

1.

```
StatusCode      : 200
StatusDescription :
Content         : [{"id":1,"username":"132122","name":"Kostadin",                "surname":"Mishev",
                  "groupName":null}, {"id":49,"username":"231044"...
RawContent      : HTTP/1.1 200
                  Transfer-Encoding: chunked
                  Connection: keep-alive
                  Content-Type: application/json
                  Date: Mon, 11 Nov 2024 22:21:04 GMT
                  Server: nginx/1.18.0 (Ubuntu)

Forms           : [{"id":1,"username":"132122","n...
                  : {}
Headers         : {[Transfer-Encoding, chunked], [Connection,
                  keep-alive], [Content-Type, application/json],
                  [Date, Mon, 11 Nov 2024 22:21:04 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}

PS C:\Users\User1> curl -o students.json http://185.153.49.149/lab/api/kmib/students
PS C:\Users\User1> curl -I http://185.153.49.149/lab/api/kmib/students

cmdlet Invoke-WebRequest at command pipeline position 1
Supply values for the following parameters:
Uri: http://185.153.49.149/lab/api/kmib/students
curl : Cannot find drive. A drive with the name 'http' does not
exist.
At line:1 char:1
+ curl -I http://185.153.49.149/lab/api/kmib/students
+ ~~~~~
+ CategoryInfo          : ObjectNotFound: (http:String) [Invoke-WebRequ
e-WebRequest], DriveNotFoundException
+ FullyQualifiedErrorId : DriveNotFound,Microsoft.PowerShell.Commands.InvokeWebRequestCommand

PS C:\Users\User1> Invoke-WebRequest -Uri "http://185.153.49.149/lab/api/kmib/students" -Method Head

StatusCode      : 200
StatusDescription :
Content         :
RawContent      : HTTP/1.1 200
                  Connection: keep-alive
                  Content-Type: application/json
                  Date: Mon, 11 Nov 2024 22:25:15 GMT
                  Server: nginx/1.18.0 (Ubuntu)

Forms           : {}
Headers         : {[Connection, keep-alive], [Content-Type,
                  application/json], [Date, Mon, 11 Nov 2024
                  22:25:15 GMT], [Server, nginx/1.18.0 (Ubuntu)]}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 0
```

`curl http://185.153.49.149/lab/api/kmib/students`

- Враќа статус код 200 ОК, што значи дека барањето е успешно извршено и серверот враќа податок. Серверот ги врати податоците за студентите со статусен код 200 ОК и податоците се во формат JSON.

```
curl -o students.json http://185.153.49.149/lab/api/kmib/students
```

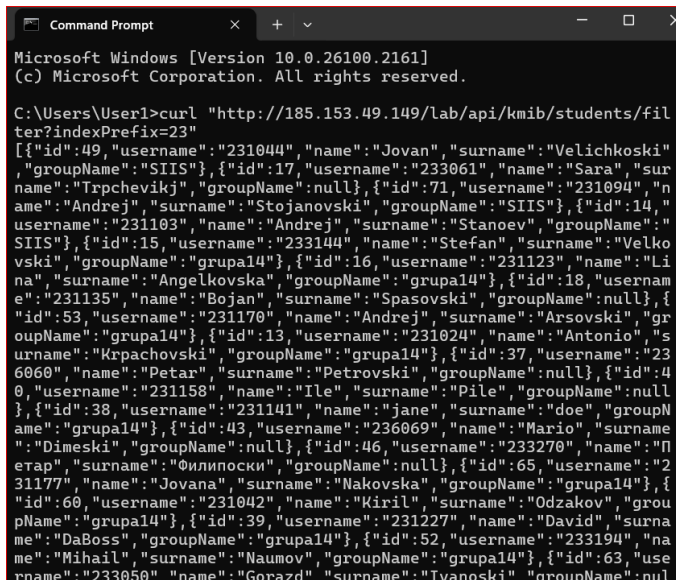
- Ја зачував JSON содржината во фајлот students.json

```
Invoke-WebRequest -Uri "http://185.153.49.149/lab/api/kmib/students" -Method Head
```

- Се враќаат заглавијата **Content-Type** и **Server**.

```
curl -v http://185.153.49.149/lab/api/kmib/students
wget --server-response http://185.153.49.149/lab/api/kmib/students
```

2. C:\Users\User1>curl <http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23>



