Lab 7 – REST Web API

CS295N, Web Development 1: ASP.NET

Objectives

Gain experience:

- Creating a Web API
- Testing REST endpoints with Postman

Part 1: Tutorial

Do the tutorial: Tutorial: Create a web API with ASP.NET Core MVC
Do all of the tutorial except Call the API with jQuery. Take screen shots of it running.

Part 2: Your Own Web API

A) Create an ASP.NET Core Web API project that provides all the functionality of your previous lab's web app but with no GUI (no web page).

This Web API will have REST endpoints for the HTTP verbs listed below. Use the conventional REST URL format of domain/service/parameter. For example, a PUT request might look like: `http://localhost:5000/api/Book/5`

- GET
- POST
- PUT

- PATCH
- DELETE

B) Test each endpoint using Postman. Take a screenshot of each test showing the response or copy/paste the request and response into a document.

C) Publish your Web API to an online web server.

Submission

Beta Version, Test Results and Code Review

1. Submit online text or a document containing the URL of your app on a web server.
2. Commit your code to a branch of your Git repository named lab7-production.
3. Send a pull request to your lab partner and to the instructor.
4. When you get pull request from your lab partner, do a review of their code.

5. On Moodle, enter the URL of your lab partner's git branch with your code review using "online text". Please do not put it in a comment.

Production Version

1. Merge your work into a branch named lab5-master.

2. Submit the URL of your master branch and your WebAPI's URL on Moodle using "online text" or in a document that you upload. Please do not put it in a comment.