

Лабораторна робота 5

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Посилання на проект <https://labs-net.onrender.com/index.html>

Реалізація реєстрації та входу

Реєстрація Юзера.

Auth

POST /api/Auth/register

Parameters

No parameters

Request body

```
{ "email": "maxtestreg@gmail.com", "password": "Maxtest123!", "firstName": "Max", "lastName": "Test" }
```

Responses

Curl

```
curl -X 'POST' \
  'https://labs-net.onrender.com/api/Auth/register' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{ "email": "maxtestreg@gmail.com", "password": "Maxtest123!", "firstName": "Max", "lastName": "Test" }'
```

Request URL

```
https://labs-net.onrender.com/api/Auth/register
```

Server response

Code Details

200

Response body

```
{ "message": "User registered successfully!" }
```

Response headers

```
alt-svc: h3=":443"; ma=86400
cf-cache-status: DYNAMIC
cf-ray: 9adfc8a0e0d7c2301-KBP
content-encoding: br
content-type: application/json; charset=utf-8
date: Sun, 14 Dec 2025 17:51:27 GMT
priority: u=1,i
rindr-id: 26f0f511-1e6e-4fbc
server: Kestrel
server-timing: cfExtPri
vary: Accept-Encoding
x-render-origin-server: Kestrel
```

Responses

Code Description Links

200 Success

Вхід по цим даним

POST /api/Auth/login

Parameters

No parameters

Request body

```
{
  "email": "maxtestreg@gmail.com",
  "password": "Maxtest123!"
}
```

Execute **Clear**

Responses

Curl

```
curl -X 'POST' \
  'https://labs-.net.onrender.com/api/Auth/login' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "email": "maxtestreg@gmail.com",
    "password": "Maxtest123!"
}'
```

Request URL

https://labs-.net.onrender.com/api/Auth/login

Server response

Code	Details						
200	<p>Response body</p> <pre>{ "token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJzdWIiOiIxMjYxNDcwNjQgIiwiY2lkIjoxNjMwMyYzktNDg5Ni05YmY4LWM3MmNjMjUyNzJnZCtsIm1kIjoiN2EwNjVmYjEtZGE0S00ZTNhLTg4MaYzZTNkYmbyZMkWYTg0LiuaHR0cDovLnpjaGVtYXMuOmJcm0zb2Z0LmNvb593cy8yMDA4LzA2L21kZW50aXR5L2NsYmItcy9yb2xlijoiVXNlciIsImV4cC16WTc2NTczODM2MCviaXNzIjoiU2V0dXBSRVNUiwiYXVKIjoiU2V0dXBSRVNUiNOcnpHiEO_3v9327K5PbjSwk5Mz_6FVicqrtTksaSpr2XADSRew" }</pre> <p>Download</p> <p>Response headers</p> <pre>alt-vc: h3-*;443*, ma=86400 cf-cache-status: DYNAMIC cf-ray: 9adfb8e606707fad-KBP content-encoding: br content-type: application/json; charset=utf-8 date: Sun, 14 Dec 2025 17:52:41 GMT priority: u=1,i rdr-id: 7ddc7c89-9593-49ce server: cloudflare server-timing: cfExtPri vary: Accept-Encoding x-render-origin-server: Kestrel</pre>						
200	<p>Responses</p> <table border="1"> <thead> <tr> <th>Code</th> <th>Description</th> <th>Links</th> </tr> </thead> <tbody> <tr> <td>200</td> <td>Success</td> <td>No links</td> </tr> </tbody> </table>	Code	Description	Links	200	Success	No links
Code	Description	Links					
200	Success	No links					

Отримали токен за допомогою якого можемо авторизуватись.

Available authorizations

X

Bearer (http, Bearer)

Authorized

Bearer {token}

Value: *****

Logout

Close

На даний момент увійшли з роллю User яка може тільки переглядати комп'ютери так само як і неавторизовані користувачі.

Responses

Code	Description	Links
200	Success	No links

Media type
 text/plain

Controls Accept header.

Example Value | Schema

```
[  
  {  
    "id": "1fa85f64-5717-4562-b3fc-2c963f66afa6",  
    "name": "string",  
    "ram": 0,  
    "storage": 0,  
    "cpu": {  
      "brand": "string",  
      "model": "string",  
      "cores": 0,  
      "threads": 0,  
      "frequency": 0,  
      "type": "string"  
    },  
    "gpu": {  
      "brand": "string",  
      "model": "string",  
      "vram": 0,  
      "memoryType": "string",  
      "coreClock": 0,  
      "type": "string"  
    },  
    "software": {  
      "os": "string",  
      "osVersion": "string",  
      "antivirus": "string"  
    },  
    "peripheries": [  
    ]  
  ]
```

Якщо захочемо додати комп'ютер або видалити – то цього не вдасться зробити через брак доступу

