

CSC 170 Project 3: Multipage Website

Warning: Do not begin Project 3 unless your Project 2 is perfect (or as perfect as you can get it)

because any points you lost in Project 2 will also be lost in Project 3.

Due: June 25 (two weeks)

Note: there is very little flexibility in the due date because it's at the end of the semester. Do not push it any further than June 25. Only projects submitted on-time are guaranteed to be graded. Also, do not expect to have time to fix errors and get your project re-graded after the due date.

General and Global Requirements

In this a Project	ssignment, you will create a small website using your Project 2, and three other students'
,	
	Each original HTML document will be its own webpage in your website. (4 pages of content)
	You must try to maintain the integrity of each HTML document as-is. I.e., do <i>not</i> change the HTML documents by adding content, or moving content around much. ¹
	Try to use as much of the CSS you created in Project 2 as a starting point for Project 3. Your goal
	is to use all the original CSS you started with, and only add or tweak CSS as necessary.
	You will also create a new homepage that will serve as an entry point to all the other pages.
	(total of 5 pages)
	There must be a common (consistent) multicolumn layout on all pages except the homepage. ²
•	or responsibility to reach-out and obtain the original Project 1 documents (HTML and image om other students.
Valid	ation
	<u>Each</u> HTML document must pass validation using the WC3 Markup Validation Service at: http://validator.w3.org
	The CSS must pass validation using the WC3 CSS Validation Service at: http://jigsaw.w3.org/css-validator

¹ There are places where you have to add content – described later in this document. Also, it's okay to move content around to maintain consistency between pages. You may also remove internal navigation (if any), and resize or crop images as necessary.

² You may use a multicolumn layout on the homepage, but it's not required.



Responsive and/or Adaptive Design

no elements that overlap their borders:
Every page on the website must display properly on all devices with no horizontal scrolling and

- Mobile portrait (320x480)
- Small tablet portrait (600x800)
- o Tablet portrait (768x1024)
- Small desktop (1024x768)
- Large desktop (1200 and up)

Search Engine Optimized

- ☐ Every page must be optimized for search engines
 - Proper title tags (in the <head>)
 - o Proper semantic use of HTML elements
 - o Proper outline structure using H1, H2s, et cetera
 - Proper use descriptive text in all alt="" attributes in images
 - Descriptive text in all hyperlinks
- A sitemap.xml file must exist in the website's root (in the **/project3** folder)
- ☐ Google Analytics (the <script> from Google) must be installed on every webpage.

New Content That Goes on Each Webpage

Each pa	age in your website must have the following items in common: ³	
	A banner (in a <header> element)</header>	
	A main menu (in a <nav> element)</nav>	
	A footer (in a <footer> element)</footer>	
	The overall layout using one of the approved layout techniques ⁴ : inline-block; table-cell; or flex	
	A "container" to keep all content centered in the viewport and constrained in 960px or less.	
Title tags		
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J	Each <title> tag in</th><th>the five HIML</th><th>documents mu</th><th>ist conform to a</th><th>certain style.</th></tr></tbody></table></title>
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- o The home page must follow this pattern: <title>yourname, CSC 170 Project 3</title>
- The subpages must follow this pattern:

<title>pagetopic, yourname, CSC 170 Project 3</title> (where pagetopic matches the H1 of the current page⁵) (where yourname is your name)

³ "In common" means that these items must be identical on each page in the website.

⁴ Except the homepage. The homepage (index) does not need to have the same layout as the sub-pages.

⁵ If the H1 of the current page is very long, you can shorten it in the <title>; just try and capture the gist of the topic.



The Banner

The banner (header) typically has three parts: (#1) a logo, (#2) some big text, and (#3) some subtext, like a catch phrase.

- ☐ The banner must contain some large text that acts as the name for the website.
- You can have the name for the website be simply: your name, or something else if you're feeling creative.
- You can choose whether or not to design a logo. (It would be awesome if you did.) The logo can
 contain the large text which acts as the name of the website, or it can be separate from the
 large text.
- Here's an example of a combo-logo which also contains big text that acts as the name of the website:



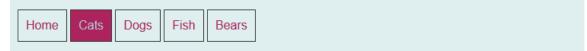
☐ You must include a catch phrase. If you're not feeling creative, at the very least, you can use this: CSC 170 - Web Design and Development

Banner Requirements

- ☐ The banner must be wrapped in a <header> tag.
- ☐ The name of the website (plus the logo if you use one) must be wrapped in an <h1>
- ☐ The <h1> (but not the catch phrase) must be wrapped in an anchor tag and linked to your homepage: index.html

Main Menu

- You must have a horizontal-style main menu (navigation), and links to each page in your website.
- ☐ The "current" page must be somehow styled differently to indicate that it's the current page
- Here is an example of a horizontal menu:



Notice how the current page ("Cats" in this example) is highlighted compared to the other menu items.

• No matter what page the user is looking at, the main menu must answer the following two questions: (#1) where am I now? (#2) Where can I go?



Main I	Menu HTML Requirements
	The main menu must be wrapped in a <nav> tag.</nav>
	The main menu must be coded as an unordered list.
	Each list item must contain an anchor tag that links to one of the other webpages in the website.
Foot	er
	The footer on each page must contain your name and "CSC 170 Webpage Design and
	Development"
	On each of the four sub-pages (all the pages except for the homepage: index), the footer must
	contain a link to the location of the Project 1 from where the content came from.
	You can add other content to the footer if you're feeling creative, but whatever it is, keep in
	mind that everything in the footer must appear the same on each page.
•	Ideas: in the footer, you can link to your Facebook page, Twitter account, whatever. You can
	also use a copyright like this: ©2015 your name. You can also insert a copy of the main menu in

Footer HTML Requirements

the footer.

