information Systems",
83     "tags": [
84       "BSIS101",
85       "BSIS",
86       "Information Systems",
87       "Introduction"
88     ]
89   },
90   {
91     "description": "Fundamentals of Programming",
92     "tags": [
93       "BSIS102",
94       "BSIS",
95       "Programming",
96       "Fundamentals"
97     ]
98   },
99   {
100    "description": "Database Management Systems"
```

RETRIEVAL OF COURSE BY NAME

```
GET http://localhost:3010/api/courses/sortedByName

Status: 200 OK Time: 103 ms Size: 3.63 KB

{
  "_id": "65d8a006188eacfd2a2e0198",
  "code": "BSIT103",
  "description": "Computer Organization and Architecture",
  "units": 3,
  "tags": [
    "BSIT103",
    "BSIT",
    "Computer",
    "Organization",
    "Architecture"
  ]
},
{
  "_id": "65d8a006188eacfd2a2e01a7",
  "code": "BSIS203",
  "description": "Data Structures and Algorithms",
  "units": 3,
  "tags": [
    "BSIS203",
    "BSIS",
    "Data",
    "Structures",
  ]
}
```

```
GET http://localhost:3010/api/courses/sortedByName

Status: 200 OK Time: 103 ms Size: 3.63 KB

{
  "_id": "65d8a006188eacfd2a2e0199",
  "code": "BSIT201",
  "description": "Database Management",
  "units": 3,
  "tags": [
    "BSIT201",
    "BSIT",
    "Database",
    "Management"
  ]
},
{
  "_id": "65d8a006188eacfd2a2e01a4",
  "code": "BSIS103",
  "description": "Database Management Systems",
  "units": 3,
  "tags": [
    "BSIS103",
    "BSIS",
    "Database",
    "Management",
    "Systems"
  ]
}
```

GET http://localhost:3010/api/courses/sortedByName Send

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

Body Cookies Headers (7) Test Results Status: 200 OK Time: 103 ms Size: 3.63 KB Save Response

Pretty Raw Preview Visualize JSON

```
53 {
54   "_id": "65d8a006188eacfd2a2e01ab",
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": "65d8a006188eacfd2a2e01a3",
67   "code": "BSIS102",
68   "description": "Fundamentals of Programming",
69   "units": 3,
70   "tags": [
71     "BSIS102",
72     "BSIS",
73     "Programming",
74     "Fundamentals"
75   ]
76 }
```

GET http://localhost:3010/api/courses/sortedByName Send

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

Body Cookies Headers (7) Test Results Status: 200 OK Time: 103 ms Size: 3.63 KB Save Response

Pretty Raw Preview Visualize JSON

```
77 {
78   "_id": "65d8a006188eacfd2a2e019e",
79   "code": "BSIT303",
80   "description": "Information Security",
81   "units": 3,
82   "tags": []
83 },
84 {
85   "_id": "65d8a006188eacfd2a2e01aa",
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": "65d8a006188eacfd2a2e01a1",
98   "code": "BSIT403",
99   "description": "Internship/Thesis",
100   "units": 3
```

Challenges faced and solution implemented

During my recent work with the Mongo database, I faced a significant challenge in establishing a connection to it. Despite trying various methods, I couldn't establish a successful connection. This issue caused me a lot of frustration, and I explored different options to overcome it. Eventually, I discovered that the solution was to meticulously examine every line of code to ensure that there were no errors, such as a missing comma or an incorrectly encoded URL.

In addition to this, I also encountered some issues while using Postman. Initially, I was confused about the best approach to use, but after reviewing my code, I was able to identify and correct the mistakes I had made.

By putting in continuous effort and using documentation and resources, I was able to navigate and understand these sections. And despite the challenges, I was able to successfully set up the backend API, retrieve data, and implement basic functionalities. Going forward, I plan to improve my understanding of MongoDB and enhance my skills in handling similar tasks more effectively.