How to Connect to a SQL Server with MVC

Step 1: Add a connection in appsettings.json

* Add the following code

“ConnectionStrings”: {

“DefaultConnection”: “Server=SERVERNAME;Database=DATABASENAME; Trusted\_Connection=True;MultileActiveResultSets=True”

}

Step 2: Make sure the proper NuGet packages are installed

* Microsoft.EntityFrameworkCore
* Microsoft.EntityFrameworkCore.SqlServer
* Microsoft.EntityFrameworkCore.tools

Step 3: Make a Data folder

* Make a new folder called “Data”
* Make a new class in the folder called “ApplicationDbContext”
  + It should look like this

public class ApplicationDbContext : DbContext {

public ApplicationDbContext(DbContextOptions<ApplicationDbContext> options) : base(options) {

}

public DbSet<DataItem> DataItems { get; set; }

}

Step 4: Add configuration in Startup.cs

* Add the following lines under the builder.Servies lines

Builder.Services.AddDbContext<ApplicationDbContext>(options =>

options.UseSqlServer(builder.Configuration.GetConnectionString(“DefaultConnection”)

));

Step 5: Migrate models to database

* Open the Package Manager View
* add-migration migrationName
* update-database

Step 6: Add database functionality to the controllers

* Add this to the top of controllers

private readonly ApplicationDbContext \_db;

public NameController(ApplicationDbContext db) {

\_db = db;

}