Request URL
 https://labs-net.onrender.com/api/Computers

Server response

Code	Details
403	<i>Undocumented</i> Error: response status is 403

Response headers

```
alt-svc: h3=":443"; ma=86400  
cf-cache-status: DYNAMIC  
cf-ray: 9ad93b30ef2e77b0-KBP  
content-length: 0  
date: Sun, 14 Dec 2025 17:56:16 GMT  
priority: u=1  
strict-uri: c0d157c-1abd-434f  
server: Cloudflare  
server-timing: cfExtPri  
x-render-origin-server: Kestrel
```

Responses

Code	Description	Links
200	Success	No links

Для того щоб виконувати повноцінні http запити, ввійдемо в аккаунт адміністратора

Responses

Curl

```
curl -X 'POST' \
  'https://labs-net.onrender.com/api/Auth/login' \
  -H 'accept: */*' \
  -H 'Content-Type: application/json' \
  -d '{
    "email": "admin@example.com",
    "password": "Admin123!"
}'
```

Request URL

<https://labs-net.onrender.com/api/Auth/login>

Server response

Code Details

200

Response body

```
{ "token": "eyJhbGciOiJIUzI1NiIsInR5cCIkV3J9.eyJzdWJlOiJhZG1pbkB1eGfcGx1lmNvbSisImp0aSI6ijFHYZj1MDASLtc0njAtNGE3M104Y2UxlT1h0YzZWj0MY305iImkijoinz1iYz0x2mEtMjdjNy00MWFhLN1iMTMtMj1j00WYt910hpKqgRCa11IRbvTqW5zM-Gub" } 
```

Download

Response headers

```
alt-svc: h3=":443"; ma=86400
cf-cache-status: DYNAMIC
cf-ray: 9ad96f2ae7f2d37-KBP
content-encoding: br
content-type: application/json; charset=utf-8
date: Sun, 10 Dec 2025 17:58:30 GMT
priority: u1,i
rdr-id: dd6d5d94-0de2-4df
server: cloudflare
server-timing: cfExtrPri
vary: Accept-Encoding
x-render-origin-server: Kestrel
```

Responses

Code Description

200

Success

Links

No links

Після входу можемо використовувати POST

Request URL

<https://labs-net.onrender.com/api/Computers>

Server response

Code Details

201

undocumented Response body

```
{
  "id": "5ae24780-545e-4b02-9991-ecd31dee13ae",
  "name": "Admin TEST PC",
  "ram": 0,
  "storage": 0,
  "cpu": {
    "brand": "string",
    "model": "string",
    "cores": 0,
    "threads": 0,
    "frequency": 0,
    "type": "string"
  },
  "gpu": {
    "brand": "string",
    "model": "string",
    "vram": 0,
    "memoryType": "string",
    "coreclock": 0,
    "type": "string"
  },
  "software": {
    "os": "string",
    "osVersion": "string",
    "antivirus": "string"
  },
  "peripheries": [
    {}
  ]
}
```

Download

Response headers

```
alt-svc: h3=":443"; ma=86400
cf-cache-status: DYNAMIC
cf-ray: 9ad97fd998d77a4-KBP
content-encoding: br
content-type: application/json; charset=utf-8
date: Sun, 10 Dec 2025 17:59:13 GMT
location: https://labs-net.onrender.com/api/Computers/5ae24780-545e-4b02-9991-ecd31dee13ae
priority: u1,i
rdr-id: e2ef0d09-62cb-4205
server: cloudflare
server-timing: cfExtrPri
vary: Accept-Encoding
x-render-origin-server: Kestrel
```

Responses

Code Description

200

Links

No links

Також DELETE який доступний тільки адміністратору. Менеджер може тільки додавати нові да редагувати.

Name Description

id <small>* required</small>	5ae24780-545e-4b02-9991-ecd31dee13ae
(path)	

Execute Clear

Responses

Curl

```
curl -X 'DELETE' \
  'https://labs-net.onrender.com/api/Computers/5ae24780-545e-4b02-9991-ecd31dee13ae' \
  -H 'Accept: */*' \
  -H 'Authorization: Bearer eyJhbGciOiJIUzI1NiIsInR5cCIkIkpXVCJ9.eyJzdWIiOiJhZG1pbkBleGFtcGxIImNvbSIsImp0aSI6IjFhYjZiMDASLTc0NjAtNGE3Mj04Y2UxLTihODYzMj0WY30SiSmIkIjoINzIiYzUxZmEtMjdjNy00MhFhLW1MTMj150W'
  ↵
```

Request URL

```
https://labs-net.onrender.com/api/Computers/5ae24780-545e-4b02-9991-ecd31dee13ae
```

