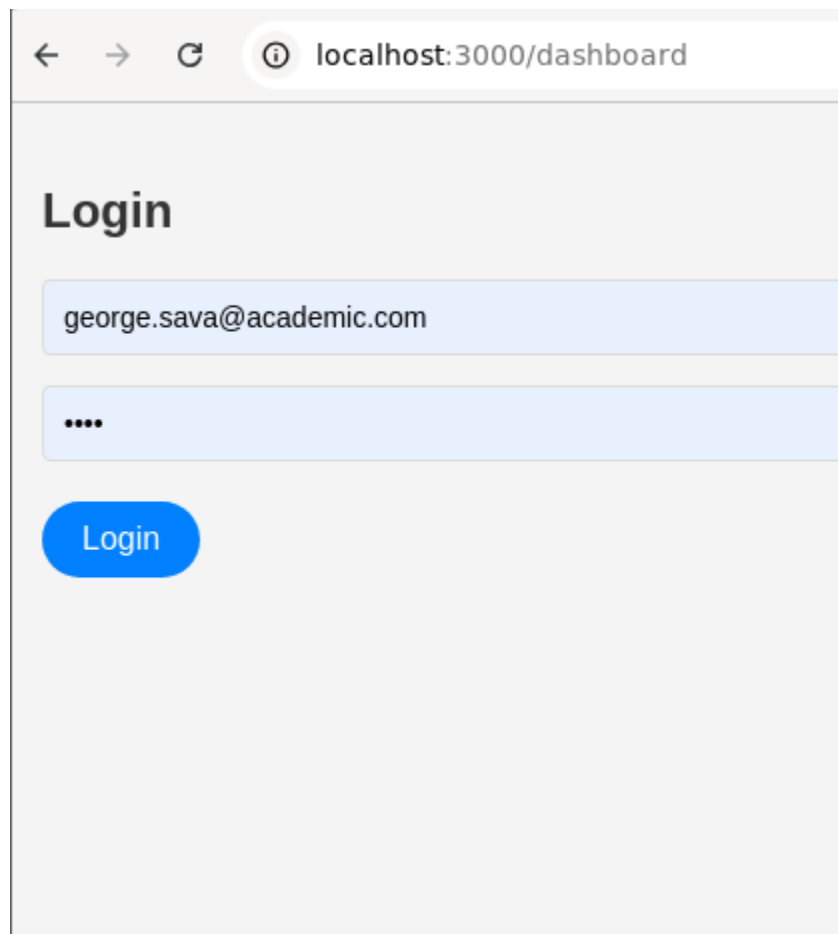


Profesor React:



← → ↻ ⓘ localhost:3000/dashboard

## Login

george.sava@academic.com

....

Login

## Professor Dashboard

Logout

### Assigned Courses

- SOC (4 credits) [View Details](#)
- SM (5 credits) [View Details](#)
- PW (5 credits) [View Details](#)
- PDM (4 credits) [View Details](#)

->

- SM (5 credits) [View Details](#)
- PW (5 credits) [View Details](#)
- PDM (4 credits) [View Details](#)

## Details for Lecture: SOC

**Year:** 3

**Credits:** 4

### Information

Examenul e pe 28.06.2024

### Evaluation Tests

- Test 1 - 30%
- Test 2 - 20%
- Examen Final - 50%

### Course Materials

File: Laborator\_Complet.pdf

### Lab Materials

- Lab1.pdf
- Lab2.pdf
- Lab3.pdf

### Enrolled Students

- Robert Popescu - robert.popescu@student.com
- Vlad Popescu - vlad.popescu@student.com
- Simona Rosu - simona.rosu@student.com
- Sofia Lemnea - sofia.lemnea@student.com

->

Year: 3

Credits: 4

### Information

Examenul e pe 30.06.2024

### Evaluation Tests

```
[
  {
    "testName": "Test 1",
    "weight": 30
  },
  {
    "testName": "Test 2",
    "weight": 20
  },
  {
    "testName": "Examen Final",
    "weight": 50
  }
]
```

