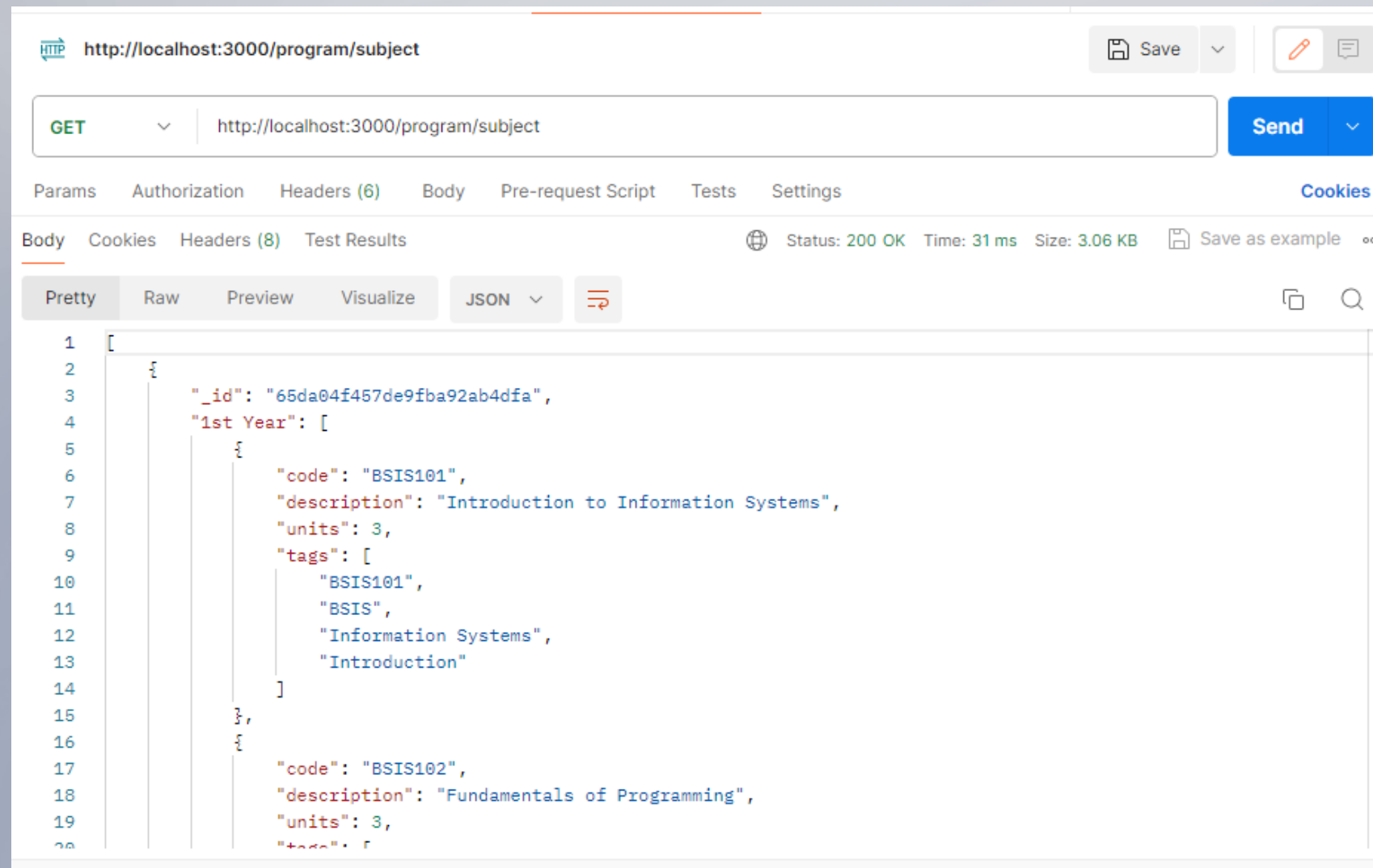
