Introduction to .NET – lab no. 5

Way of working: 2 persons.

Summary:

Keywords: DbContext, EF Core, Repository pattern, Migrations, Loading patterns

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Prerequisites

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1. Check the extra info's.

Requirements

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1. Create a new .NET Core class library
   a. Make the design of a new class City and expose the following properties:
      Id
      Name mandatory, min 50 and max 100
      Description mandatory max 150
      Latitude
      Longitude
   b. Make the design of new class Poi and expose the following properties:
      Id
      Name mandatory, min 50 and max 100
      Description mandatory max 150
   c. Create a ApplicationContext class derived from DbContext (add the required libraries)
      i. Add City class
      ii. Add Poi class
   d. Create 1-to-Many relation between City and Poi
   e. Check Unit Of Work pattern
   f. Combining UoW pattern with Repository pattern expose and test the following behaviour
      i. CreateCity
      ii. RemoveCity by its id
      iii. AddPoi
      iv. RemovePoi by its id

Extra info's

Hints

```
protected override void OnConfiguring(DbContextOptionsBuilder optionsBuilder)
    {
```

```
        if (!optionsBuilder.IsConfigured)
        {

optionsBuilder.UseSqlServer(@"Server=(localdb)\mssqllocaldb;Database=Yo
urDatabaseName;Trusted_Connection=True;");
        }
}
```

Note:

1. All exercises are mandatory.
2. Encapsulation is mandatory.
3. Your samples should expose all the loading patterns for EF.
4. You will receive your points at the end of the lab.
5. Working time: 70 minutes.