

Bonus project

Project Due: 11:59 pm, Saturday, December 9, 2017

Note: Submit through Canvas. No late submission will be accepted.

At least 5% bonus towards the course total, beyond 100% total credit of this course.

There are two tracks for the Bonus Project. A readme file must be included in the root folder of the project. The readme file account for 20 points of the project credit. It should have following items.

- (10 points) Text
 - More than 300 (500 for student track) words. Submission less than 300 words will be proportionally penalized.
 - Clearly explain input, output, and processing of the web application project.
- (10 points) A structure diagram or flow chart that shows the structure or procedure of this website.

1. **Regular track:** Write an online book store website (typically online store) with HTML, CSS, and JavaScript (or PHP) using WebMatrix, Visual Studio, or Visual Studio Code. JavaScript pages will be executed on the client side. PHP pages will be largely executed on the server side.

- HTML forms are required.
- The website must contain dynamic content.
- JavaScript (or PHP) must be used to generate dynamic content. The minimum line count for JavaScript (or PHP) is 150 non-trivial lines.
- If JavaScript is used, HTML DOM must be used.
- If PHP is used, object-oriented programming (OOP) must be employed.
- The website must have more than five books for sale.
- Must have one page for book selection.
- Must have one page for placing order.
- Must have one page for credit card payment and finalizing purchase.
 - Using PayPal is a good alternative
 - The credit card payment page does not need to implement real card transaction, just getting input of card information would be good enough.
- Must have a readme file to show the general design or algorithm of your project (website).
- We have not covered cookies yet, using cookies is optional, not required.
- **Not group project**
- **Excessive similarity will result in zero grade on all parties involved**

2. **Student design track:** Write customized website for any appropriate application with HTML, CSS, JavaScript (or PHP).

- HTML forms are required.
- Read me file must contain more than 500 words.
- The website must contain dynamic content.
- JavaScript or PHP must be used to generate dynamic content. The minimum line count for JavaScript or PHP is 150 non-trivial lines.
- If JavaScript is used, HTML DOM must be used.
- If PHP is used, object-oriented programming (OOP) must be employed.
- **Not group project**
- **Excessive similarity will result in zero grade on all parties involved**