Day 20 - Angular & Asp in 21 days Handouts

⊘ Status

Day 20: Entity Framework SQL Provider

To use SQL Server provider add the `Microsoft.EntityFrameworkCore.SqlServer` to the project.
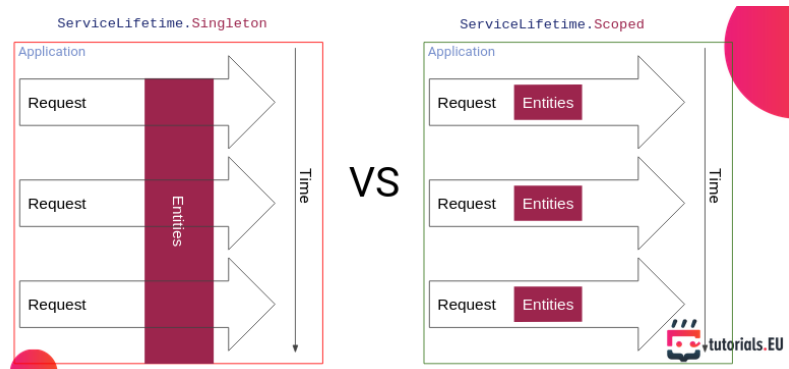
After installing the SQL Server, configure the Entity Framework to connect to SQL Server.

```
builder.Services.AddDbContext<Entities>(options =>
                 options.UseSqlServer(builder.Configuration.GetConnectionString("Sales")));
```

Store the connection string to the database in the `appsettings.json` file of your web application like this:

```
{
  "ConnectionStrings": {
    "Sales" : "Data Source=<db IP address>,<database port>;Database=<Database Name>;User id=<db user id>;Password=<db password>"
  },
  ...
}
```

- The `AddDbContext<T>` method automatically adds the `Entities` class to the `ServiceCollection` with the scoped lifetime.

- It creates a new instance of the `DbContext` for each request that requires it.

- A connection string is information the application needs to connect to the database.

- You can tell EF to create the database if it is not exist:

```
entities.Database.EnsureCreated();
```