

# CMSI 270-01

## MODERN WEB APPS

Fall 2011

### Assignment 1215

One last assignment to add to the portfolio. As mentioned in class, while this is due alongside the portfolio itself, you are encouraged to turn it in well before the due date in order to get feedback about it.

### Outcomes

This assignment focuses on outcomes *1b*, *1e*, *1f*, *1g*, and *3d*. Applicable prior outcomes include *1a*, *1c*, *1d*, *1h*, *1i*, *1j*, *2e*, *2h*, *3a*, *3b*, *3c*, *3e*, and *3f*.

### For Submission

Once any of these items is ready, notify me so that I can provide feedback on them.

### Interactive *secure.cs.lmu.edu*

Use what you have learned about interactive HTML elements and jQuery/JavaScript to create dynamic versions of the pages on the *secure.cs.lmu.edu* web site (and have another shot at immortality!). There are three pages on this site:

- <https://secure.cs.lmu.edu>
- <https://secure.cs.lmu.edu/create.php>
- <https://secure.cs.lmu.edu/reset.php>

For one of them (your choice), do the following:

1. Download your own copy to your computer as an *.html* file.
2. Convert them to HTML5 (i.e., `<!doctype html>` with a `meta charset` element).
3. Separate the embedded style element into its own CSS file (with corresponding link element).
4. Add JavaScript to the page (script element[s] and *.js* file) so that its submit button is not enabled until the required information has been supplied by the user. You may modify the HTML as needed to accommodate what your JavaScript code requires.
5. Add any other JavaScript or CSS that you feel enhances the usability, aesthetics, and overall quality of the web page.

Exemplary enhancements to these pages will serve as the basis for *secure.cs.lmu.edu* “version 2.0,” with credit to its developer!

### Culminate Your Commentary

Supply an additional web page that contains commentary on these tasks. These tasks exercise the accumulated knowledge and skill set presented in this course. Talk about:

- **Learning More** — If you are asked to pursue modern web app development on your own, how would you go about it?
- **Teaching About It** — If a friend, roommate, or family member asked you, “Teach me some of what you learned in this class,” how would you go about it?

### How to Turn It In

- Don’t forget to run your code through validators (*3c*) and JSLint (*3d*)! Use these JSLint settings:
  - ✓ Assume `console`, `alert`, ...
  - ✓ Assume a browser
  - ✓ Tolerate missing `'use strict'` pragma
  - ✓ Add `$` to the **Predefined** text field

As always, if you get stuck, *ask me for help*.

- Upload your work to *my.cs.lmu.edu*.
- For anything that you complete before the due date, inform me of its availability so that I can provide you with feedback.

### For Extra Credit Submission

Successful execution of this extra credit task will log +’s in your proficiency measures for outcomes *1a* to *1j*, *2e*, *2h*, and *3a* to *3f*.

Write a web page application that demonstrates one or more of the following functionalities:

- Ajax using JSON web services
- Use of the jQuery UI library
- Use of the canvas element
- Custom controllers for video or audio elements

If you are interested in taking on one (or more!) of these, talk to me so we can establish specifics.