PIC 40A Final Project

The final project for PIC 40A offers you the freedom to develop a website with interactive features to demonstrate your understanding of the course topics: HTML5 and CSS3; JavaScript; and PHP. While there is no final exam for this course, through your project work, you should demonstrate a solid proficiency of each of these three major topic areas.

The project has three parts and is scored out of 50 points.

- Executive summary report (1 page) – 5 marks
- Oral presentation (4 minutes) – 15 marks
- Deployment of a live, interactive website – 30 marks

As this is done in lieu of a final exam, you must work individually on this, without the help of your instructors. You may use any online resources or books that you wish.

The project counts for 25% of your final grade: as such, it should be equivalent in work to 3 large homeworks.

Some project ideas (you can do others) could entail: designing an online game with animations, where users could save their progress and return at a later time to continue where they left off; or designing a simple message board/blog where users can register, post content, and see the posts of other users; or anything else where you can combine the course topics.

1 Executive Summary Report – Due Sunday, June 5, 3 pm

In one page or less, you are required to (i) explain what your website does, (ii) overview the HTML5 and CSS3 features used within it, (iii) overview the JavaScript that is used for the site, and (iv) outline the PHP and server-side scripting that is used. Roughly one paragraph should be dedicated to each of those items. The font-size should be at least 12-point font!

Grading is based on a rubric with the following items:

- Clarity of intent and presentation of the big picture: 3 (excellent); 2 (good); 1 (satisfactory); 0 (poor)
- Spelling and grammar: 2 (excellent); 1 (satisfactory); 0 (poor)

2 Oral Presentation – Monday, June 6, 7:00 am - 11 am

You are required to give an oral presentation on the work you completed for your project. You have 3-4 minutes to present your work to the class. Your presentation, if you use slides, should be loaded on your website so that when you get up to present you merely go to your URL and present.

Roughly, you should aim to: (i) show the class your website an explain briefly what it does (1 minute), and then provide a high level overview (you don't have to show code) of where HTML5, CSS3, JavaScript, and PHP were used in your site (2 minutes). There will then be time for a couple of short questions from the audience.

Grading is based on a rubric with the following items:

- Website purpose conveyed clearly: 3 (excellent); 2 (good); 1 (satisfactory); 0 (poor)
- Usage of HTML, CSS, JavaScript, and PHP explained clearly: 3 (excellent); 2 (good); 1 (satisfactory); 0 (poor)
- Body language and voice: 3 (excellent); 2 (good); 1 (satisfactory); 0 (poor)
- Clarity and accuracy in responding to questions: 3 (excellent); 2 (good); 1 (satisfactory); 0 (poor)
- Sticking to time: 3 (within 4 minutes plus 30 second grace period); 0 (more than 4:30)

3 Live Website – Due Monday, June 6, 7:00 am

You must submit the files of your website to CCLE by the due date. You must also provide a link to the live, functioning website that can be visited by your peers and those grading your work...

Grading is based on a rubric with the following items:

- Use of HTML5 semantics: 2 (excellent); 1 (satisfactory); 0 (poor)
- HTML5 syntax/structure: 2 (excellent); 1 (satisfactory); 0 (poor)
- Usage of CSS3: 2 (excellent); 1 (satisfactory); 0 (poor)
- Overall website aesthetics: 4 (reasonable to excellent); 2 (a little messy); 0 (poor)

- Usage of JavaScript: 4 (excellent); 2 (lacking); 0 (hardly used)
- JavaScript documentation: 2 (excellent); 1 (satisfactory); 0 (poor)
- JavaScript works: 4 (works as intended); 2 (minor bugs); 0 (does not function)

- Usage of PHP: 4 (excellent); 2 (lacking); 0 (hardly used)
- PHP documentation: 2 (excellent); 1 (satisfactory); 0 (poor)
- PHP works: 4 (works as intended); 2 (minor bugs); 0 (does not function)