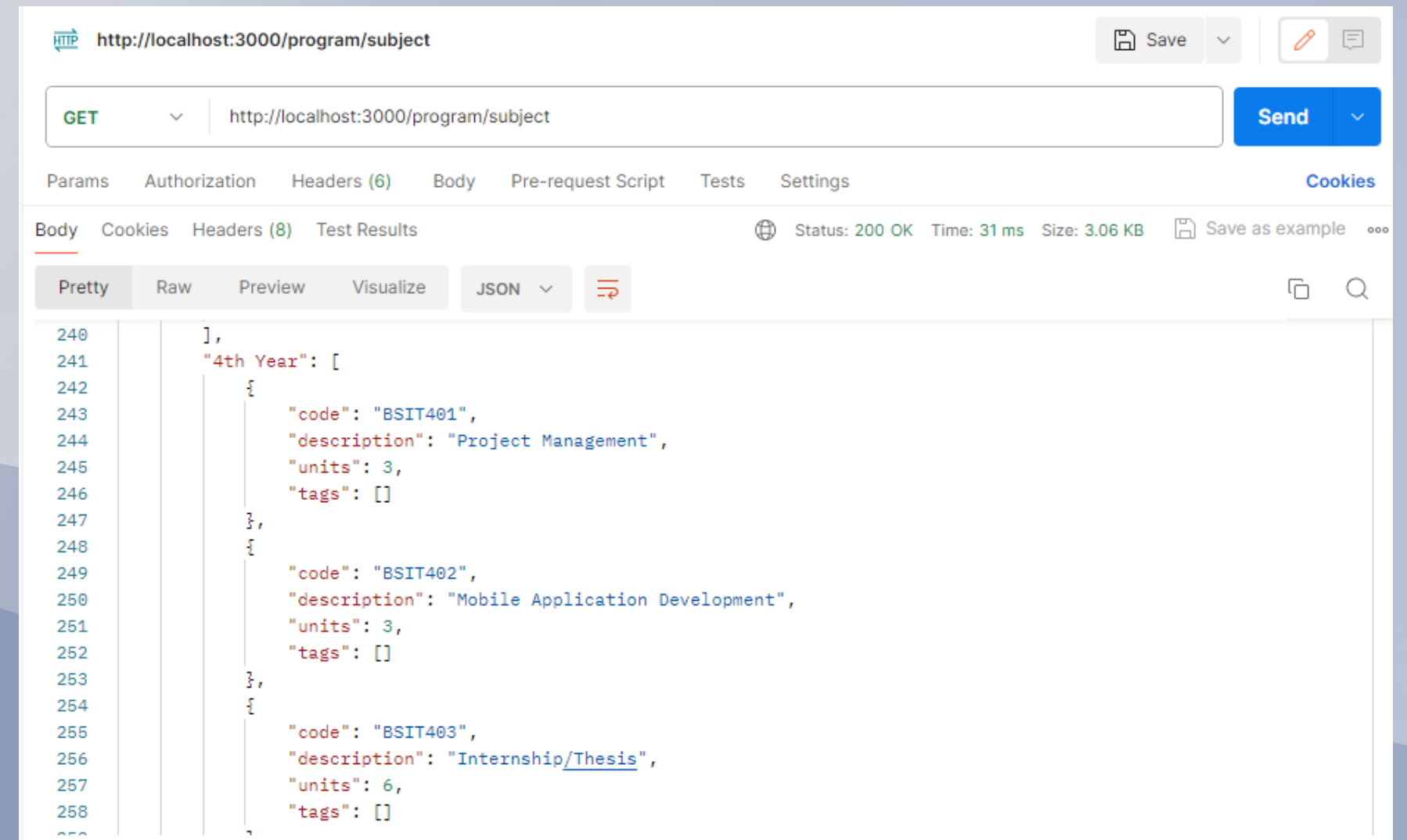


