Lab 9 – REST Web API, Group A: Book Catalog

CS295N, Web Development 1: ASP.NET

Objectives

Gain experience:

- Creating a Web API
- Testing REST endpoints with Postman

Book Catalog Web API

Part 1: Create an ASP.NET Core Web API project that provides all the functionality of your previous Book Catalog app but with no GUI (no web page). Use Create a web API with ASP.NET Core and Visual Studio for Windows as a guide, but use an actual SQL database with your Web API app.

This Web API will have REST endpoints for:

- Getting a listing of all the books
- Adding a book
- Deleting a book
- Getting info on a single book
- Editing info on a single book

Part 2: Test each endpoint using Postman. Take one or two screenshots of each test. The screens you capture should be chosen so that the screenshots verify the correct operation of each endpoint.

Part 3: Publish your Web API 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. Screen-shots of your Postman tests
3. 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 and 2 as above but revised as needed.
2. Item 3 above.
3. The code review of your work (the one done by your lab partner) with the second column ("Production") completed by you.