☐ The footer must be wrapped in a <footer> tag.

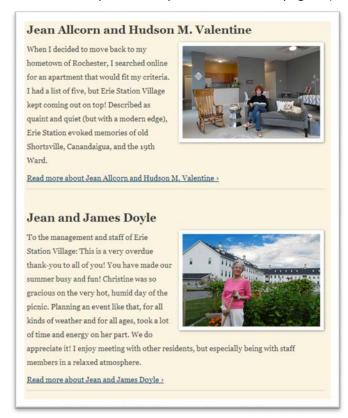
New Homepage

Homepage layout: You will create a new homepage (index) that will serve as an entry point to
the other four pages. It will have all the same common elements (header, nav, footer and
layout) as the other pages, except that it will have new content.
Homepage content: The new content of the homepage must be a summary of each of the
subpages: your original Project 1 document, plus the other Project 1 documents you are using.
You just need to write an excerpt OR maybe just use the first paragraph of each of the subpages
and make it part of your homepage. (You can use the first paragraph from any subpage only if
it's a really good overview of the page it's from. Otherwise, you need to put together your own
excerpts.)
Design: Each excerpt must clearly indicate that it's referring to a subpage, for example, each
should have its own heading and some other visual clues that tell the user that they're looking
at group of excerpts that each refer to some other section in the website.

• In addition to headings for each excerpt, include embedded links that are redundant with the main nav, that also link to the subpages in your website.



1. Here's an example of excerpts that lead to subpages. (Notice the text that says "Read more..."):



Note: using embedded images as shown in this example would be awesome, but not necessary.

Design considerations

It will be difficult imposing the new common elements (header, nav, footer, layout) on the previously written Project 1 documents. You will have to make *some* changes to them.

☐ In each Project 1 document, you can add, remove or change elements, and add or change classes as needed. However, you must not make "content" changes to any original document. You must try to maintain the original intent of each document from a content standpoint.

For example: you need to impose a new <header> element with its own <h1> on each subpage in your website. But each subpage had its own <h1> (and maybe a <header>). Now that these pages are becoming part of a bigger, multi-page website, you will have to demote each heading:

- <h1> will become <h2>
- <h2> becomes <h3>
- ...and so on

You have to figure out how to make minimal changes to each original HTML document, but still make them all work within the structure of your multipage website.



Suggested Workflow

Prepare your Project 2 HTML file

- 1. Start by creating a new/empty folder named project3
- 2. Make *a copy* of your entire Project 2.
- 3. Rename the Project 2 HTML file from index.html to something that describes its content (something like it's H1), e.g. mark-zuckerberg.html
- 4. In your copy of your Project 2 page, add the "common elements" described earlier in this document, restructuring the HTML as you go, as necessary.

Register your Project 3 website with Google Analytics

- 5. In Google Analytics (www.google.com/analytics), setup a new Google Analytics Account for your Project 3 site
 - The site will (eventually) reside at urcsc170.org/accountname/project3/index.html (where "accountname" is your Bluehost account name)
 - Find and copy the tracking code for your Project 3 Google Analytics Account.
- 6. Insert the tracking code for your Project 3 Google Analytics Account into the code of your HTML file.

Add the Other Project 1 files

- 7. When your copy of your Project 2 page is perfect make a copy of the HTML file. Name the file "start.html"
- 8. Hollow out the content the start.html file (not the common elements just the content).
- 9. Make three copies of your start.html file. Name them names that describes the content that will go in them (the content from the other students), e.g. alan-turning.html, tim-wu.html, and biz-stone.html.
- 10. Fix the common navigation links so they all work correctly.
- 11. Carefully copy HTML content from the other students' HTML pages. Be sure to *copy the code* from the other HTML files not the text from a web browser.
 - You will need to re-structure the other pages' outlines (the H1, H2s, et cetera) when you bring them over.
 - If you have a Project 1 that used its own internal navigation, you may remove it.
 - Other than those things, you need to use as much of the HTML from the other students without modification, as much as possible.

Build your Homepage

12. Make another copy of your start.html file. Name it **index.html** and fill it with the excerpts and links as described earlier in this document.



Generate a sitemap.xml File

13. Create a **sitemap.xml** file and insert it into the root of your website - in the **/project3** folder on

Location		
	Your multipage web site with image(s) and CSS must be mounted on the class webserver, where you'll create a new folder that must be exactly this: project3all lower case, spelled exactly like that.	
	The name of the homepage must be exactly this: index.html all lower case, spelled exactly like that.	
	Subpage filenames can be whatever makes sense for the current page, so long as they follow standard naming conventions for webpages: all lowercase. No spaces. Use hyphens to separate words. E.g. for a webpage titled: "Mark Zuckerberg, CEO of Facebook", you would use "mark-zuckerberg.html"	
	The image(s) you use must be in a subdirectory of the project3 folder, and the subdirectory must be named images	
	The external CSS file must be in a subdirectory of the project3 folder, and the subdirectory must be named css	
urcsc17	b browser (any), go to this address to check your handiwork: 70.org/accountname/project3/index.html "accountname" is your account name)	

⁶ You can use: **www.xml-sitemaps.com** to generate your sitemap.