# TEST PROCEDURE

# RETRIVAL OF PUBLISHED BACKEND COURSES NAME SORTED ALPHABETICALLY

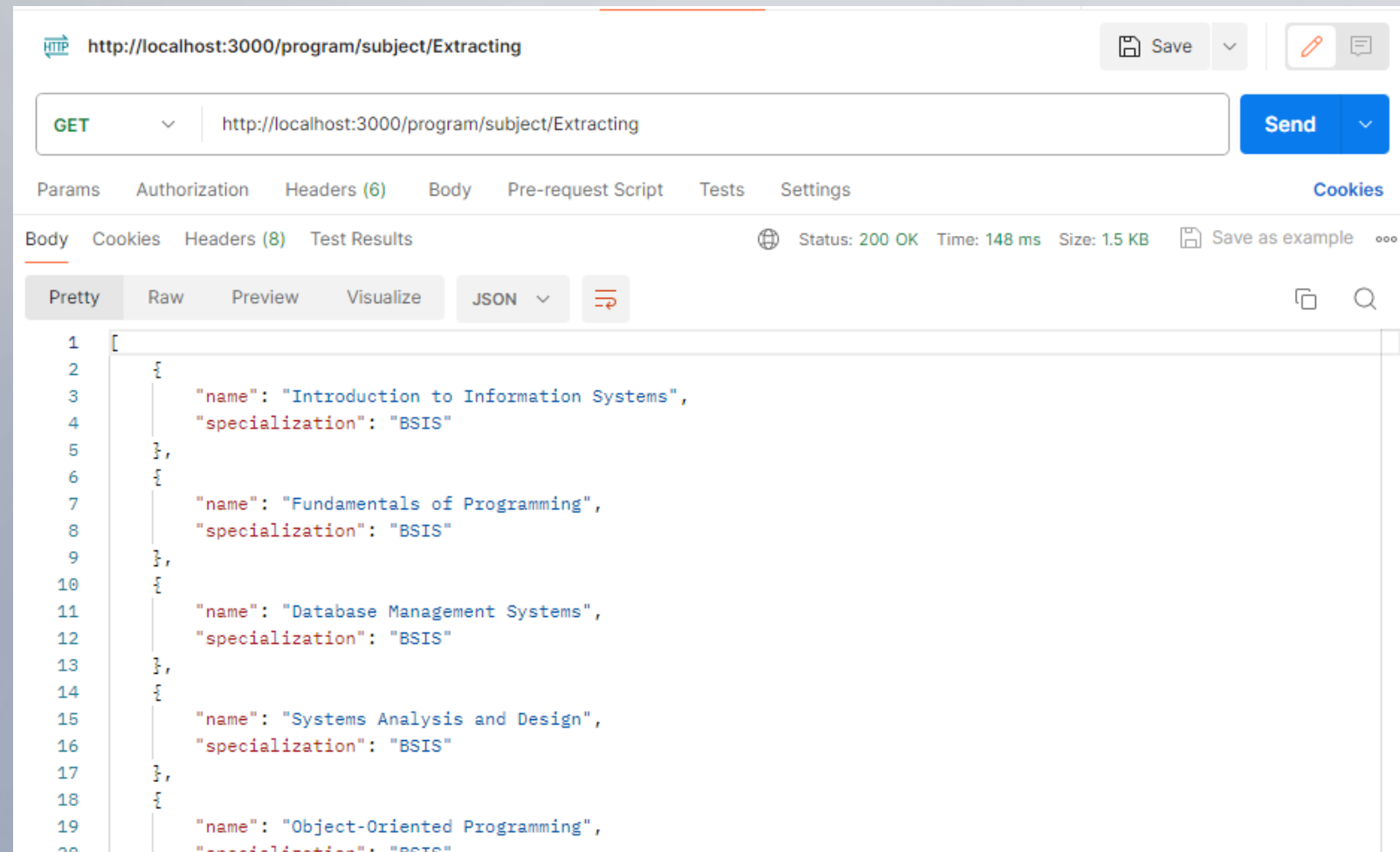


```
1 [
2   {
3     "_id": "65da04f457de9fba92ab4dfa",
4     "1st Year": [
5       {
6         "code": "BSIS101",
7         "description": "Introduction to Information Systems",
8         "units": 3,
9         "tags": [
10          "BSIS101",
11          "BSIS",
12          "Information Systems",
13          "Introduction"
14        ]
15      },
16      {
17        "code": "BSIS102",
18        "description": "Fundamentals of Programming",
19        "units": 3,
20        "tags": [
```