Server response

Code	Details
204	undocumented
	Response headers
	<pre>alt-svc: h3=":443"; ma=86400 cf-cache-status: DYNAMIC cf-ray: 9ad9909a6f077ad-KBP date: Sun, 14 Dec 2025 18:00:28 GMT priorities: 0 rnf-id: z2d43f70-b05e-40a7 server: cloudflare server-timing: cfExtPri x-render-origin-server: Kestrel</pre>

Responses

Code	Description	Links
200	Success	No links

Розгорнули проект на сервісі render.com

The screenshot shows the Render.com interface. On the left, there's a sidebar with 'My workspace' dropdown, environment selection, and various project settings like 'Events' (which is selected), 'Settings', 'Monitor' (Logs and Metrics), and 'Manage' (Environment, Shell, Scaling, Previews, Disk, Jobs, Changelog, Invite a friend, Contact support, and Render Status). The main area shows a service ID: 'Service ID: srv-d4vdmuu2ga739ctflg' and a link to 'https://labs-net.onrender.com'. A message at the top says, 'Your free instance will spin down with inactivity, which can delay requests by 50 seconds or more.' Below it, a log entry from December 14, 2025, at 7:36 PM shows a merge pull request being processed. The log details several database commands:

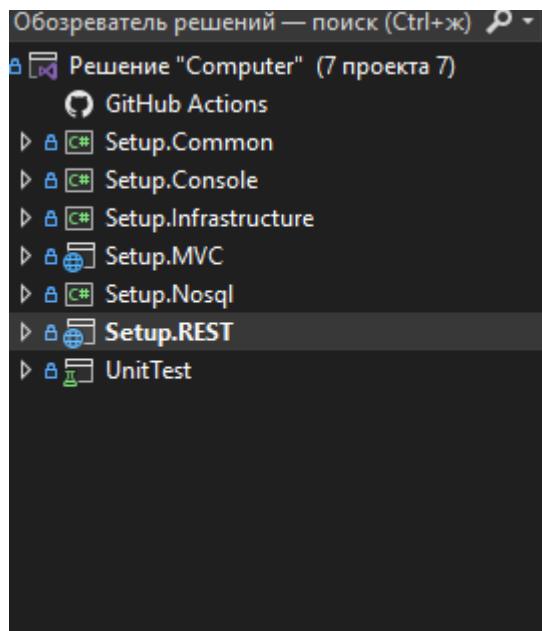
```

Dec 14 08:06:28 PM ① info: Microsoft.EntityFrameworkCore.Database.Command[20101]
Dec 14 08:06:28 PM ① Executed DbCommand (0ms) [Parameters={@p0='?' (DbType = Guid)}, CommandType='Text', CommandTimeout='30']
Dec 14 08:06:28 PM ① DELETE FROM "Computers"
Dec 14 08:06:28 PM ① WHERE "Id" = @p0
Dec 14 08:06:28 PM ① RETURNING 1;
Dec 14 08:06:28 PM ① info: Microsoft.EntityFrameworkCore.Database.Command[20101]
Dec 14 08:06:28 PM ① Executed DbCommand (0ms) [Parameters={@p0='?' (DbType = Guid)}, CommandType='Text', CommandTimeout='30']
Dec 14 08:06:28 PM ① DELETE FROM "Hardware"
Dec 14 08:06:28 PM ① WHERE "Id" = @p0
Dec 14 08:06:28 PM ① RETURNING 1;
Dec 14 08:06:28 PM ① info: Microsoft.EntityFrameworkCore.Database.Command[20101]
Dec 14 08:06:28 PM ① Executed DbCommand (0ms) [Parameters={@p0='?' (DbType = Guid)}, CommandType='Text', CommandTimeout='30']
Dec 14 08:06:28 PM ① DELETE FROM "Hardware"
Dec 14 08:06:28 PM ① WHERE "Id" = @p0
Dec 14 08:06:28 PM ① RETURNING 1;

```

At the bottom of the log area, there's a note: 'Need better ways to work with logs? Try the Render CLI, Render MCP Server, or set up a log stream integration.'

Інфраструктура проекту –



Інфраструктура проекту REST

The image displays two side-by-side views of the 'Setup.REST' project's file structure in the Solution Explorer:

Left View (Top Level):

- Connected Services
- Properties
- Зависимости
- Controllers** (Contains: AuthController.cs, ComputerController.cs, CreateController.cs, WeatherForecastController.cs)
- Models** (Contains: CreateComputerDto.cs, LegacyComputerModel.cs, UserModelDto.cs)
- appsettings.json
- ComputerService.cs

Right View (Models Folder):

- CreateComputerDto.cs
- LegacyComputerModel.cs
- UserModelDto.cs
- appsettings.json
- ComputerService.cs
 - Dockerfile
- Program.cs
 - Setup.REST.http
- WeatherForecast.cs
- UnitTest

Посилання на проект github
https://github.com/MaKs4788/NUPP_NET_2025_402_TN_Storozhuk_Lab