### Course Materials

File: Laborator\_Complet.pdf

### Lab Materials

- Lab1.pdf
- Lab2.pdf
- Lab3.pdf

### Enrolled Students

- Robert Popescu - robert.popescu@student.com
- Vlad Popescu - vlad.popescu@student.com
- Simona Rosu - simona.rosu@student.com
- Sofia Lemnea - sofia.lemnea@student.com

Save Changes

Cancel

Student React

[Logout](#)

**Welcome, Robert Popescu**

### My Lectures

- [PW](#)
- [SOC](#)
- [SM](#)

[Back to Dashboard](#)

## Lecture: PW

Year: 3

Credits: 5

### Details

**Information:** Examenul e pe 08.07.2024

### Evaluation Tests

- Test A - 30%
- Test B - 20%
- Test C - 10%
- Examen final - 30%

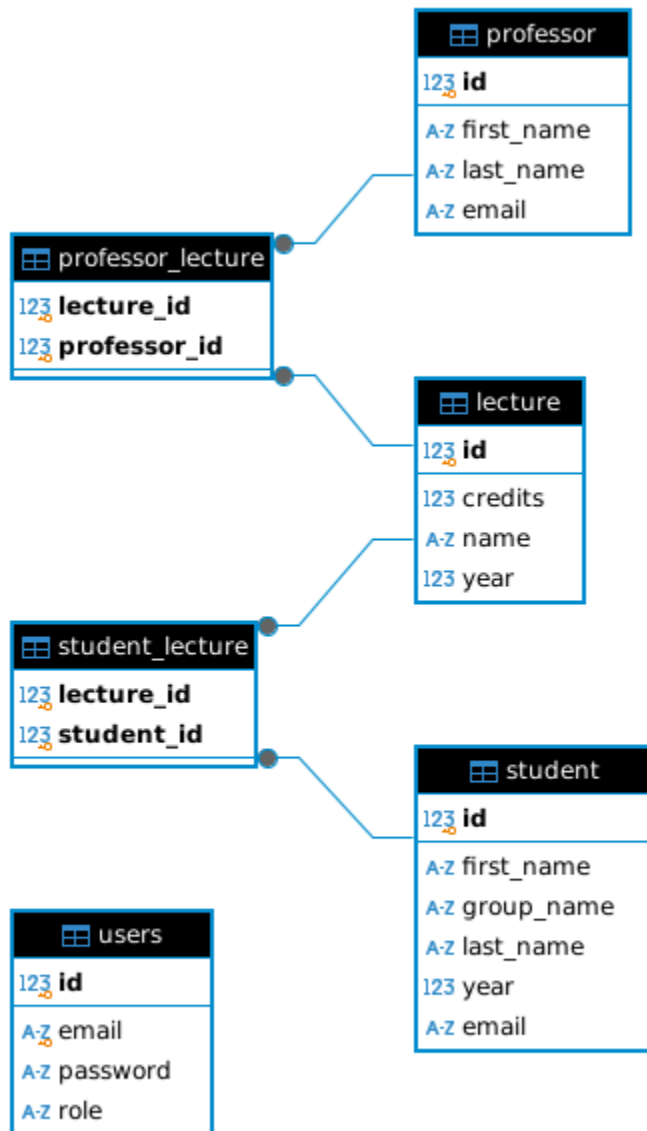
### Course Materials

File: Laborator\_Complet.pdf

### Lab Materials

- Lab1.pdf
- Lab2.pdf
- Lab3.pdf

Diagrama bază de date:



