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NuGet Package

Text

Description automatically generated

Special Keywords:

**IConfiguration**

This package contains **the Interfaces and functionality for retrieving config values/sections**. Loading from different sources requires different packages which actually do the work of loading from a Configuration Source. For example loading from a JSON file requires the package [Microsoft.Extensions.Configuration.Json](https://www.nuget.org/packages/Microsoft.Extensions.Configuration.Json) and from an XML file requires [Microsoft.Extensions.Configuration.Xml](https://www.nuget.org/packages/Microsoft.Extensions.Configuration.Xml).

If you wanted to get configuration from a SQL Database or HTTP endpoint - then you can write your own and plug them in.

<https://www.ryansouthgate.com/2016/03/23/iconfiguration-in-netcore/>

IServiceCollection

IServiceCollection is the collection of the service descriptors. We can register our services in this collection with different lifestyles (Transient, scoped, singleton)

IServiceProvider is the simple built-in container that is included in ASP.NET Core that supports constructor injection by default. We are getting regisered services with using service provider.

<https://volosoft.com/blog/ASP.NET-Core-Dependency-Injection>

Database Configuration

Default SQL Server name

Graphical user interface, application

Description automatically generated

Create a new SQL Server name(reference <https://www.youtube.com/watch?v=IGig-Fo-CoY>)

Create Database and Table

Graphical user interface, text

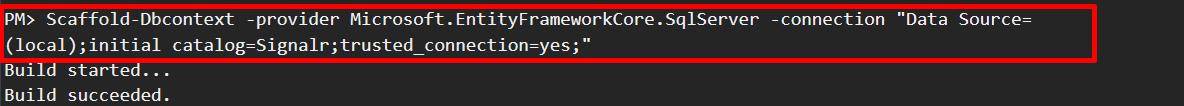
Description automatically generated

Entity Framework Core

Main reference: <https://www.youtube.com/watch?v=OrbKzif7UHc>

Scaffold-Dbcontext

-it helps generate the code based on your database table.



<https://www.youtube.com/watch?v=nzeHAFY0WX4>

Ensure appsettings.json contains following details

Text

Description automatically generated

Data Source = Server instance

Initial Catalog = Database Name

Trusted Connection = Using Window Credential if is “yes”(Similar to Integrated Security)

…

Once the class is generated from Scaffold-Dbcontext, place the “database” class into a new folder named as EFModels.

Graphical user interface, application

Description automatically generated

Update the directories path in the namespace

A screenshot of a computer

Description automatically generated with medium confidence

Program from outside the namespace can use it from importing the library

Text

Description automatically generated

Hierarchy in c# Namespace->library->class->function