Task:

1) Create and design DB, using SQL language that contains:

- 1) users table -> username, id, second name, email, phone number, address;
- 2) position of user table -> user can have a high or low position (for example manager or subordinate)
- Tables should be connected

2) Create API using C# language, you can install Microsoft Visual Studio Community. It is free

- Get the list of users
- Post new User; - add new user;
- Get the position of the user by userId;

3) Optional Add Swagger
https://code.msdn.microsoft.com/Swagger-integration-in-da408b29

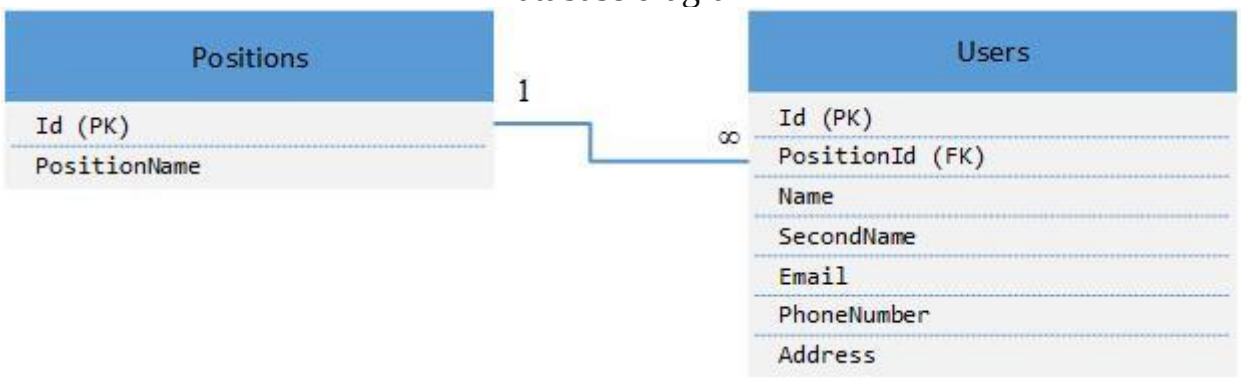
4) add 3 unit tests, basic;

Project was created in monolithic architecture.

1. Create and design DB, using SQL language.

I used Code First to existing database (I didn't use automatically creating DB).

Database diagram



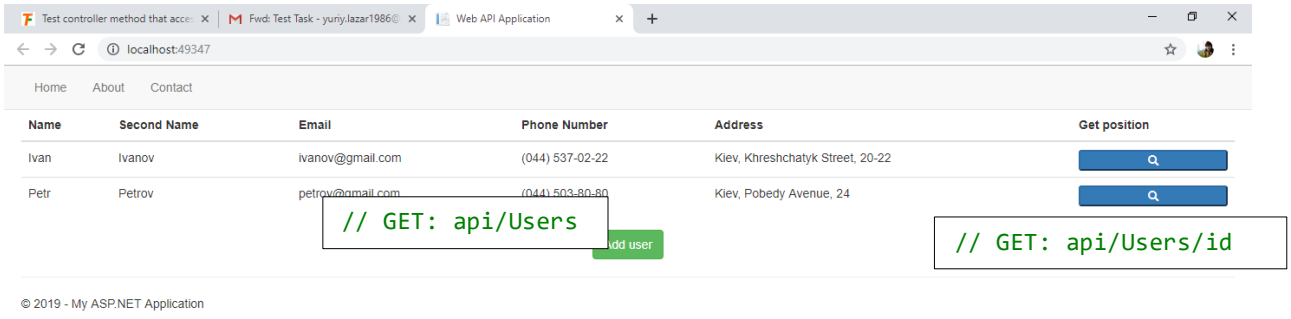

```
CREATE TABLE Positions
(
	Id INT IDENTITY PRIMARY KEY,
	PositionName NVARCHAR(50) NOT NULL,
)

GO

CREATE TABLE Users
(
	Id INT IDENTITY PRIMARY KEY,
	PositionId INT NOT NULL FOREIGN KEY REFERENCES Positions(Id) ON DELETE CASCADE,
	Name NVARCHAR(20) NOT NULL,
	SecondName NVARCHAR(20) NOT NULL,
	Email VARCHAR(50) NOT NULL,
	PhoneNumber VARCHAR(20) NOT NULL,
	Address NVARCHAR(100) NOT NULL
)

GO
```