## OpenAPI

|                                     |                                                      |
|-------------------------------------|------------------------------------------------------|
| lecture-extended-controller ^       |                                                      |
| POST                                | /api/mongo/lectures v                                |
| DELETE                              | /api/mongo/lectures/{lectureId} v                    |
| user-controller ^                   |                                                      |
| GET                                 | /api/idm/users v                                     |
| POST                                | /api/idm/users v                                     |
| GET                                 | /api/idm/users/{id} v                                |
| DELETE                              | /api/idm/users/{id} v                                |
| student-controller ^                |                                                      |
| GET                                 | /api/academia/students v                             |
| POST                                | /api/academia/students v                             |
| DELETE                              | /api/academia/students v                             |
| GET                                 | /api/academia/students/by-email v                    |
| ...                                 |                                                      |
| professor-with-lecture-controller ^ |                                                      |
| POST                                | /api/academia/professors/{id}/lectures/{lectureId} v |
| GET                                 | /api/academia/professors/{id}/lectures v             |
| lecture-controller ^                |                                                      |
| GET                                 | /api/academia/lectures v                             |
| POST                                | /api/academia/lectures v                             |
| DELETE                              | /api/academia/lectures v                             |
| GET                                 | /api/academia/lectures/{id}/students v               |
| GET                                 | /api/academia/lectures/{id}/details v                |
| Schemas ^                           |                                                      |
| EvaluationTest                      |                                                      |

## Postman

Observație:

În fiecare request se află:



|                |                 |                |        |         |          |
|----------------|-----------------|----------------|--------|---------|----------|
| Params         | Authorization ● | Headers (10)   | Body ● | Scripts | Settings |
| Auth Type      |                 |                |        |         |          |
| Bearer Token v |                 | Token          |        |         |          |
|                |                 | {{adminToken}} |        |         |          |

sau {{studToken}} / {{profToken}} (în funcție de permisiuni)

## gRPC

 localhost:50051 IdmService / Authenticate**Message** Authorization Metadata Service definition Scripts Settings

```
1 {
2   | "Username": "mitica.dobrin@academic.com",
3   | "Password": "md_a"
4 }
```

  Use Example Message | ▾**Response** Metadata (1) Trailers Test results

```
1
2   "TokenValue": "eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vaWRtLXN1cnZpY2UubG9jYWwiLCJzdWIiOiIxMyIsInJvbGUiOiJwcm9mZXNzb3"
3
```

 localhost:50051 IdmService / Authenticate**Message** Authorization Metadata Service definition Scripts Settings

```
1 {
2   | "Username": "robert.popescu@student.com",
3   | "Password": "rp_s"
4 }
```

  Use Example Message | ▾**Response** Metadata (1) Trailers Test results



```
1 {
2   | "TokenValue": "eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vaWRtLXN1cnZpY2UubG9jYWwiLCJzdWIiOi"
3 }
```



 localhost:50051 IdmService / Authenticate

Message   Authorization   Metadata   Service definition   Scripts   Settings


```
1  {
2    |  "Username": "admin@staff.com",
3    |  "Password": "parola_strong"
4  }
```

  Use Example Message   ▾

Response   Metadata (1)   Trailers   Test results




```
1  {
2    |  "TokenValue": "eyJhbGciOiJIUzI1NiJ9.eyJpc3MiOiJodHRwOi8vaWRtLXN1cnZpY2UubG9jYWwiLCJzZWl0IiIxNCIsIn
3  }
```

 localhost:50051

Message Authorization Metadata Service definition Scripts Se

```
1 {  
2   "Id": "15"  
3 }
```

 Use Example Message | v

Response Metadata (1) Trailers Test results

```
1 {  
2   "Id": "15",  
3   "Email": "robert.popescu@student.com",  
4   "Role": "student"  
5 }
```

[Message](#) [Authorization](#) [Metadata](#) [Service definition](#) [Scripts](#) [Settings](#)[Response](#) [Metadata \(1\)](#) [Trailers](#) [Test results](#)

```
1  {
2    "Users": [
3      {
4        "Id": "13",
5        "Email": "mitica.dobrin@academic.com",
6        "Role": "professor"
7      },
8      {
9        "Id": "14",
10       "Email": "admin@staff.com",
11       "Role": "admin"
12     },
13     {
14       "Id": "15",
15       "Email": "robert.popescu@student.com",
16       "Role": "student"
17     },
18     {
19       "Id": "16",
```

localhost:50051

IdmService / ValidateToken


Message Authorization Metadata Service definition Scripts Settings

```
1 {
2   "TokenValue": "{{profToken}}"
3 }
```