```
Microsoft Windows [Version 10.0.26100.2161]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User1>curl "http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23"
[{"id":49,"username":"231044","name":"Jovan","surname":"Velichkoski","groupName":"SIIS"}, {"id":17,"username":"233061","name":"Sara","surname":"Trpchevikj","groupName":null}, {"id":71,"username":"231094","name":"Andrej","surname":"Stojanovski","groupName":"SIIS"}, {"id":14,"username":"231103","name":"Andrej","surname":"Stanoev","groupName":"SIIS"}, {"id":15,"username":"233144","name":"Stefan","surname":"Velkovski","groupName":"grup14"}, {"id":16,"username":"231123","name":"Lina","surname":"Angelkovska","groupName":"grup14"}, {"id":18,"username":"231135","name":"Bojan","surname":"Spasovski","groupName":null}, {"id":53,"username":"231170","name":"Andrej","surname":"Arsovski","groupName":"grup14"}, {"id":13,"username":"231024","name":"Antonio","surname":"Krpachovski","groupName":"grup14"}, {"id":37,"username":"236060","name":"Petar","surname":"Petrovski","groupName":null}, {"id":40,"username":"231158","name":"Ile","surname":"Pile","groupName":null}, {"id":38,"username":"231141","name":"jane","surname":"doe","groupName":"grup14"}, {"id":43,"username":"236069","name":"Mario","surname":"Dimeski","groupName":null}, {"id":46,"username":"233270","name":"Петар","surname":"Филипоски","groupName":null}, {"id":65,"username":"231177","name":"Jovana","surname":"Nakovska","groupName":"grup14"}, {"id":60,"username":"231042","name":"Kiril","surname":"Odzakov","groupName":"grup14"}, {"id":39,"username":"231227","name":"David","surname":"DaBoss","groupName":"grup14"}, {"id":52,"username":"233194","name":"Mihail","surname":"Naumov","groupName":"grup14"}, {"id":63,"username":"233050","name":"Gorazd","surname":"Tvanoski","groupName":null}]
```

Земени сите студенти со почеток на иднекс 23

## 2.1 . Користење на wget

wget <http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23>

```
PS C:\Users\User1> wget "http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23"
```

```
StatusCode      : 200
StatusDescription :
Content         : [{"id":49,"username":"231044","name":"Jovan","surname":"Velichkoski","groupName":"SIIS"}, {"id":17,"username":"233061","name":"Sara","surname":"Trpchevikj","groupName":null}, {"id":71,"username":"231094"...
RawContent      : HTTP/1.1 200
                  Transfer-Encoding: chunked
                  Connection: keep-alive
                  Content-Type: application/json
                  Date: Mon, 11 Nov 2024 22:58:24 GMT
                  Server: nginx/1.18.0 (Ubuntu)

Forms           : {}
Headers         : {[Transfer-Encoding, chunked], [Connection, keep-alive], [Content-Type, application/json], [Date, Mon, 11 Nov 2024 22:58:24 GMT]...}
Images          : {}
InputFields     : {}
Links           : {}
ParsedHtml      : mshtml.HTMLDocumentClass
RawContentLength : 12517
```

Статус код: 200

Content: Се прикажува дел од JSON одговорот со инфо за студентите

Server: nginx/1.18.0 (Ubuntu)

3a curl:

curl -I <http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23>

```
Microsoft Windows [Version 10.0.26100.2161]
(c) Microsoft Corporation. All rights reserved.

C:\Users\User1>curl -I "http://185.153.49.149/lab/api/kmib/students/filter?indexPrefix=23"
HTTP/1.1 200
Server: nginx/1.18.0 (Ubuntu)
Date: Mon, 11 Nov 2024 23:01:06 GMT
Content-Type: application/json
Connection: keep-alive
```

HTTP статус код: 200 OK

Server: nginx/1.18.0 (Ubuntu)

**Mon, 11 Nov 2024 23:01:06 GMT** - Време на извршување на барањето

Content-Type: application/json

Connection: keep-alive

3.

Co curl:

curl -H "Content-Type: application/json" -d '{"username": "233152", "name": "Stefan", "surname": "Vezenkoski"}' <http://185.153.49.149/lab/api/kmib/students/add>

```
C:\Users\User1>curl -X POST "http://185.153.49.149/lab/api/kmib/students/add" -H "Content-Type: application/json" -d '{"username": "233152", "name": "Stefan", "surname": "Vezenkoski"}'

C:\Users\User1>curl -i -X POST "http://185.153.49.149/lab/api/kmib/students/add" -H "Content-Type: application/json" -d '{"username": "233152", "name": "Stefan", "surname": "Vezenkoski"}'
HTTP/1.1 201
Server: nginx/1.18.0 (Ubuntu)
Date: Mon, 11 Nov 2024 23:18:23 GMT
Content-Length: 0
Connection: keep-alive
Location: http://185.153.49.149/lab//api/kmib/students/view/233152
```

Pretty-print ☐

```
{"id":229,"username":"233152","name":"Stefan","surname":"Vezenkoski","groupName":null}
```

<http://185.153.49.149/lab/api/kmib/students/view/233152>

wget е дизајниран да работи само со **GET** барања и не поддржува напредни HTTP методи како **POST**, **PUT** или **DELETE**.

4.

curl -v <http://185.153.49.149/lab/api/kmib/students/view/233152>

