Tutorial 5

In the course of these exercises, a simple REST API application needs to be developed, which enables operations allowing for the modification of data in an SQL Server database.

Along with the task, a script is attached that allows for the creation of an Animals table and filling it with data. Communication with the database should occur through the SqlConnection/SqlCommand classes.

Animal	
IdAnimal	int PK
Name	nvarchar(200)
Description	nvarchar(200) N
Category	nvarchar(200)
Area	nvarchar(200)

Figure 1 - klucz główny jest automatycznie generowany (IDENTITY)

Server data: db-mssql16.pjwstk.edu.pl

- 1. Add an Animals controller.
- 2. Add a method/endpoint that allows obtaining a list of animals. The endpoint should respond to an HTTP GET request sent to /api/animals
 - 1. The endpoint should allow for a query string parameter that specifies sorting. The parameter is named orderBy. Example: api/animals?orderBy=name
 - 2. The parameter accepts the following values: name, description, category, area. Sorting can only be done by one column. The sorting is always in the "ascending" direction.
 - 3. Default sorting (when no parameter is passed in the query string) should be by the name column.
- 3. Add a method/endpoint allowing for the addition of a new animal.
 - 1. The method should respond to an HTTP POST request sent to api/animals

- 2. The method should accept data in JSON format.
- 4. Add a method/endpoint allowing for the update of data for a specific animal.
 - 1. The method should respond to an HTTP PUT request sent to /api/animals/{idAnimal}
 - 2. The method accepts data in JSON format.
 - 3. It is assumed that primary keys do not change (IdAnimal column).
- 5. Add a method/endpoint for deleting data about a specific animal.
 - 1. The method should respond to an HTTP DELETE request sent to /api/animals/{idAnimal}
- 6. Remember about correct HTTP codes.
- 7. Try to use the built-in Dependency Injection mechanism.
- 8. Ensure data validation.
- 9. Pay attention to naming and style.