Use Example Message

Response Metadata (1) Trailers Test results



```
1 {
2   "Valid": true,
3   "Expired": false,
4   "Subject": "13",
5   "Role": "professor",
6   "Email": "mitica.dobrin@academic.com",
7   "Message": ""
8 }
```

 localhost:50051

 IdmService / DestroyToken

**Message**   Authorization   Metadata   Service definition   Scripts   Settings

```
1  {
2    |    "TokenValue": "{{profToken}}"
3    |
4  }
```

  Use Example Message | ▾



**Response**   Metadata (1)   Trailers   Test results

```
⌵
⇒
1  {
2    |    "Success": true,
3    |    "Message": "Token destroyed"
4  }
```

 localhost:50051 IdmService / CreateUser

Message   Authorization   Metadata   Service definition   Scripts   Settings

```
1  {
2    "Email": "sebastian.tinca@student.com",
3    "Password": "st_s",
4    "Role": "student",
5    "TokenValue": "{{adminToken}}"
6  }
```

  Use Example Message | ▾

Response   Metadata (1)   Trailers   Test results



```
1  {
2    "Id": "23",
3    "Email": "sebastian.tinca@student.com",
4    "Role": "student"
5  }
```

mySQL

Lectures

POST http://localhost:8084/api/academia/lectures

Params Authorization Headers (10) Body Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON

```
1 {
2   "name": "PIU",
3   "year": "4",
4   "credits": "4"
5 }
```

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1 {
2   "id": 35,
3   "name": "PIU",
4   "year": 4,
5   "credits": 4,
6   "_links": {
7     "self": {
8       "href": "http://localhost:8084/api/academia/lectures?id=35"
9     },
10    "all-lectures": {
11      "href": "http://localhost:8084/api/academia/lectures?page=0&size=10&name,year,credits",
12      "templated": true
13    }
14  }
15 }
```

HTTP Lectures / getAll

GET

http://localhost:8084/api/academia/lectures

Params Authorization Headers (9) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON

⌵

```
1  {
2    "_embedded": {
3      "lectureList": [
4        {
5          "id": 19,
6          "name": "SOC",
7          "year": 3,
8          "credits": 4,
9          "_links": {
10           "self": {
11             "href": "http://localhost:8084/api/academia/lectures?id=19"
12           }
13         }
14       },
15       {
16         "id": 20,
17         "name": "SM",
18         "year": 3,
19         "credits": 5,
20         "_links": {
21           "self": {
22             "href": "http://localhost:8084/api/academia/lectures?id=20"
23           }
24         }
25       },
26       {
27         "id": 21,
28         "name": "PW",
```



GET http://localhost:8084/api/academia/lectures/22/students

Params Authorization Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1  {
2    "_embedded": {
3      "studentList": [
4        {
5          "id": 7,
6          "firstName": "Vlad",
7          "lastName": "Popescu",
8          "groupName": "1408A",
9          "email": "vlad.popescu@student.com",
10         "year": 4,
11         "lectures": [
12           {
13             "id": 21,
```

```
43 {
44   "id": 10,
45   "firstName": "Simona",
46   "lastName": "Rosu",
47   "groupName": "1308A",
48   "email": "simona.rosu@student.com",
49   "year": 3,
50   "lectures": [
51     {
52       "id": 21,
53       "name": "PW",
54       "year": 3,
55       "credits": 5
56     },
57     {
58       "id": 22,
59       "name": "SD",
60       "year": 3,
61       "credits": 4
62     },
63     {
64       "id": 19,
65       "name": "SOC",
66       "year": 3,
```