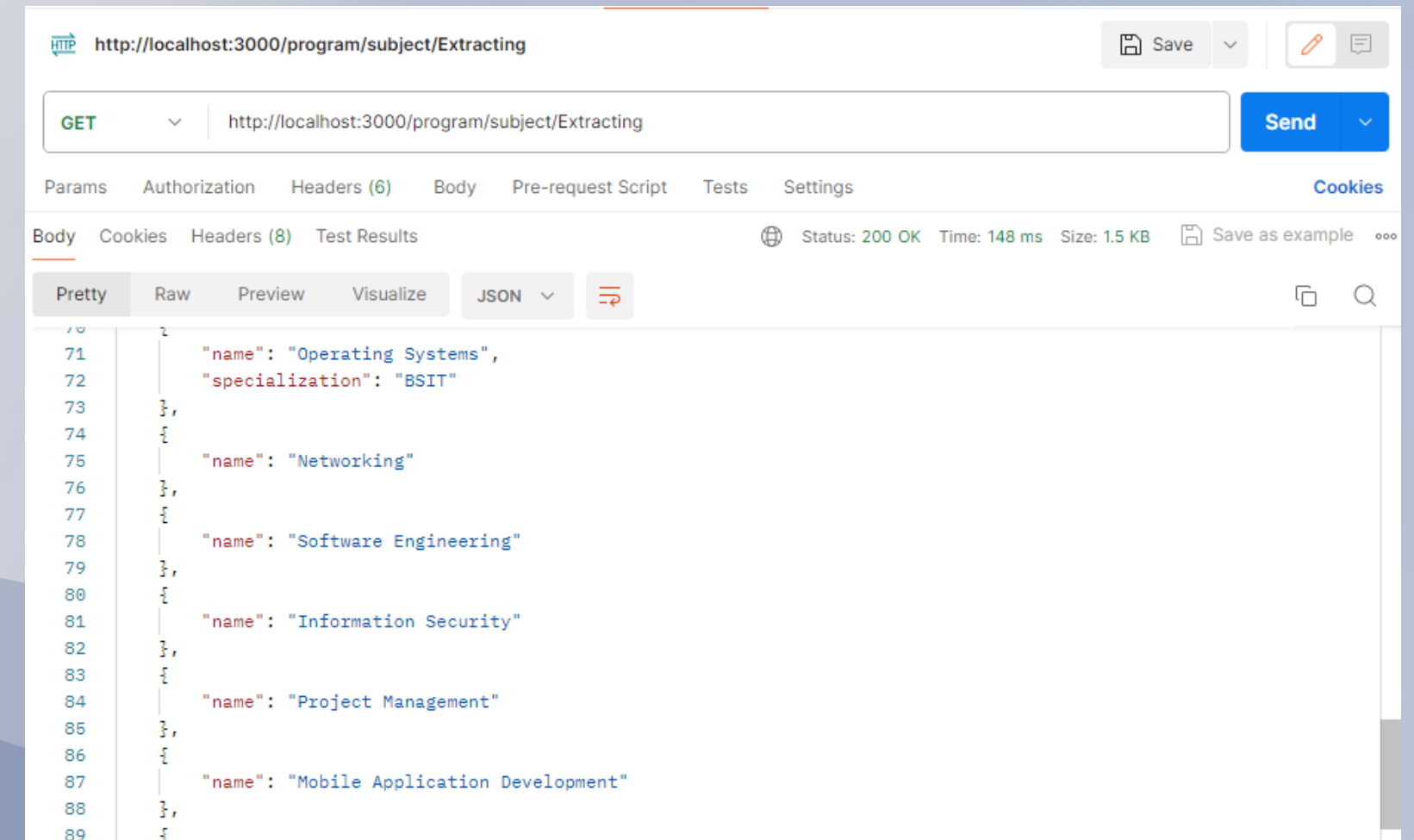


```
240 ],
241   "4th Year": [
242     {
243       "code": "BSIT401",
244       "description": "Project Management",
245       "units": 3,
246       "tags": []
247     },
248     {
249       "code": "BSIT402",
250       "description": "Mobile Application Development",
251       "units": 3,
252       "tags": []
253     },
254     {
255       "code": "BSIT403",
256       "description": "Internship/Thesis",
257       "units": 6,
258       "tags": []
259     }
260   ]
261 }
```

