

CIS 370 Assignment 1 (50 Points)

The purpose of this assignment is to set up a framework for your web site to be used throughout the rest of the course. There is very little in this assignment that should be new to you if you successfully completed the Client-Side Web Programming course that is a prerequisite to this course. You should only use Client-Side technologies for this assignment (HTML, CSS, and JavaScript). I want your site to be well organized and well planned. This includes using a standard directory structure for organizing all of your code and support files. You should also set up a consistent page layout using appropriate tags to arrange standard sections of your page and external cascading style sheets and JavaScript code to consolidate standard content and functionality instead of duplicating code in multiple places.

Your first task is to come up with a theme or purpose for your site. You are free to choose anything you like (within reason and unrelated to a 411 project) but make sure it is expandable so we can add functionality from one assignment to the next. I have listed a few examples below but do not feel limited by these in any way. I want you to choose something that you have an interest in so that you might take some pride in it.

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| <ul style="list-style-type: none">• Rating or Forum Site• Gaming Tournaments• Humane Society or PAWS• Church• Sharing Something (recipes, sewing patterns)• Musical Band | <ul style="list-style-type: none">• Sports Team• Fire Company• Club page for a student group.• Selling anything – family business?<ul style="list-style-type: none">○ Travel Agency○ Auto Repair○ Real Estate |
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Specific Requirements:

1. Come up with a theme for a site that you will continue throughout the semester.
 - a. Put some thought into the functionality that your site should provide and implement later.
 - b. Set up the navigation system to reference appropriate content even if it is not yet implemented.
 - c. Give some thought to what kind of data you will be including in later assignments.
2. Follow the basic principles of good web site design.
 - a. A very brief overview can be found in the [Skills and Techniques \(http://en.wikipedia.org/wiki/Web_design\)](http://en.wikipedia.org/wiki/Web_design) section of this wikipedia article on web design.
3. Create a basic template, color scheme, and CSS for your site and use them consistently.
 - a. Limit any duplication of code to the extent possible.
 - b. Use external files for CSS and JavaScript.
4. Organize the files for your site into appropriate folders.
 - a. Includes separate subfolders for CSS, images, and JavaScript, etc...
 - b. Use relative addresses to refer to each of these.
5. Include an index.html page in your http://cisprod.clarion.edu/~s_account/ folder that will automatically redirect to the proper entry point for this assignment so that following the above address is my means of testing your site for grading this assignment.
6. Include a site Navigation system (menu, links, etc)
 - a. Include Major and Minor items in navigation system.
 - b. Include major groups for Home, Admin, Help, and at least two others.
 - i. Under the Help menu, include an About page that lists your name as the developer and perhaps a date and make your name an e-mail link to yourself.
 - ii. On your About page, include a fictitious company name and address and include an interactive Google Map centered on your address (see <https://developers.google.com/maps/tutorials/fundamentals/adding-a-google-map> for instructions).

- iii. Also under the Help menu include an Ideas page that includes links to at least 3 sites that you used to borrow ideas for content, functionality, layout, ect... These sites should be from a similar genre (topic area) as your site.
 - iv. Include believable content on your Home page and include at least one other page with static (hard-coded for now) data that will later be replaced by database data.
 - c. All navigation Links that are not yet implemented should show an under construction message.
 - d. Include a footer with an e-mail link for comments.
- 7. Include at least three image files and use CSS/JavaScript to randomly choose one to show.
 - a. Every time the page is reloaded there should be the potential for a different image to show.
 - b. Make sure the images show in a similar height/width footprint.
- 8. Include an icon or menu item available from the Home Page to see a “Newsletter” or something similar that makes sense to your site. This icon or menu item should show a believable example of what that content might look like. If you are doing a Travel site, you may have a “Last Minute Deals” or if you are doing a car dealership you may have a “New Arrivals” or if you are selling something then maybe a “Weekly Speicals”.
- 9. Include an icon for your site that shows on the browser tab when any page of your site is visited.
- 10. Implement a Responsive Web Design technique so your site is reformatted automatically for at least two different screen resolutions.
- 11. Make sure all pages on your site pass the HTML5 conformance checker and the CSS validator at w3.org. I will grade these using the developer tools link in Chrome.
- 12. Link in a Check Sheet page under your Help menu.
 - a. I will provide you with the layout for this page and you will fill in the table entries for whether or not each specific requirement was met and how to test them (unless it is obvious).
 - b. Style this page to be consistent with the rest of your site (color, font, heading, navigation, etc).
 - c. An additional penalty will be levied for any item that you say was tested successfully but does not work.
- 13. Publish your site to cisprod.clarion.edu for grading.
 - a. Don’t forget to include a redirection page in your public_html folder to send me to your home page.
 - b. Create a .zip file of your whole site and turn it in to the appropriate folder on D2L.

Extra Credit:

- 14. Integrate a chart using the javascript library at <http://www.highcharts.com/>
 - a. The chart should make some sense based on the theme of your site.