GET http://localhost:8084/api/academia/lectures?id=19

Params ● Authorization ● Headers (9) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1  {
2    "id": 19,
3    "name": "SOC",
4    "year": 3,
5    "credits": 4,
6    "_links": {
7      "self": {
8        "href": "http://localhost:8084/api/academia/lectures?id=19"
9      },
10     "all-lectures": {
11       "href": "http://localhost:8084/api/academia/lectures?page=0&size=10{name,year,credits}",
12       "templated": true
13     }
14   }
15 }
```

GET http://localhost:8084/api/academia/lectures?year=3&page=0&items\_per\_page=5

Params ● Authorization ● Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize

JSON ▼



```

1  {
2    "_embedded": {
3      "lectureList": [
4        {
5          "id": 19,
6          "name": "SOC",
7          "year": 3,
8          "credits": 4,
9          "_links": {
10           "self": {
11             "href": "http://localhost:8084/api/academia/lectures?id=19"
12           }
13         }
14       },
15       {
16         "id": 20,
17         "name": "SM",
18         "year": 3,
19         "credits": 5,
20         "_links": {
21           "self": {
22             "href": "http://localhost:8084/api/academia/lectures?id=20"
23           }
24         }
25       },
26       {
27         "id": 21,
28         "name": "PW",

```

Lectures Extended

GET http://localhost:8083/api/academia/lectures/21/details

Params Authorization Headers (8) Body Scripts Settings

Auth Type

Bearer Token

Token

{{profToken}}

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize


JSON



```
1 {
2   "lecture": {
3     "id": 21,
4     "name": "PW",
5     "year": 3,
6     "credits": 5
7   },
8   "extended": {
9     "id": "6771b781d1bdc245c62c82b4",
10    "lectureId": 21,
11    "information": "Examenul e pe 08.07.2024",
12    "evaluationTests": [
13      {
14        "testName": "Test A",
15        "weight": 30.0
16      },
17      {
18        "testName": "Test B",
19        "weight": 20.0
20      },
21      {
22        "testName": "Test C",
23        "weight": 10.0
24      }
25    ]
26  }
27 }
```

## Professors

 Professors / Create

**POST**  http://localhost:8083/api/academia/professors

Params Authorization  Headers (10) **Body**  Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL **JSON** 

```
1 {
2   "firstName": "Ana",
3   "lastName": "Roza"
4 }
```

**Body** Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON 



```
1 {
2   "id": 8,
3   "firstName": "Ana",
4   "lastName": "Roza",
5   "email": "ana.roza@academic.com",
6   "lectures": [],
7   "_links": {
8     "self": {
9       "href": "http://localhost:8083/api/academia/professors?id=8"
10    },
11    "all-professors": {
12      "href": "http://localhost:8083/api/academia/professors?page=0&size=10{&firstName,lastName}",
13      "templated": true
14    }
15  }
16 }
```

GET

http://localhost:8083/api/academia/professors

Params Authorization Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```

1  {
2    "_embedded": {
3      "professorList": [
4        {
5          "id": 5,
6          "firstName": "Mitica",
7          "lastName": "Dobrin",
8          "email": "mitica.dobrin@academic.com",
9          "lectures": [
10           {
11             "id": 22,
12             "name": "SD",
13             "year": 3,
14             "credits": 4
15           }
16         ],
17         "_links": {
18           "self": {
19             "href": "http://localhost:8083/api/academia/professors?id=5"
20           }
21         }
22       },
23       {
24         "id": 6,
25         "firstName": "George",
26         "lastName": "Sava",
27         "email": "george.sava@academic.com",
28         "lectures": [