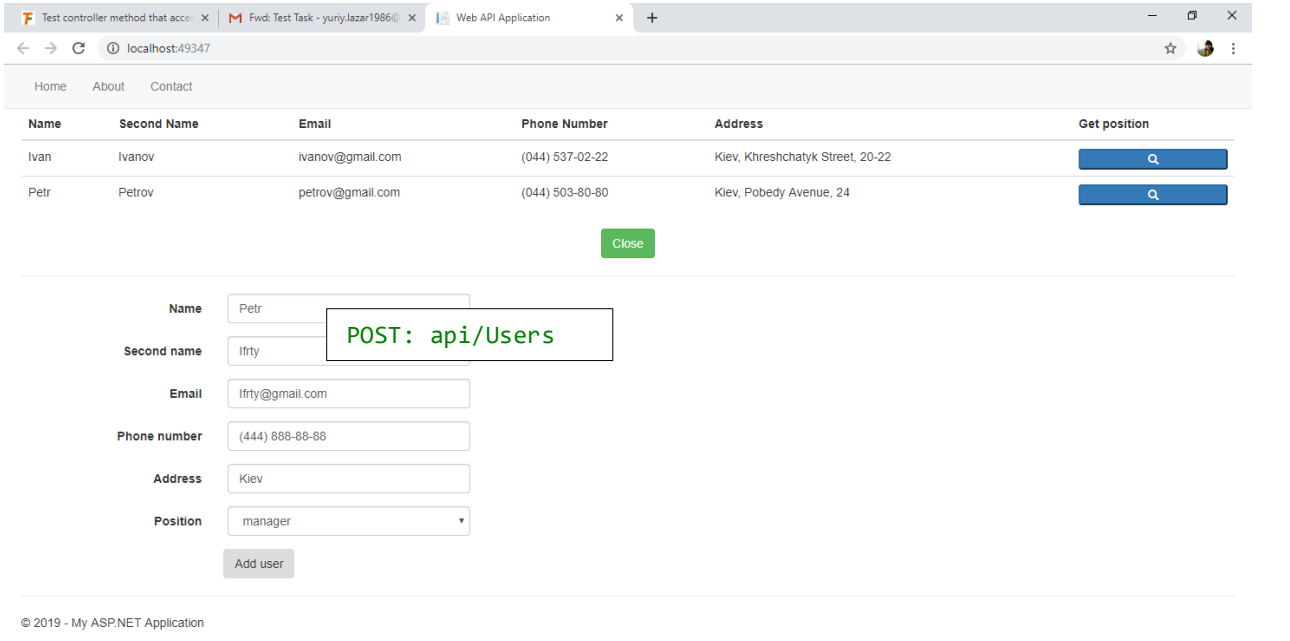
```
INSERT INTO Positions(PositionName)
VALUES
('manager'),
('subordinate')

GO

INSERT INTO Users(PositionId,Name,SecondName,Email,PhoneNumber,Address)
VALUES
(1,'Ivan','Ivanov','ivanov@gmail.com','(044) 537-02-22', 'Kiev, Khreshchatyk Street, 20-22'),
(2,'Petr','Petrov','petrov@gmail.com','(044) 503-80-80', 'Kiev, Pobedy Avenue, 24')
```

2. Create API using C# language, you can install Microsoft Visual Studio Community.

- Get the list of users
- Post new User; - add new user;
- Get the position of the user by userId;

I add UsersController and add this methods. Data validation is performed on client and server side.





