**Setting up Entity Framework ASP.Net Core 2.X Web Application**

1. Right click on Solution 🡪 add 🡪 New Project 🡪 Class Library(.New Core) 🡪 Ok (this will contain our Data)
2. Rename class example name: SomeNameContext
3. Make class inherit from DbContext
4. Add A constructor, example

public SomeNameContext (DbContextOptions< SomeNameContext > options) : base(options)

{

}

1. Right click on Solution 🡪 add 🡪 New Project 🡪 Class Library(.New Core) 🡪 Ok (This will contain our model)
2. Rename class example name: Person
3. Add To Person class:

public class Person

{

public int Id { get; set; }

public string FirstName { get; set; }

public string LastName { get; set; }

}

1. Add to \_\_\_\_Context.CS

public DbSet<Person> People { get; set; }

1. In package manager run cmd “add-migration “name”” then run cmd “update-database”
2. Right click on Data project 🡪 Manage Nuget Packages 🡪 Browse 🡪 Search for and install “Microsoft.EntityFrameworkCore” and “Microsoft.EntityFrameworkCore.SqlServer”
3. Go to appsettings.json and add

"ConnectionStrings": {

"DefaultConnection":"Server=(localdb)\\mssqllocaldb;Database=WebApp2;ConnectRetryCount=0;Trusted\_Connection=True;MultipleActiveResultSets=true"

},

Where “WebApp2” is, you can change the name to whatever you would like your database to be named. Added a connection string to the appsettings which makes it so we don’t need to “hardcode” it in our application. It also allows us to set up multiple database connection strings in the future.

1. Got to Startup.CS to the ConfigurationServices function and add:

services.AddDbContext<WebApplication2Context>(options =>

{

options.UseSqlServer(Configuration.GetConnectionString("DefaultConnection"));

});

At the bottom of the function. This will set the connection string on startup for our context to the connectionstring we just established in the appsettings.json file

In other words..

This will registers/associates our application context with the database.

1. Click on “Package Manager Console” at bottom of screen. You may have to search for this in quicklaunch
2. Select data as our default project
3. Type add-migration InitialCreate and press enter

* This will create the database and an upscript/downscript. These will be empty if you haven’t added or made any changes to the model