```

GET http://localhost:8083/api/academia/professors?id=5

Params ● Authorization ● Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON ▾

```
1  {
2    "id": 5,
3    "firstName": "Mitica",
4    "lastName": "Dobrin",
5    "email": "mitica.dobrin@academic.com",
6    "lectures": [
7      {
8        "id": 22,
9        "name": "SD",
10       "year": 3,
11       "credits": 4
12     }
13   ],
14   "_links": {
15     "self": {
16       "href": "http://localhost:8083/api/academia/professors?id=5"
17     },
18     "parent": {
19       "href": "http://localhost:8083/api/academia/professors?page=0&size=10{&firstName,lastName}",
20       "templated": true
21     }
22   }
23 }
```



GET http://localhost:8083/api/academia/professors/by-email?email=mitica.dobrin@academic.com

Params ● Authorization ● Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```

1  {
2    "id": 5,
3    "firstName": "Mitica",
4    "lastName": "Dobrin",
5    "email": "mitica.dobrin@academic.com",
6    "lectures": [
7      {
8        "id": 22,
9        "name": "SD",
10       "year": 3,
11       "credits": 4
12     }
13   ],
14   "_links": {
15     "self": {
16       "href": "http://localhost:8083/api/academia/professors?id=5"
17     },
18     "all-professors": {
19       "href": "http://localhost:8083/api/academia/professors?page=0&size=10{&firstName,lastName}",
20       "templated": true
21     }
22   }
23 }
```

GET http://localhost:8083/api/academia/professors/5/lectures

Params Authorization Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```

1  {
2    "_embedded": {
3      "lectureList": [
4        {
5          "id": 22,
6          "name": "SD",
7          "year": 3,
8          "credits": 4,
9          "_links": {
10           "self": {
11             "href": "http://localhost:8083/api/academia/lectures?id=22"
12           }
13         }
14       }
15     ],
16   },
17   "_links": {
18     "self": {
19       "href": "http://localhost:8083/api/academia/professors/5/lectures"
20     },
21     "parent": {
22       "href": "http://localhost:8083/api/academia/professors?id=5"
23     }
24   }
25 }
```

GET http://localhost:8083/api/academia/professors?firstName=Mitica&lastName=Dobrin&page=0&items\_per\_page=5

Params Authorization Headers (8) Body Scripts Settings

body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON

```

1  {
2    "_embedded": {
3      "professorList": [
4        {
5          "id": 5,
6          "firstName": "Mitica",
7          "lastName": "Dobrin",
8          "email": "mitica.dobrin@academic.com",
9          "lectures": [
10         {
11           "id": 22,
12           "name": "SD",
13           "year": 3,
14           "credits": 4
15         }
16       ],
17       "_links": {
18         "self": {
19           "href": "http://localhost:8083/api/academia/professors?id=5"
20         }
21       }
22     }
23   ],
24   "_links": {
25     "self": {
26       "href": "http://localhost:8083/api/academia/professors?firstName=Mitica&lastName=Dobrin&items_per_page=5&page=0&size=10"
27     }
28   }

```

## Students

POST http://localhost:8082/api/academia/students

Params Authorization Headers (10) Body Scripts Settings

☐ none ☐ form-data ☐ x-www-form-urlencoded ☒ raw ☐ binary ☐ GraphQL JSON

```
1 {
2   "firstName": "paul",
3   "lastName": "atreides",
4   "groupName": "1408B",
5   "year": 4
6 }
```

Body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON

```
1 {
2   "id": 12,
3   "firstName": "paul",
4   "lastName": "atreides",
5   "groupName": "1408B",
6   "email": "paul.atreides@student.com",
7   "year": 4,
8   "lectures": [],
9   "_links": {
10    "self": {
11      "href": "http://localhost:8082/api/academia/students?id=12"
12    },
13    "all-students": {
14      "href": "http://localhost:8082/api/academia/students?page=0&size=10{&firstName,lastName,groupName,year}",
15      "templated": true
16    }
17  }
18 }
```

