Table of Contents

[Add Extensions / packages 2](#_Toc106926726)

[Creating ConnectionString 2](#_Toc106926727)

[Entities 2](#_Toc106926728)

[DBContext Class 2](#_Toc106926729)

[Add /DB/DataContext to Services 2](#_Toc106926730)

[Migrations and Database Update 2](#_Toc106926731)

[Migrations 2](#_Toc106926732)

[Database Update 3](#_Toc106926733)

[Completely remove all migrations and start all over again 3](#_Toc106926734)

[Viewing the Database 3](#_Toc106926735)

[Add User dummy data using Sqlite explorer 3](#_Toc106926736)

# Add Extensions / packages

check “0001 Project - Basic Info - Setup.docx”, check section Adding Packages

# Creating ConnectionString

Go to appsettings.Development.json and add the Sqllite connection there

  "ConnectionStrings": {

    "DefaultConnection": " Data source=Core/DB/MySocialConnect.db"

  }

# Entities

Create entities in MSC.Api/Core/Entities/AppUser.cs

1. AppUser: It will have two properties, Id (int) and UserName (string)

# DBContext Class

Create a new /DB/DataContext.cs file. It will inherit from the DbContext.

Add DBSet for following entities

1. AppUser entity which will pull from Users.

# Add /DB/DataContext to Services

Go to Programs.cs and add the service.

//CUSTOM:Start

/\*

Check:

https://stackoverflow.com/questions/69722872/asp-net-core-6-how-to-access-configuration-during-startup

https://stackoverflow.com/questions/70865207/net-6-stable-iconfiguration-setup-in-program-cs

\*/

ConfigurationManager configuration = builder.Configuration; // allows both to access and to set up the config

builder.Services.AddDbContext<DataContext>(options => {

    options.UseSqlite(configuration.GetConnectionString("DefaultConnection"));

});

//CUSTOM:End

# Migrations and Database Update

## Migrations

* dotnet ef migrations add InitialCreate -o Core/DB/Migrations
* dotnet ef migrations remove

## Database Update

After migrations update the database

* dotnet ef database update

## Completely remove all migrations and start all over again

* dotnet ef database update 0
* dotnet ef migrations remove

# Viewing the Database

SQLite extension is already installed. Click CTRL+SHIFT+P to open sqlite explorer. Expand it under the Explorer to view

Text

Description automatically generated

# Add User dummy data using Sqlite explorer

Right click on Users in sqlite explorer and select “new query select”. Add following

INSERT INTO Users (Id, UserName) VALUES (1, "Bob");

INSERT INTO Users (Id, UserName) VALUES (2, "Tom");

INSERT INTO Users (Id, UserName) VALUES (3, "Jane");

Then highlight the line, right click and click Run Selected Query.

Right click Users and click Show Table. You should see the rows inserted.