

Lab 4– Entity Framework and Dependency Injection

CS296N, Web Development 2: ASP.NET

Objectives

The purpose of this lab is to help you learn to:

- Use the ASP.NET MVC Dependency Injection service
- Use Entity Framework and a database
- Use a repository with Entity Framework
- Provide seed data for a database

Part 1: Chapter 18 Exercise

Do the exercise in Freeman, *Pro ASP.NET Core 2*, chapter 18, Dependency Injection

Part 2: Community Information Site or Fan Web Site

Convert your web site to use a database for storing stories (and their authors) or messages (and their senders). You will do this by using Entity Framework Core and adding the following to your project:

- A DbContext class
- A connection string (use a unique name for your database, not the same name as the one used by the author of the textbook, your instructor, or your lab partner)
- A DbContext object in your “real” repository to access data in the database.
- A SeedData class that puts initial Stories or Messages in the database.

Submission to Moodle

Beta Version

Upload the following to the Code Review Forum:

1. A document containing screen-shots of the web app in exercise running in your browser. (please use .docx or .pdf format)
2. A zip file containing your 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 tutorial exercise.
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

Written by Brian Bird, Lane Community College, winter 2018

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.