```
C:\Users\User1>curl -v http://185.153.49.149/lab/api/kmib/students/view/233152
* Trying 185.153.49.149:80...
* Connected to 185.153.49.149 (185.153.49.149) port 80
> GET /lab/api/kmib/students/view/233152 HTTP/1.1
> Host: 185.153.49.149
> User-Agent: curl/8.9.1
> Accept: */*
>
* Request completely sent off
< HTTP/1.1 200
< Server: nginx/1.18.0 (Ubuntu)
< Date: Mon, 11 Nov 2024 23:40:32 GMT
< Content-Type: application/json
< Transfer-Encoding: chunked
< Connection: keep-alive
<
{"id":229,"username":"233152","name":"Stefan","surname":"Vezenkoski","groupN
ame":null}* Connection #0 to host 185.153.49.149 left intact
```

wget -v <http://185.153.49.149/lab/api/kmib/students/view/233152>

```
C:\Users\User1>wget --server-response http://185.153.49.149/lab/api/kmib/students/v
iew/233152
--2024-11-12 01:02:21-- http://185.153.49.149/lab/api/kmib/students/view/233152
Connecting to 185.153.49.149:80... connected.
HTTP request sent, awaiting response...
HTTP/1.1 200
Server: nginx/1.18.0 (Ubuntu)
Date: Tue, 12 Nov 2024 00:02:19 GMT
Content-Type: application/json
Transfer-Encoding: chunked
Connection: keep-alive
Length: unspecified [application/json]
Saving to: '233152'

233152          [ <=>          ]      86  --.-KB/s    in 0s

2024-11-12 01:02:21 (1.43 MB/s) - '233152' saved [86]
```

5.

```
curl -v -X POST http://185.153.49.149/lab/api/kmib/login -H "Content-Type: application/x-www-form-urlencoded" -d "username=233152"
```

```
C:\Users\User1>curl -v -X POST http://185.153.49.149/lab/api/kmib/login -H "Content
-Type: application/x-www-form-urlencoded" -d "username=233152"
Note: Unnecessary use of -X or --request, POST is already inferred.
* Trying 185.153.49.149:80...
* Connected to 185.153.49.149 (185.153.49.149) port 80
> POST /lab/api/kmib/login HTTP/1.1
> Host: 185.153.49.149
> User-Agent: curl/8.9.1
> Accept: */*
> Content-Type: application/x-www-form-urlencoded
> Content-Length: 15
>
* upload completely sent off: 15 bytes
< HTTP/1.1 200
< Server: nginx/1.18.0 (Ubuntu)
< Date: Tue, 12 Nov 2024 00:06:59 GMT
< Content-Type: application/json
< Transfer-Encoding: chunked
< Connection: keep-alive
<
{"username":"233152","token":"NNfuevOlsh"}* Connection #0 to host 185.153.49.149 le
ft intact
```

Со користење на командата **curl** за логирање, добив успешен одговор со **HTTP статус код 200**. Ова значи дека барањето е успешно обработено од серверот

token: "**NNfuevOlsh**" кој треба да го зачувам и користам за авторизација.

6.

Со curl:

```
curl -v -X GET "http://185.153.49.149/lab/api/kmib/students/details/233152" -H "Authorization: Bearer NNfuevOlsh"
```

```
C:\Users\User1>curl -v -X GET "http://185.153.49.149/lab/api/kmib/students/details/233152" -H "Authorization: Bearer NNfuevOlsh"
Note: Unnecessary use of -X or --request, GET is already inferred.
* Trying 185.153.49.149:80...
* Connected to 185.153.49.149 (185.153.49.149) port 80
> GET /lab/api/kmib/students/details/233152 HTTP/1.1
> Host: 185.153.49.149
> User-Agent: curl/8.9.1
> Accept: */*
> Authorization: Bearer NNfuevOlsh
>
* Request completely sent off
< HTTP/1.1 500
< Server: nginx/1.18.0 (Ubuntu)
< Date: Tue, 12 Nov 2024 00:14:31 GMT
< Content-Type: application/json
< Transfer-Encoding: chunked
< Connection: keep-alive
<
{"timestamp":"2024-11-12T00:14:31.541+00:00","status":500,"error":"Internal Server Error","path":"/api/kmib/students/details/233152"}* Connection #0 to host 185.153.49.149 left intact
```

Co wget:

```
wget --header="Authorization: Bearer NNfuevOlsh" "http://185.153.49.149/lab/api/kmib/students/details/233152" -O response.json
```

(ova ne rabotese, probaj na faks)

7.

PATCH барање

```
curl -v -X PATCH "http://185.153.49.149/lab/api/kmib/students/modify?labGroupName=grupa14" -H "Authorization: Bearer NNfuevOlsh"
```

8.

**Co wget:**

**wget "http://185.153.49.149/lab/api/kmib/key/download" -O downloaded\_file**

**Co curl:**

**curl -O <http://185.153.49.149/lab/api/kmib/key/download>**

9.

```
curl -v -X POST "http://185.153.49.149/lab/api/kmib/key/verify" -H "Authorization: Bearer NNfuevOlsh" -F "file=@downloaded_file" -H "Content-Type: multipart/form-data"
```