# SELECTING AND EXTRACTING THE NAME AND SPECIALIZATION OF EACH BACKEND COURSES

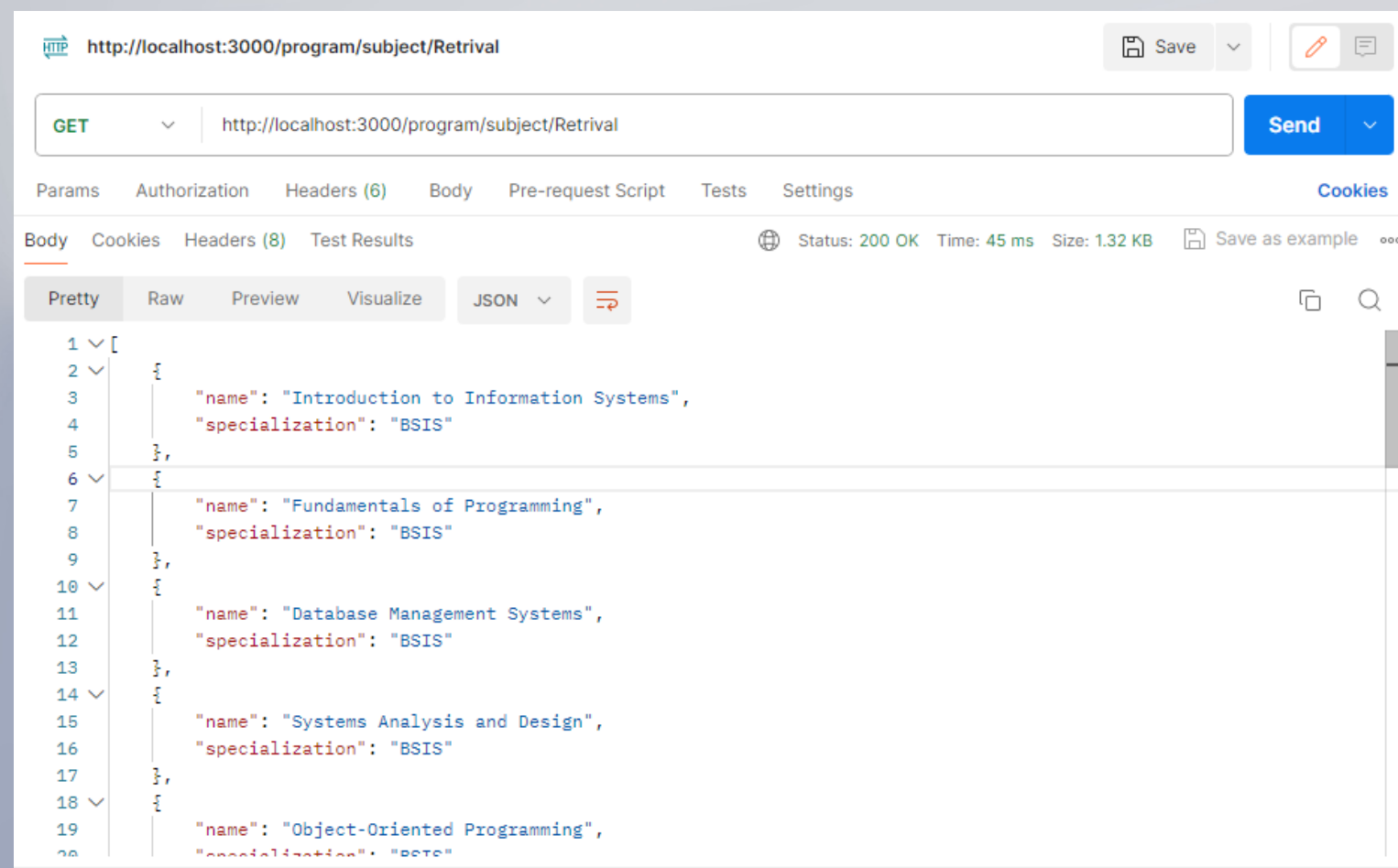


```
1 [
2   {
3     "name": "Introduction to Information Systems",
4     "specialization": "BSIS"
5   },
6   {
7     "name": "Fundamentals of Programming",
8     "specialization": "BSIS"
9   },
10  {
11    "name": "Database Management Systems",
12    "specialization": "BSIS"
13  },
14  {
15    "name": "Systems Analysis and Design",
16    "specialization": "BSIS"
17  },
18  {
19    "name": "Object-Oriented Programming",
20    "specialization": "BSIS"
```