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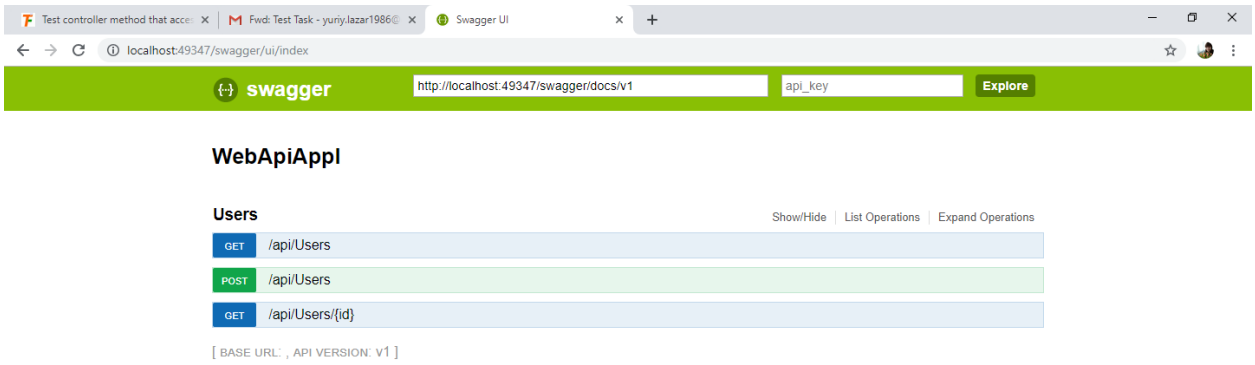

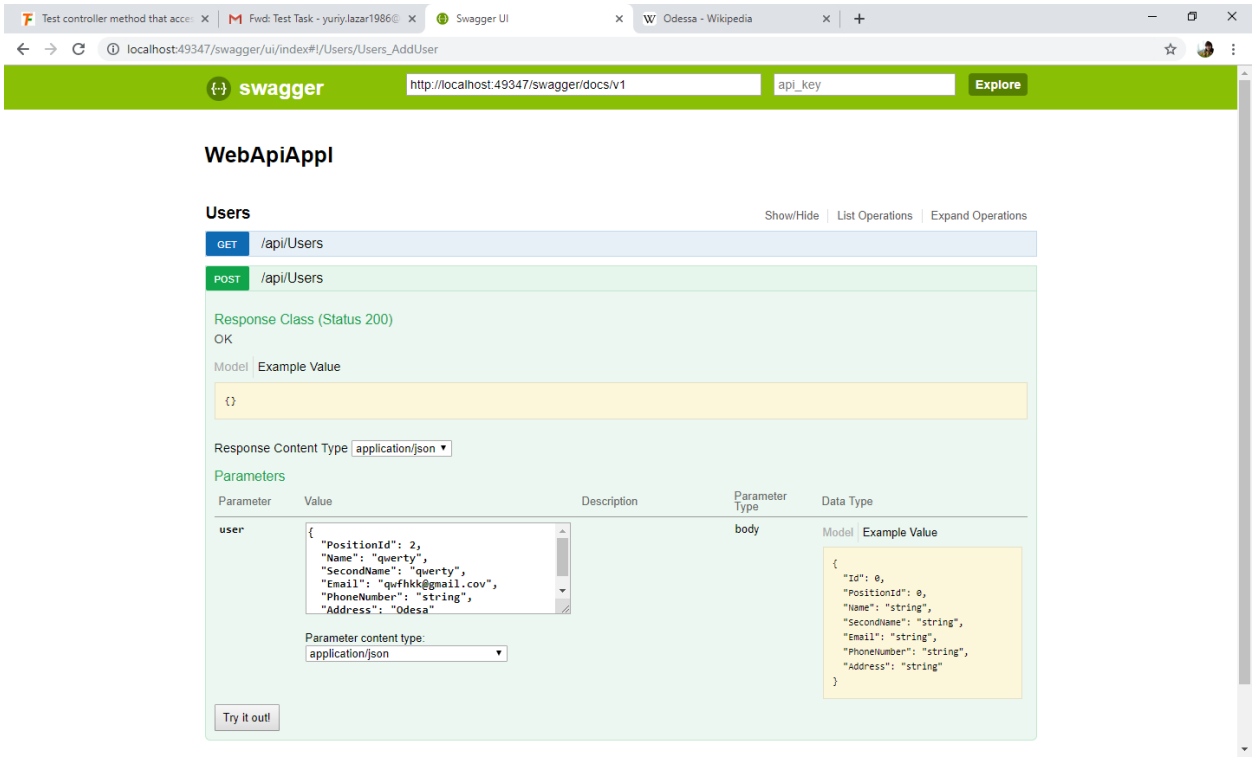

4) add 3 unit tests, basic;