

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; PHP; and file storage/databases. Through your project work, you should demonstrate a solid proficiency with each of these topic areas.

The project is worth 30% of your overall grade and should roughly encompass the work of 5 homework assignments done with care. It has two parts and is scored out of 30 points.

- Oral presentation (3-4 minutes) – 7 marks
- Deployment of a live, interactive website – 23 marks

As this effectively serves as a practical final exam, you must work individually on this, without the help of your instructors, at least for the aspects of your website that pertain to using course content. You may use any online resources or books that you wish. You may use various libraries like **jQuery**, **underscore**, etc., **but everything else must be your own original work/coding.**

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;
- designing a message board/blog where users can register, post content, and see the posts of other users;
- designing a fake business webpage that sells a product/service, that tracks its clients, gives them special access when they log in, etc.;
- designing a polling platform that allows users to create accounts, generate surveys that participants can complete, and parses the results;
- or anything else that requires a reasonable amount of design work (HTML+CSS), interactivity/dynamic features (JS), and backend data management/processing (PHP).

1 Oral Presentations – December 6 and 7, 8-8:50 am

You will give a very brief "lightning presentation" of your website by explaining its purpose, design, and functionality to the class. By this date, you may not be fully done with your website. That is okay; we all understand it is a work in progress and that more work will be done before the deadline of the live website.

You will be assigned a time to speak during week 9. You will have 3 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 and 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 should be time for at least one audience question.

Grading is based on a rubric with the following items:

- Sticking to time: 2 (within time limit plus 30 seconds grace period); 0 (more than time limit plus 30 seconds)
- Communication skills: 2 (voice was clear, presentation was engaging), 1 (between 0 and 2), 0 (hard to understand, unengaging)
- Content: 2 (website purpose was made obvious as was its use of HTML5, CSS3, JS, PHP, and data management), 1 (between 0 and 2), 0 (purpose unclear, some key usages were absent)
- Accuracy: 1 (proper terminology used, accurate descriptions of processes), 0 (clear mistakes)

Attendance will be taken at the presentations. By not attending those of your peers on both days, outside of valid, documented absences, there will be a 2 mark deduction in your oral presentation grade.

2 Live Website – Due Monday, December 10, 11:00 am

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

The website must be accessible at the link:

www.pic.ucla.edu/~your_username/Final_Project and you can make no changes to the files of the website after the deadline. Be sure to submit your laguna username when submitting your project!

Grading is based on a rubric with the following items:

- HTML5 code: 2 (excellent – meets style requirements), 1 (okay – missing one or two style requirements), 0 (poor – does not meet style requirements)
- CSS3 code: 2 (excellent – meets style requirements), 1 (okay – missing one or two style requirements), 0 (poor – does not meet style requirements)
- Overall display and design: 2 (excellent – website looks good aesthetically, content is well-placed), 1 (okay), 0 (poor – website appearance is poor, content badly placed)
- JS code: 3 (excellent – meets style requirements), 2 (good – meets most style requirements), 1 (below expectations – not really following style requirements), 0 (poor – does not follow style requirements)
- JS functionality: 3 (excellent – works as intended), 2 (good – mostly works with minor issues), 1 (below expectations – does not work well), 0 (poor – does not work at all)
- PHP and data management code: 3 (excellent – meets style requirements), 2 (good – meets most style requirements), 1 (below expectations – not really following style requirements), 0 (poor – does not follow style requirements)
- PHP and data management functionality: 3 (excellent – works as intended), 2 (good – mostly works with minor issues), 1 (below expectations – does not work well), 0 (poor – does not work at all)
- Creativity: 2 (excellent – has novel elements), 1 (okay – does what is expected), 0 (poor – bare minimum done)
- Difficulty: 3 (very challenging – going beyond what is covered in the course and learning new things), 2 (challenging – pushing the course material to its limits), 1 (modest – mostly simple ideas), 0 (trivial – doing the bare minimum)