Lab 7 – Async Methods and LINQ Queries, Group A: Book Catalog

CS295N, Web Development 1: ASP.NET

Objectives

Gain experience:

- Add a rating field to the data model
- Writing async methods
- Writing LINQ queries
- Deploying a web app to Azure

Book Catalog Web App

Part 1: Add a ratings field to the data model, and update the database and web pages to include this field. Use https://docs.microsoft.com/en-us/aspnet/core/tutorials/razor-pages/new-field as a guide.

Part 2: Add a search page to the app

Modify your Book Catalog web app to add the following features:

- Add a page named *Search*. Use only async methods for the HTTP request handlers on this page. The search results can be displayed in the same way as those on the Index page, but without the *create new*, *edit*, and *delete* links (but do include the *details* link)
- Add search features to search by title, author, rating, and publication date range. Use the await keyword for each search
- Remove the search from the Index page.

Part 3: Publish to Azure

Set up a free account on Azure (see the Moodle page for this week for info on how to set up an Azure account). Deploy your web app to Azure (see the Moodle page for a link to a tutorial on publishing your web app to Azure).

Submission to Moodle

Beta Version

Upload the following to the Code Review Forum:

1. 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 exercise from part 1.
2. A code review of your lab partner's work. (You do this after your lab partner submits item 1 and you have reviewed it.)

Production Version

1. Item 1 as above but revised as needed.
2. Item 2 above.
3. The code review of your work (the one done by your lab partner) with the second column ("Production") completed by you.