GET

http://localhost:8082/api/academia/students

Params Authorization Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1  {
2    "_embedded": {
3      "studentList": [
4        {
5          "id": 7,
6          "firstName": "Vlad",
7          "lastName": "Popescu",
8          "groupName": "1408A",
9          "email": "vlad.popescu@student.com",
10         "year": 4,
11         "lectures": [
12           {
13             "id": 21,
14             "name": "PW",
15             "year": 3,
16             "credits": 5
17           },
18           {
19             "id": 22,
20             "name": "SD",
21             "year": 3,
22             "credits": 4
23           },
24           {
25             "id": 19,
26             "name": "SOC",
27             "year": 3,
28             "credits": 4

```

GET http://localhost:8082/api/academia/students?id=11

Params Authorization Headers (8) Body Scripts Settings

body Cookies Headers (14) Test Results

Pretty Raw Preview Visualize JSON

```

1  {
2    "id": 11,
3    "firstName": "Simon",
4    "lastName": "Ionescu",
5    "groupName": "14088",
6    "email": "simon.ionescu@student.com",
7    "year": 4,
8    "lectures": [
9      {
10       "id": 23,
11       "name": "PDM",
12       "year": 4,
13       "credits": 4
14     }
15   ],
16   "_links": {
17     "self": {
18       "href": "http://localhost:8082/api/academia/students?id=11"
19     },
20     "all-students": {
21       "href": "http://localhost:8082/api/academia/students?page=0&size=10{&firstName,lastName,groupName,year}",
22       "templated": true
23     }
24   }
25 }
```

GET ▼ http://localhost:8082/api/academia/students/by-email?email=simon.ionescu@student.com

Params ● Authorization ● Headers (8) Body Scripts Settings

Body Cookies Headers (14) Test Results

```

1  {
2      "id": 11,
3      "firstName": "Simon",
4      "lastName": "Ionescu",
5      "groupName": "1408B",
6      "email": "simon.ionescu@student.com",
7      "year": 4,
8      "lectures": [
9          {
10             "id": 23,
11             "name": "PDM",
12             "year": 4,
13             "credits": 4
14         }
15     ],
16     "_links": {
17         "self": {
18             "href": "http://localhost:8082/api/academia/students?id=11"
19         },
20         "all-students": {
21             "href": "http://localhost:8082/api/academia/students?page=0&size=10{&firstName,lastName,groupName,year}",
22             "templated": true
23         }
24     }
25 }

```

## Users

GET http://localhost:8083/api/idm/users

Params Authorization ● Headers (9) Body Scripts Settings

Body Cookies Headers (14) Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1  [
2    {
3      "id": 13,
4      "email": "mitica.dobrin@academic.com",
5      "password": "md_a",
6      "role": "professor"
7    },
8    {
9      "id": 14,
10     "email": "admin@staff.com",
11     "password": "parola_strong",
12     "role": "admin"
13   },
14   {
15     "id": 15,
16     "email": "robert.popescu@student.com",
17     "password": "rp_s",
18     "role": "student"
19   },
20   {
21     "id": 16,
22     "email": "sofia.lemnea@student.com",
23     "password": "sl_s",
24     "role": "student"
25   },
26   {
27     "id": 17,
28     "email": "simona.rosu@student.com",
```



## openAPI

 Utility / openapi

GET



http://localhost:8084/v3/api-docs

Params

Authorization ●

Headers (8)

Body

Scripts

Settings

Body

Cookies

Headers (14)

Test Results

Pretty

Raw

Preview

Visualize

JSON



```
1  {
2    "openapi": "3.0.1",
3    "info": {
4      "title": "OpenAPI definition",
5      "version": "v0"
6    },
7    "servers": [
8      {
9        "url": "http://localhost:8084",
10       "description": "Generated server url"
11     }
12   ],
13   "paths": {
14     "/api/mongo/lectures": {
15       "put": {
16         "tags": [
17           "lecture-extended-controller"
18         ],
19         "operationId": "createOrUpdateLectureExtended",
20         "requestBody": {
21           "content": {
22             "application/json": {
23               "schema": {
24                 "$ref": "#/components/schemas/LectureExtended"
25               }
26             }
27           },
28           "required": true
```