SENECA WEB PROGRAMMING PROGRAM
FALL 2020 SESSION

Module Number: WEB 306
Assignment #3

Instructor: Tim Lai
Title: Laravel Written Answers
Assigned: Thursday November 12
Due date: 11:59pm Thursday November 26
Value: 10%

Submission details: This assignment MUST be submitted in at least one of 2 ways, as specified below. If the assignment does not follow the specified instructions, it will be considered incomplete. *Failure to upload this assignment will result in a grade of zero for this assignment*.

1. This assignment should be uploaded to a **GitHub repository** which I will invite you to. When I download this GitHub repository I must be able to access all your source files so that I can see your PHP code and run your app. *DO NOT INCLUDE YOUR vendor FOLDER OR YOUR node_modules FOLDER BUT MAKE SURE THAT ALL REQUIRED PACKAGES ARE LISTED IN YOUR composer.json AND package.json FILES RESPECTIVELY*.
2. If you have difficulty uploading to GitHub, then you may alternatively upload your assignment as a ZIP file to an online cloud storage site such as **Google Drive** or **WeTransfer** and send me a link at **tim.lai@senecacollege.ca**. *DO NOT EMAIL ME A ZIP FILE AS AN ATTACHMENT. I WILL NOT RECEIVE IT.*

Instructions: You will be writing an **explanatory document** in the form of a **Laravel app** with a single **route** and **Blade template**, which answers the following questions:
   1. What are static properties and methods and how are they used? What is a static class?
   2. What is a namespace and what is it used for?
   3. What is Laravel and what is it used for?
   4. What is Composer and what is it used for in relation to PHP and Laravel specifically?
   5. Explain the MVC paradigm, identify and describe each of its three major concepts and explain how each relates to Laravel.

All content in this document should be written **in your own words** (aside from the questions themselves) and you should **cite your sources**. You may cite my lecture notes (please include day and page numbers), textbooks, or credible online sources such as the *PHP* documentation, *Laravel* documentation, *Composer* documentation or *TechTarget*. It is not necessary to follow a citation style – just include the name of the resource and a link if it is an online resource. *DO NOT SIMPLY COPY/PASTE FROM MY NOTES*. You must also run these definitions through a plagiarism checker.

Your answers should be passed from your Laravel app's **route** to the **view** so that they can be displayed using **variables** in the **Blade template**. You are not required to loop through the answers but try to challenge yourself to store the answers in an array and loop through them using a Blade loop.

You should demonstrate a basic competency with HTML. You *MUST* have valid HTML according to the W3C validator (https://validator.w3.org/) or there could be deductions. It would also be a good idea to make use of semantic markup where appropriate. You may make use of CSS and JavaScript, but it is not required, and the quality of any CSS/JavaScript code included will not be evaluated.

Please include your full name and Seneca email address somewhere on the page or in a comment.

Grading breakdown:
- Accuracy, clarity and completeness of written answers and comparisons **(50%)**
- Inclusion of and quality of sources used **(10%)**
- Use of PHP, Laravel and routes **(15%)**
- Use of HTML and Blade templates **(15%)**

Your files should contain only valid (as determined by the W3C validator) HTML code. You can use invalid code in the HTML but if you do, you must include a comment beside the invalid code explaining your decision. To properly validate your HTML in your PHP files, you MUST do a "view source" of the page in a web browser. The W3C validator does not understand PHP code. *You will lose 2% per type of uncommented validation error*. You should not have any PHP or Laravel errors. *You will lose 2% per PHP or Laravel error which could have been fixed*.

Late Policy
All late assignments will be given a grade of zero.

Plagiarism
There are serious penalties for cheating and plagiarism offences and you are expected to be aware of our Academic Honesty Policy. Please refer to the Academic Policy at http://www.senecacollege.ca/ academic-policy/acpol-09.html for more information.