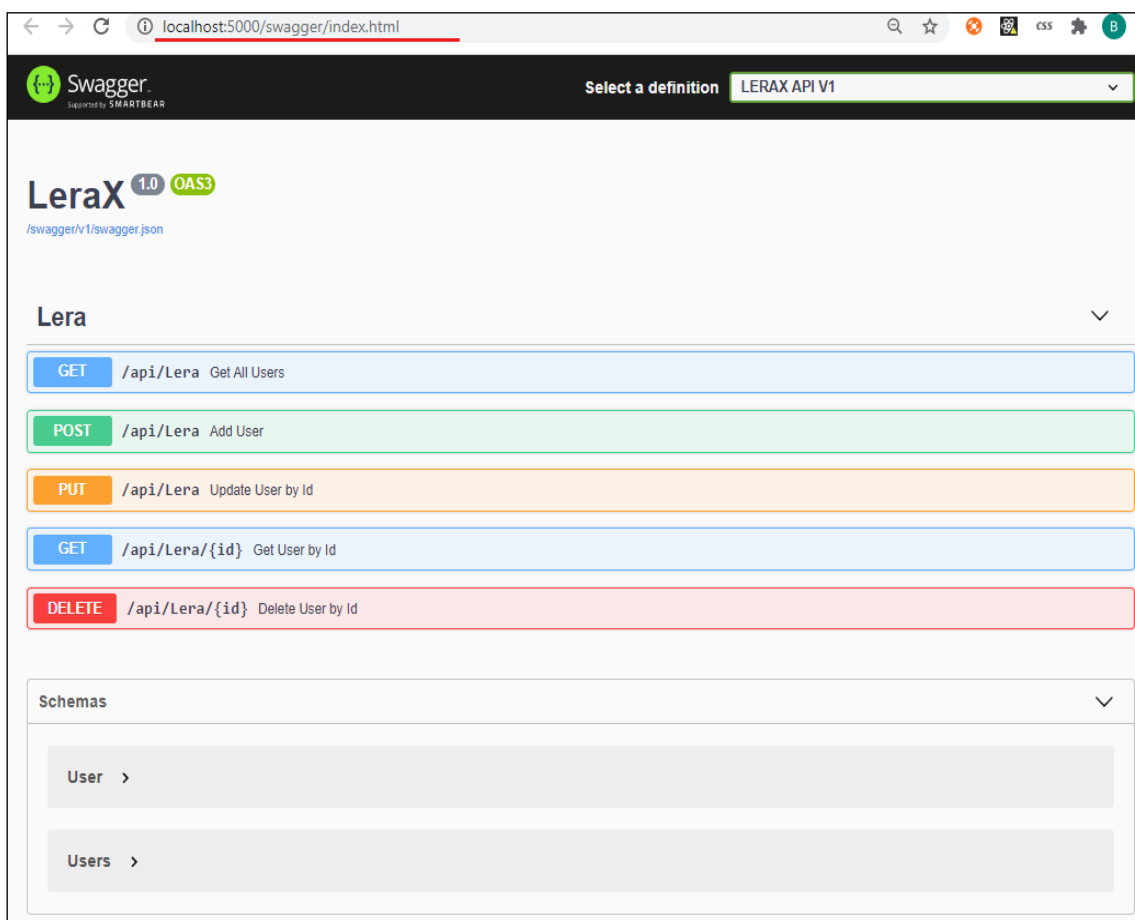


ASP.NET CORE/REST/SWAGGER

Задание 1

1. Разработайте ASP.NET Core MVC приложение со встроенным сервером (автономное) и реализующее следующий REST-интерфейс.



```

User ▾ {
  Id*                               integer($int32)
                                   example: 101

                                   Users Id

  lastName                         string
                                   nullable: true
                                   example: Adam Smith

                                   Users Surname

  firstName                       string
                                   nullable: true
                                   example: Adam

                                   Users Name

  email*                          string($email)
                                   example: xxx@yyy.com

                                   Users e-mail

  password*                       string
                                   example: P@$$w0rd

                                   password

  status*                         string
                                   example: active

                                   active/passive

  role*                           string
                                   example: customer

                                   admin/customer/HR
}

