

Lab 5 – Entity Framework

CS296N, Web Development 2: ASP.NET

Objectives

Get practice:

- Using Entity Framework (EF)
- Using a Repository with EF
- Adding Database Seed data to a project

Part 1: Textbook Exercise

Finish the project in Freeman Ch. 8 – SportsStore: A Real Application (page 207 to 234)

Part 2: Community Information Web site

Add Entity Framework Core to the Project

Follow the steps as shown in Ch. 8 of the textbook to add or modify the following files:
(You may have named your files differently and that's OK)

Modify

- project.json
- Startup.cs
- MessageRepository.cs
- Message.cs (add MessageID)
- Member.cs (add MemberID)

Add

- appsettings.json
- ApplicationDbContext.cs
- SeedData.cs

Seed Data and Repositories

Remove the hard-coded fake data from the repositories and replace it with code that will get real data from the database via the DbSet in the ApplicationDbContext.

Add code to put data for manual testing in the database (you will still have the fake repositories in your test project for automated unit testing).

There should be at least four messages in the database from at least two members. There should be at least two topics represented.

Testing

You should be able to display data from the database in your views. Make sure that you have at least one view that displays messages, including the member who sent them.

Please add a link (or links) to your home page for the view (or views) that display data from the database.

Submission to Moodle

Beta Version

Upload the following to the Code Review Forum:

1. Part 1: A document containing screen-shots of the SportsStore web app from Ch. 8 of the textbook running in your browser. (Please use .docx or .pdf format)
2. Part 2: A zip file containing your Community Info web app's Visual Studio solution folder.
Or, a link to a repository containing your web site solution source code. You can put the link on the same document with the report on your exercise from part 1.
3. A code review of your lab partner's work. (You do this after your lab partner submits items 1 and 2 and you review them.)

Production Version

1. Items 1 and 2 above, but revised as needed.
2. The code review of your work (the one done by your lab partner) with the second column ("Production") completed by you.
3. Optional: A link to your web site running on Azure. (You can put the link on the document containing the screen shots of your exercise from part 1).