

ITEC 2380 - Web Development

Final Project

Grade: 100 points total = 80 points (Final Project) + 20 points (Progress Reports)

Format: Individual Project

Goal: To design, develop, and publish a web site using recommended design practices. Your web site will contain a home page and at least five (but preferably no more than ten) content pages. You are required to create an external style sheet (.css file) that configures text, color, and page layout. (No font tags, embedded CSS, or inline CSS may be used.)

Each person must select a topic to develop into a website, document the idea, publish the project to the Internet and D2L, and develop a presentation in D2L discussions to showcase it over the course of the semester.

Students' Web Space

I will ask MGA's Server Department to create a folder for you about halfway through the semester. I will notify the class through the news items when they are loaded. Students are required to publish on WebDav at the end of the semester and link their website into the D2L presentations thread.

Specific grading scales are listed as follows.

Project Grade (80pts total):

Each person has to upload the project to the Internet and D2L. Required components of the Project include:

- Find appropriate topics or cases for your final project (e.g, School Web Site, Bookstore Web Site, Commercial Web Site, personal/family website, etc.)
- Documentation about your project in a Word Document
- A recorded presentation about your project posted to a video hosting site
- A complete website consisting of at least **6 pages (1 homepage and 5+ content pages)** based on your topic, documentation, and presentation
- Documentation and Source Code should be submitted to the D2L dropbox. The presentation should be posted in the appropriate Discussion topic.

Documentation Requirements

The documentation should be in a report or an essay format, rather than answering questions directly. Consider it documentation you and other developers can use to "get into the mindset" of being a developer in your site.

1. Wireframe
2. What is the purpose of the site?
3. What do you want the web site to accomplish?
4. Who is your intended audience?

5. What opportunity, problem, or issue is your site addressing?
6. What type of content might be included in your site?
7. List at least two related or similar sites found on the Web.
8. Document WAVE accessibility Results (<https://wave.webaim.org/>)
9. Document WebFX readability Results (<https://www.webfx.com/tools/read-able/>)
10. Document PageSpeed Insights optimization results (<https://developers.google.com/speed/pagespeed/insights/>)
11. A documentation of your **usability test** results with real people. I encourage you to seek out friends and family outside of the classroom.
 - 2-3 people are sufficient.
 - General people know how to use your website.
 - General people understand the purpose of your website.
 - General people can find information they want.
 - Each time when you receive feedback, you improve your website based on the feedback.
 - Document the process of how you enhanced your website using feedback.
12. What is the 'next step' to further developing this solution? E.g. Future Planned Activities

Presentation Requirements

1. Each person has to create a **recorded presentation** for their final project in D2L discussions area with a link to your website on WebDav. The presentation should include; but isn't limited to:
 - Overview of your web site
 - Web pages demonstration
 - Summary (Difficulties and experiences of this project)
2. Recommend using OBS Studio or YouTube creator - <https://www.youtube.com/watch?v=2N6uMsaHOas>
3. Videos can be hosted via YouTube or your Office 365 Onedrive
4. No more than 10 minutes
5. What is your website about? What are you trying to accomplish? What did you learn?
6. I encourage students to respond to the presentations during Finals Week

Source Code of Completed Website

Structure

1. All pages should be clean of errors in the validator
2. Should contain HTML Semantic Tags (header, nav, main, & footer)
3. Should contain list structures (or)
4. Should contain implementation of the <table> tag
5. Should contain HTML Form Controls
6. Should contain Images and Hyperlinks
7. Should contain mixture of written text and images/multimedia
8. Should NOT contain inlined CSS; all CSS should be in stylesheet

Design

1. Should implement column-based layouts (float or flex CSS)
2. Site must use an appropriate color scheme from documentation
3. Consistent navigation, branding, and design among all pages
4. Responsive design techniques to adapt the website to different browser widths.

Accessibility / Usability

1. All pages conform to HTML5 standards and W3C Valid (Checker will be used).
2. All CSS is valid (Checker will not be used).
3. Pages should display correctly in major browsers (I.E., Firebox, Opera and Chrome)
4. Alternative text for graphical navigations, images, and videos where appropriate.

What to Submit at the End

I will want to see:

1. A 'Presentation Thread" submitted in the D2L Final Project Discussions Area and a link to a <http://studentweb.mga.edu> web folder hosting the website.
 - a. All students are encouraged to participate in the discussion by reviewing other students' websites. Please be positive and encouraging; all websites are a work in progress!
2. In the Final Project D2L Dropbox area I'll be looking for:
 - a. Your "Final Documentation" in Word Document Form
 - b. **ZIP or RAR** file of the source code of the website

Progress Reports (20 points)

Progress reports throughout the semester are meant to help students stay on schedule for delivering the Final Project at the end of the course. Reports will help you begin documentation of your project idea and should be compiled into one document at the end of the course that includes testing results/plans to form the final documentation of the website.