



HTTP 5101 Assignment 4

By: Christine Bittle

06/22/2020

This assignment requires you to build a minimum viable product (MVP). The MVP is to build 'add' and 'delete' functionality on the provided teachers mysql table using WebAPI and MVC architecture pattern. This will include:

| Type | Description | File |
|------------|---|--|
| - | A class which connects to your MySQL database | /Models/SchoolDbContext.cs |
| Controller | A WebAPI Controller which allows you to access information about teachers, add teachers, and remove teachers from the database. | /Controllers/TeacherDataController.cs  |
| Controller | A Controller which allows you to route to dynamic pages | /Controllers/TeacherController.cs  |
| Model | A Model which allows you to represent information about a teacher | /Models/Teacher.cs |
| View | A View which uses server rendering to display teachers from the MySQL Database | /Views/Teacher/List.cshtml |
| View | A View which uses server rendering to display a teacher from the MySQL Database | /Views/Teacher/Show.cshtml |
| View | A View which allows a to input information about a new teacher | /Views/Teacher/Add.cshtml |

Earn Initiative marks by improving upon the MVP. Some suggestions:



- Use C# Server Side Validation to ensure that there is no missing information when a teacher is added (such as a teacher name)
- Use JavaScript and Client Side Validation to ensure that the user doesn't accidentally submit a form with missing information (such as a teacher name)
- Create documentation describing the server-rendered cycles which happen when a teacher is added or removed from the system (see `server_rendered_pages.png` in Module 7)
- Maintain referential integrity by making sure that any courses in the classes MySQL table are no longer pointing to a teacher which no longer exists.
- Use JavaScript and AJAX to send an XHR request for adding a teacher (See C# For Web Development Pt10 in Module 8)
- Use JavaScript and AJAX to send an XHR request for removing a teacher (See C# For Web Development Pt10 in Module 8)

5101 Assignment Rubric

| | Level 1 (0-25%) | Level 2 (25-50%) | Level 3 (50-75%) | Level 4 (75-100%) |
|--------------|--|--|--|---|
| Quantitative | Multiple (4+) Quantitative issues. The project needs significant improvement to meet professional development standards. | Several (2+) Quantitative issues. There are several areas of improvement needed to meet professional development standards. | One Quantitative issue. A few fixes can bring this to professional quality standards. | Zero Quantitative issues. Work is at a professional level. Work is complete, maintainable, scalable, robust, efficient, extensible, and reusable. |
| Qualitative | Multiple (4+) Qualitative issues. The project needs significant improvement to meet professional development standards. | Several (2+) Qualitative issues. There are several areas of improvement needed to meet professional development standards. | One Qualitative issue. A few fixes can bring this to professional quality standards. | Zero qualitative issues. Work is at a professional level. Work is concise, readable, well-documented, tested, and includes evidence of debugging. |
| Semantic | Multiple (4+) Semantic issues. The project needs significant improvement to meet professional development standards. | Several (2+) Semantic issues. There are several areas of improvement needed to meet professional development standards. | One Semantic issue. A few fixes can bring this to professional quality standards. | Zero semantic issues. Work is at a professional level. The work achieved is considered and aligned with the context of the project. |
| Initiative | The content of the work meets the bare minimum requirements. | The content of the work meets the requirements, and there is an attempt to try something new. Not working code is commented out. | The content of the work exceeds the expectations of the assignment. Not working code is commented out. | The content of the work exceeds the expectations of the assignment, and the code runs adequately. |

