**EF Core Simple Template Project**

Version**: 1.3**

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My (Dariush Tasdighi) Standards Notations:

* (Solution Folder)
* [Physical Folder]
* [[Class Library / Project]]

In Visual Studio

Create a new project

Blank Solution

In [EF Core Simple Template Project] Folder:

Create Solution: MySolution

In Windows Explorer:

In [EF Core Simple Template Project] Folder:

Create Folders:

[src]

[docs]

In Visual Studio:

In MySolution:

Add new solution folders:

(src)

(docs)

In Visual Studio:

In MySolution:

In (src) Solution Folder and [src] Physical Folder:

Create Projects:

**{Windows Forms App} [[Client]]**

Dtat

Resources

Domain

Persistence

{Class Library} [[Domain]]

Dtat

Resources

{Class Library} [[Dtat]]

**{Class Library} [[Dtat.Windows.Forms]]**

Dtat

Resources

{Class Library} [[Persistence]]

Domain

{Class Library} [[Resources]]

**Note:** Delete all Class1.cs files!

**Note:** Right click on Client Project 🡪 Set as Startup Project

**Note:** Update .csproj of all projects!

[[Client]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<OutputType>WinExe</OutputType>**

**<UseWindowsForms>true</UseWindowsForms>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**<TargetFramework>net8.0-windows</TargetFramework>**

**</PropertyGroup>**

**<ItemGroup>**

**<ProjectReference Include="..\Dtat\Dtat.csproj" />**

**<ProjectReference Include="..\Domain\Domain.csproj" />**

**<ProjectReference Include="..\Resources\Resources.csproj" />**

**<ProjectReference Include="..\Persistence\Persistence.csproj" />**

**<ProjectReference Include="..\Dtat.Windows.Forms\Dtat.Windows.Forms.csproj" />**

**</ItemGroup>**

**</Project>**

[[Domain]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<TargetFramework>net8.0</TargetFramework>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**</PropertyGroup>**

**<ItemGroup>**

**<ProjectReference Include="..\Dtat\Dtat.csproj" />**

**<ProjectReference Include="..\Resources\Resources.csproj" />**

**</ItemGroup>**

**</Project>**

[[Dtat]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<TargetFramework>net8.0</TargetFramework>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**</PropertyGroup>**

**</Project>**

[[Dtat.Windows.Forms]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<UseWindowsForms>true</UseWindowsForms>**

**<TargetFramework>net8.0</TargetFramework>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**<TargetFramework>net8.0-windows</TargetFramework>**

**</PropertyGroup>**

**<ItemGroup>**

**<ProjectReference Include="..\Dtat\Dtat.csproj" />**

**<ProjectReference Include="..\Resources\Resources.csproj" />**

**</ItemGroup>**

**</Project>**

[[Persistence]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<TargetFramework>net8.0</TargetFramework>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**</PropertyGroup>**

**<ItemGroup>**

**<ProjectReference Include="..\Domain\Domain.csproj" />**

**</ItemGroup>**

**<ItemGroup>**

**<PackageReference Include="Microsoft.EntityFrameworkCore.SqlServer" Version="8.0.3" />**

**</ItemGroup>**

**</Project>**

[[Resources]]

**<Project Sdk="Microsoft.NET.Sdk">**

**<PropertyGroup>**

**<Nullable>enable</Nullable>**

**<TargetFramework>net8.0</TargetFramework>**

**<!--<ImplicitUsings>enable</ImplicitUsings>-->**

**</PropertyGroup>**

**</Project>**

[[Client]]

Just Fix Files:

program.cs

Form1 🡪 MainForm.cs

[[Domain]]

Create Folder: [Seed**w**ork]

Create Folder: [Features]

In [Features] Folder:

Create Folder: [Identity]

In [Identity] Folder:

Create Folder: [Users] 🡪 **Aggregate**

In [Users] Folder:

Create Folder: [Enums] 🡪 **Not Enumerations**

In [Seedwork] Folder:

Create File: Entity.cs 🡪 **Should be Abstract Class!**

In [Enums] Folder:

Create File: Role.cs 🡪 **Using enumerations in EF Core!**

In [Users] Folder:

Create File: User.cs 🡪 **Aggregate Root**

[[Dtat]]

Some Dariush Tasdighi Libraries!

[[Dtat.Windows.Forms]]

Some Dariush Tasdighi Libraries! **JUST** for Windows Forms Applications!

[[Persistence]] 🡪 **In bigger applications, it should be in Infrastructure solution folder!**

Create Folder: [Features]

In [Features] Folder:

Create Folder: [Identity]

In [Identity] Folder:

Create File: UserConfiguration.cs 🡪

**Should be internal class!**

**Using HasData() for Seed Data!**

Add File: ApplicationDbContext.cs 🡪 **Set your favorite ConnectionString!**

[[Resources]]

Create File: DataDictionary.resx 🡪 **Make it public (Access Modifier)!**

[[Client]]

In MainForm.cs:

Inherit MainForm from BaseForm

Make MainForm\_Load() function async and write below code:

**try**

**{**

**using var applicationDbContext = new ApplicationDbContext();**

**var hasAnyUser =**

**await**

**applicationDbContext.Users.AnyAsync();**

**if (hasAnyUser)**

**{**

**MessageBox.ShowInformation**

**(message: "Everything is all right!");**

**}**

**else**

**{**

**MessageBox.ShowError**

**(message: "Something wrong!");**

**}**

**}**

**catch (Exception ex)**

**{**

**MessageBox.ShowError(message: ex.Message);**

**}**

**Run application and enjoy it…**