C# Cumulative Part 2

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This cumulative project involves building a Minimum Viable Product (MVP) on the Teachers table of the provided School Database using ASP.NET Core Web API and MVC. Part 2 is the Add and Delete functionality

MVP: Create, Read, Update, Delete on the Teachers Table.

Туре	Description	File	
-	A class which connects to your MySQL database	/Models /SchoolDbContext.cs	
Controller	A WebAPI Controller which allows you to add and delete teachers	/Controllers /TeacherAPIController.cs	
Controller	An MVC Controller which allows you to route to dynamic pages	/Controllers /TeacherPageController.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 a page that allows for a user to enter a new teacher	/Views /Teacher /New.cshtml	
View	A View which uses server rendering to display a "Confirm Delete" page for a teacher from the MySQL Database	/Views /Teacher /DeleteConfirm.cshtml	

How to submit

- 1. Use Visual Studio / git to push your work to a remote repository (Parts 1, 2, and 3 can be on the same repository)
- 2. Verify the repository:
 - a. contains the work you wish to submit (i.e. the files are there)
 - b. is public (if it is set to private, change it to public!)
- 3. Include repository github link as part of your assignment submission (Do not share the link or your work with anyone else)
- 4. Include evidence of your testing as a PDF with screenshots of your cURL commands and web pages

(Quantitative: 8 Marks): Implement the required MVP using ASP.NET Core:

- (2 Marks) An API which adds a Teacher
- (2 Marks) An API which deletes a Teacher
- (2 Marks) A web page that allows a user to enter new Teacher information
- (2 Marks) A web page that confirms the action to delete a Teacher

(Qualitative: 8 Marks): Document your work with (a) descriptive:

- (2 Marks) Summary blocks for your API methods
- (2 Marks) Teacher Model Properties (Teacher.cs)
- (2 Marks) Variable names
- (2 Marks) Project .readme

(Testing: 8 Marks): Include evidence of the following testing:

- (2 Marks) Your API that adds a Teacher using POST Data
- (2 Marks) Your API that deletes a Teacher
- (2 Marks) Your web page that allows a user to enter new Teacher information
- (2 Marks) Your web page that confirms the action to delete a Teacher

(Initiative: 8 Marks): Earn up to 8 Initiative Marks by improving on MVP

- (2 Marks) Error Handling on Delete when trying to delete a teacher that does not exist
- (2 Marks) Error Handling on Add when the Teacher Name is empty
- (2 Marks) Error Handling on Add when the Teacher Hire Date is in the future
- (2 Marks) Error Handling on Add when the Employee Number is not "T" followed by digits¹
- (2 Marks) Error Handling on Add when the Employee Number is already taken by a different Teacher
- (2 Marks) Add Functionality Students
- (2 Marks) Delete Functionality for Students
- (2 Marks) Add Functionality Courses
- (2 Marks) Delete Functionality for Courses
- (2 Marks) Use JS and AJAX to add a Teacher
- (2 Marks) Use JS and AJAX to delete a Teacher
- (2 Marks) Modify Teachers table with "teacherworkphone" field, include that field as part of the Add functionality

¹ Best practice would be to have the Teacher Employee Number managed by the database as a unique identifier, similar to the Teacher Id primary key. Not part of this assignment

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	0 Marks	1 Mark	2 Marks
Quantitative	Functionality not implemented	Functionality partially implemented / implemented with room for improvements	Functionality implemented, no improvements required
Qualitative	Documentation not included	Documentation partially included / included with room for improvements	Documentation included, no improvements required
Testing	Testing not included	Testing partially included / included with room for improvements	Testing included, no improvements required
Initiative	No initiative elements attempted	Initiative elements partially implemented / implemented with room for improvements	Initiative included, no room for improvements