```

```

Users ▾ {
  userslist

  ▾ [
    nullable: true
    Users list

    User ▾ {
      Id*                               integer($int32)
                                   example: 101

                                   Users Id

      lastName                         string
                                   nullable: true
                                   example: Adam Smith

                                   Users Surname

      firstName                       string
                                   nullable: true
                                   example: Adam

                                   Users Name

      email*                          string($email)
                                   example: xxx@yyy.com

                                   Users e-mail

      password*                       string
                                   example: P@$$w0rd

                                   password

      status*                         string
                                   example: active

                                   active/passive

      role*                           string
                                   example: customer

                                   admin/customer/HR

    }
  ]
}

```

GET

/api/Lera

Get All Users

create 24.07.2020

Parameters

Try it out

No parameters

Responses

Code	Description	Links
200	Success	No links

Media type

application/json

Controls Accept header.

Example Value | Schema

```
{
  "userslist": [
    {
      "Id": 101,
      "lastName": "Adam Smith",
      "firstName": "Adam",
      "email": "xxx@yyy.com",
      "password": "P@ssw@rd",
      "status": "active",
      "role": "customer"
    }
  ]
}
```

POST

/api/Lera

Add User

create 24.07.2020

Parameters

Try it out

No parameters

Request body

application/json-patch+json

Example Value | Schema

```
{
  "Id": 101,
  "lastName": "Adam Smith",
  "firstName": "Adam",
  "email": "xxx@yyy.com",
  "password": "P@ssw@rd",
  "status": "active",
  "role": "customer"
}
```

Responses

Code	Description	Links
200	User updated	No links

Media type

text/plain

Controls Accept header.

Example Value | Schema

```
{
  "Id": 101,
  "lastName": "Adam Smith",
  "firstName": "Adam",
  "email": "xxx@yyy.com",
  "password": "P@ssw@rd",
  "status": "active",
  "role": "customer"
}
```

400	User not added	No links
-----	----------------	----------

PUT

/api/Lera Update User by Id

create 24.07.2020

Parameters

Try it out

No parameters

Request body

application/json-patch+json

Example Value | Schema

```
{
  "Id": 101,
  "lastName": "Adam Smith",
  "firstName": "Adam",
  "email": "xxx@yyy.com",
  "password": "P@$$w0rd",
  "status": "active",
  "role": "customer"
}
```

Responses

Code	Description	Links
200	User updated	No links
	<div>Media type</div> <div>text/plain</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div> <pre>{ "Id": 101, "lastName": "Adam Smith", "firstName": "Adam", "email": "xxx@yyy.com", "password": "P@\$\$w0rd", "status": "active", "role": "customer" }</pre> </div>	
400	User not updated	No links

GET

/api/Lera/{id} Get User by Id

create 24.07.2020

Parameters

Try it out

Name	Description
id <small>* required</small>	The User id
integer(\$int32) (path)	

101

Responses

Code	Description	Links
200	User found	No links
	<div>Media type</div> <div>text/plain</div> <div>Controls Accept header.</div> <div>Example Value Schema</div> <div> <pre>{ "Id": 101, "lastName": "Adam Smith", "firstName": "Adam", "email": "xxx@yyy.com", "password": "P@\$\$w0rd", "status": "active", "role": "customer" }</pre> </div>	
404	User not found	No links

DELETE /api/Lera/{id} Delete User by Id

create 24.07.2020

Parameters Try it out

Name	Description
id * required integer(\$int32) (path)	The User id

101

Responses

Code	Description	Links
200	User deleted	No links
Media type text/plain		
Controls Accept header:		
Example Value Schema		
<pre>{ "Id": 101, "lastName": "Adam Smith", "firstName": "Adam", "email": "xxx@yyy.com", "password": "qwerty", "status": "active", "role": "customer" }</pre>		
404	User not found	No links

2. Для хранения данных используйте MS SQL Server.
3. Доступ к данным реализовать с помощью ORM-репозитория.
4. Подключение ORM-репозитория осуществите с помощью встроенного механизма Inject.
5. Проверку работоспособности приложения выполните с помощью POSTMAN.

Задание 2

6. Для приложения, разработанного в задании 1 разработайте online Swagger-документацию.
7. Продемонстрируйте работоспособность web-интерфейса Swagger-документации.
8. Продемонстрируйте работоспособность функции **Try it out**.

Задание 3

9. Ответьте на следующие вопросы:
10. Что такое REST?
11. Что такое Open API, Swagger?
12. Поясните назначение xml-файла, который генерируется Swagger.