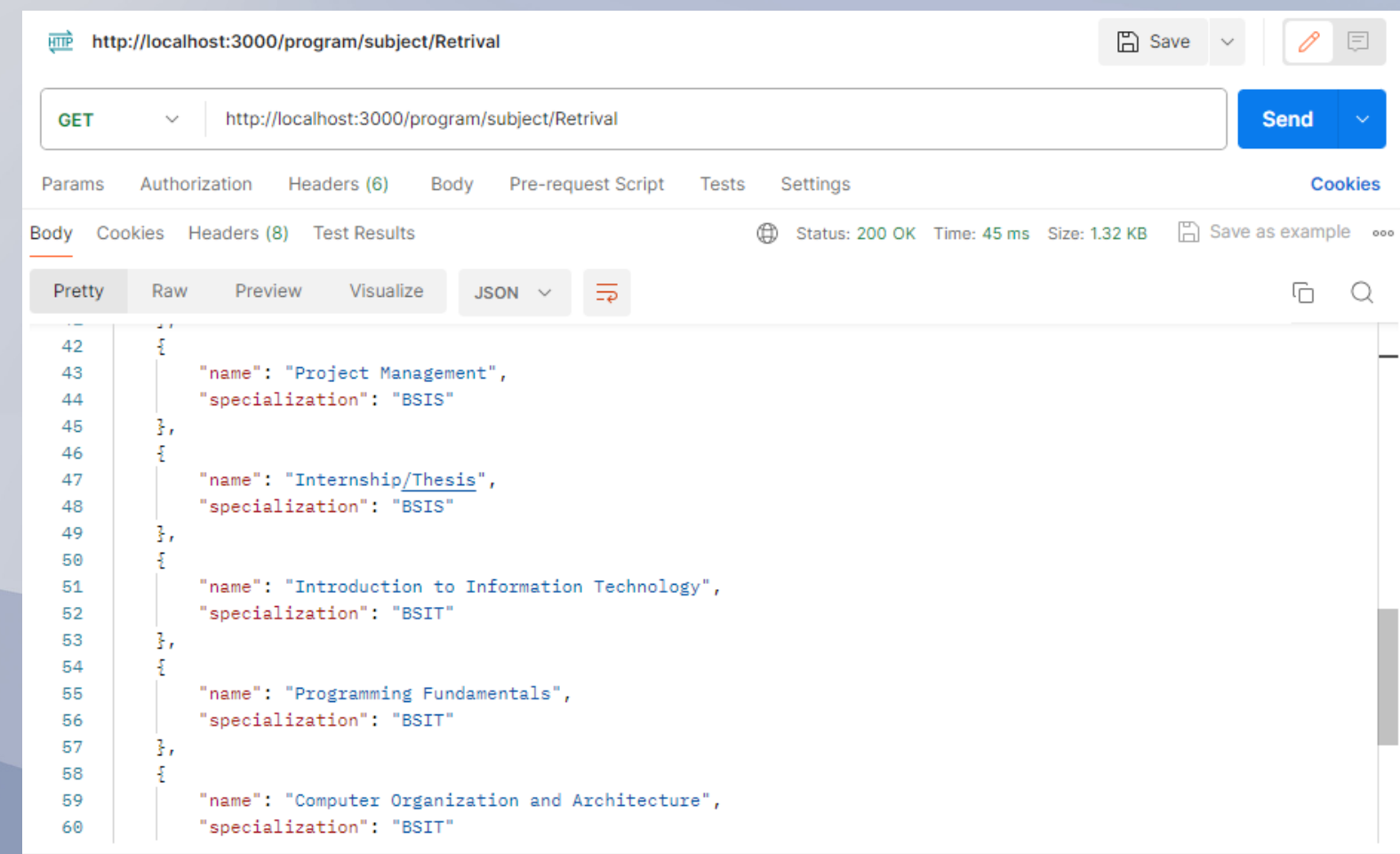


```
70 [
71   {
72     "name": "Operating Systems",
73     "specialization": "BSIT"
74   },
75   {
76     "name": "Networking"
77   },
78   {
79     "name": "Software Engineering"
80   },
81   {
82     "name": "Information Security"
83   },
84   {
85     "name": "Project Management"
86   },
87   {
88     "name": "Mobile Application Development"
89   },
90 ]
```

# RETRIVAL OF BSIS AND BSIT COURSES



```
1 [
2   {
3     "name": "Introduction to Information Systems",
4     "specialization": "BSIS"
5   },
6   {
7     "name": "Fundamentals of Programming",
8     "specialization": "BSIS"
9   },
10  {
11    "name": "Database Management Systems",
12    "specialization": "BSIS"
13  },
14  {
15    "name": "Systems Analysis and Design",
16    "specialization": "BSIS"
17  },
18  {
19    "name": "Object-Oriented Programming",
20    "specialization": "BSIS"
21  }
22 ]
```



```
42 [
43   {
44     "name": "Project Management",
45     "specialization": "BSIS"
46   },
47   {
48     "name": "Internship/Thesis",
49     "specialization": "BSIS"
50   },
51   {
52     "name": "Introduction to Information Technology",
53     "specialization": "BSIT"
54   },
55   {
56     "name": "Programming Fundamentals",
57     "specialization": "BSIT"
58   },
59   {
60     "name": "Computer Organization and Architecture",
61     "specialization": "BSIT"
62   }
63 ]
```

# PROBLEMS

During the process of working on this activity, I encountered a multitude of errors. Specifically, there was an issue related to JavaScript that required thorough testing and debugging. Every step I took required me to pay attention to details and thus it took me longer to return home. Despite the challenges, I remain committed to ensuring accuracy throughout the development.

# SOLUTION

I asked assistance from friends to troubleshoot the issues that I was experiencing. With their help, I was able to fix the problems and test the solution with Postman.