Code Test

Functional Specifications

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OVERVIEW

This is a small exercise to demonstrate my qualifications as a C# / .NET Developer

SOFTWARE TOOLS

Visual Studio 2015

C# / .NET / MVC / WebAPI / Entity Framework

SQL Server 2014 or later

HTML / Razor / jQuery

HOME PAGE SCREEN

It shows the landing page where you could navigate to go to Classes and Students screens

CLASSES PAGE SCREEN

It has 4 basic functions:

1. List – listing of all existing Classes, default content
2. New – Create new Class
3. Edit – Edit an existing Class
4. Delete – Delete a Class

The validations for Class information are as follow:

1. All fields are required
2. The Teacher field must start with a salutation like: Mr Jones, Ms Amy

STUDENTS PAGE SCREEN

It has 4 basic functions:

1. List – listing of all existing Students, default content
2. New – Create new Student
3. Edit – Edit an existing Student
4. Delete – Delete a Student

The validations for Student information are as follow:

1. All fields are required
2. The birthday must be not more than 80 yrs of age
3. Surname must be unique

UNIT TEST CASES

The case scenarios has primarily focused on the following items:

1. Make sure the Default content is loading: /<controller>/index
2. Make sure the New page is loading: /<controller/Edit
3. Make sure Editing unknown record will produce an error /<controller/Edit/99999
4. Make sure Deleting unknown record will produce an error /<controller/Delet/99999

THE REST API

There are 2 endpoints for the REST API:

1. Return all Classes: http://<api-host>/classes
2. Return all Students: http://<api-host>/students