

CPS530 - Term Project - Fall 2021

Subject: Demonstration and website tutorial of web application frameworks or content management frameworks.

Teams: Minimum 1 student, maximum 3 students

Pick two frameworks your choice, one for the front-end (client side) (CSS/JS: ex: Angular, Semantic UI, Foundation, Materialize, Vue.JS, Sass, React, Ember, Svelte, Bulma...) and one for the back-end (server side) (PHP/Python/Perl/C#/Ruby...: ex: Laravel, Ruby on Rails, Node.js, Flask, Express, Django, ASP.NET, Spring, Koa, Phoenix...). You create a website that presents the frameworks in a concise fashion as a tutorial.

****Note:** You are permitted to use Bootstrap and jQuery but they will not count as your front-end choices. You will need to pick another front-end framework in addition to Bootstrap and jQuery.

Your website shall have at least 6 pages, they can all be done using the frameworks of your choice (better) but at least page 4 (demo page) must be (the other 5 can be regular html/css if you want). Following are the requirements for each of the six pages.

Page 1.

A summary snapshot presentation of the chosen frontend Framework: Popularity, strengths, weaknesses, which developers mostly use it and for what kind of websites. A summary snapshot presentation of the chosen backend Framework: Popularity, strengths, weaknesses, which developers mostly use it and for what kind of websites.

Page 2.

~~A tutorial showing in short simple steps how to install the frameworks on your chosen platform. Back-end frameworks cannot be installed on the Ryerson servers, you will have to host on an external server. You can use shared hosting or better yet a VPS service or something similar, or set your own server on your own machine (must have permanent connection and be ip accessible). DigitalOcean (<https://www.digitalocean.com/?refcode=6350bfbec950>) is an inexpensive and versatile option. If you use my link, you get a credit of a few dollars. Provide installation instructions for both frameworks.~~

Page 3.

A short tutorial showing how to create a great looking page (or pages) with text, images, and styles using your chosen frameworks. The subject of your page(s) is entirely yours.

Page 4.

The actual page that is the result of step #3. Again up to you. This is your actual demo website. Don't forget to mention the URL/link that goes directly to the page here.

Page 5.

The conclusion. Rate your experience with the frameworks that you chose. Did they perform to your expectations? Were they difficult to install or configure? Was it easy to create the page(s) with it? Was the learning curve steep compared with regular HTML/CSS/JavaScript/PHP? Would you have done things differently in retrospect? Did you regret your choice of frameworks?

Page 6.

A credits and references page. Identify the team members (with pictures if possible) and mention the different members' responsibilities. Also mention references here if non original material was used.

Submission of the project is to be done on the D2L/Brightspace system. You will only need to submit two URLs:

[1] The URL to the main entry point of your project site.

[2] The URL of the demonstration page/website. Project is due on the date and time provided in the D2L dropbox. Do not delay! Start as soon as you can!