CIS 3344 Lab 2 – Responsive Web Design

The goal of this assignment is to give you some experience working with HTML, CSS, and building a Responsive Web Design that allows the site to be displayed properly on multiple screens and devices. This assignment will involve implementing a "single-page design" where the page contains several "virtual pages" inside a single physical page.

Requirements:

1. Create an HTML page that uses the "Single Page Design" concept.
    a. This page will serve as small website consisting of four pages within the single physical page.
    b. Pick a theme for the content of this page and the several "virtual pages" that will be included in it.
    c. Each virtual page must contain a reasonable amount of content. Pages that contain very little content will not receive full credit.
    d. View the example at the end of this document.

2. Virtual Page 1 - Landing Page
    a. This virtual page will serve as the home page and provide the user with information regarding the website.

3. Virtual Page 2 - Informational Page
    a. This virtual page will serve as the information page containing the main content for the site.
    b. You must have 3 separate sections/areas of content. Each section/area must contain a title, an image, and some related written content.
        i. Desktop version – the page must display the sections side-by-side.
        ii. Mobile version – each section/area should be full width instead of side-by-side. For example, a page that contains multiple columns for a wide display must now have a single column display for narrow screens. See the class examples for a demonstration of this concept.

4. Virtual Page 3 - Form Page
    a. This virtual page will serve as a form to collect information from the user.
    b. The form questions must fit with the theme of the site.
    c. The form should be contained in a table that uses responsive web design.
    d. The form must contain at least 10 questions and use a variety of form controls (textbox, text area, checkboxes, radio group, select list, and the some newer HTML5 controls (see my lecture on HTML5).
    e. Some of the controls must be set as required (you will need to use the HTML5 required attribute).
    f. It must contain a submit button.

g. When the form is submitted, it must send the form data to your Temple email.
    i. The form tag's method attribute must be set to POST, and the action attribute must use the form processing script URL modified to use your email address.
    <form id="form1" method="post"
    action="http://cis-iis2.temple.edu/users/pascucci/cis3342/
    FormProcessor.aspx?mail=tua12345@temple.edu" >

5. Virtual Page 4 – Photo Gallery
    a. This virtual page will serve as the photo gallery that will contain 6 images related to the theme of the site. Also, include text captions that describe the images.
        i. Desktop version – the page must display 2 rows of 3 images side-by-side without using a table.
        ii. Mobile version – the images must take up the entire width and appear stacked on top of each other for narrow screens. See the class example for a demonstration of this concept.

6. Create an external stylesheet for the CSS and reference it in your HTML page.

7. Navigation System
    a. The navigation system must contain 4 links: one to your main site's home page created in lab 1 and a link to each virtual page (this requires the use of HTML links within a page)
    b. The navigation system must be visible at all times in the desktop version.
    c. The navigation system must be responsive for the mobile version like the collapsible versions I discussed in class.

8. Footer placed at the bottom of the page that includes your name and email.

9. Employ Responsive Web Design
    a. All virtual pages should be responsive. In other words, they should respond by re-ordering and/or resizing the content when the browser window is resized for the mobile and desktop screens.
    b. View the example provided at the end of this document.

10. Use Media Queries to style the page for desktop and mobile screens.

11. Redesign the website you created for Lab 1 so it also employs the Responsive Web Design techniques we learned.
    a. Do not republish this part until you receive a grade for Lab 1.
    b. You should publish the redesigned website from Lab 1 to a folder (i.e., Lab2) inside your website. You will need to create this folder inside website's root.

12. Remember to add a section to the labs.html page created in Lab 1 for this lab.
    a. Include a description of what you learned, what elements you liked/disliked, and a link to the page you created for Lab 2.

Submission:

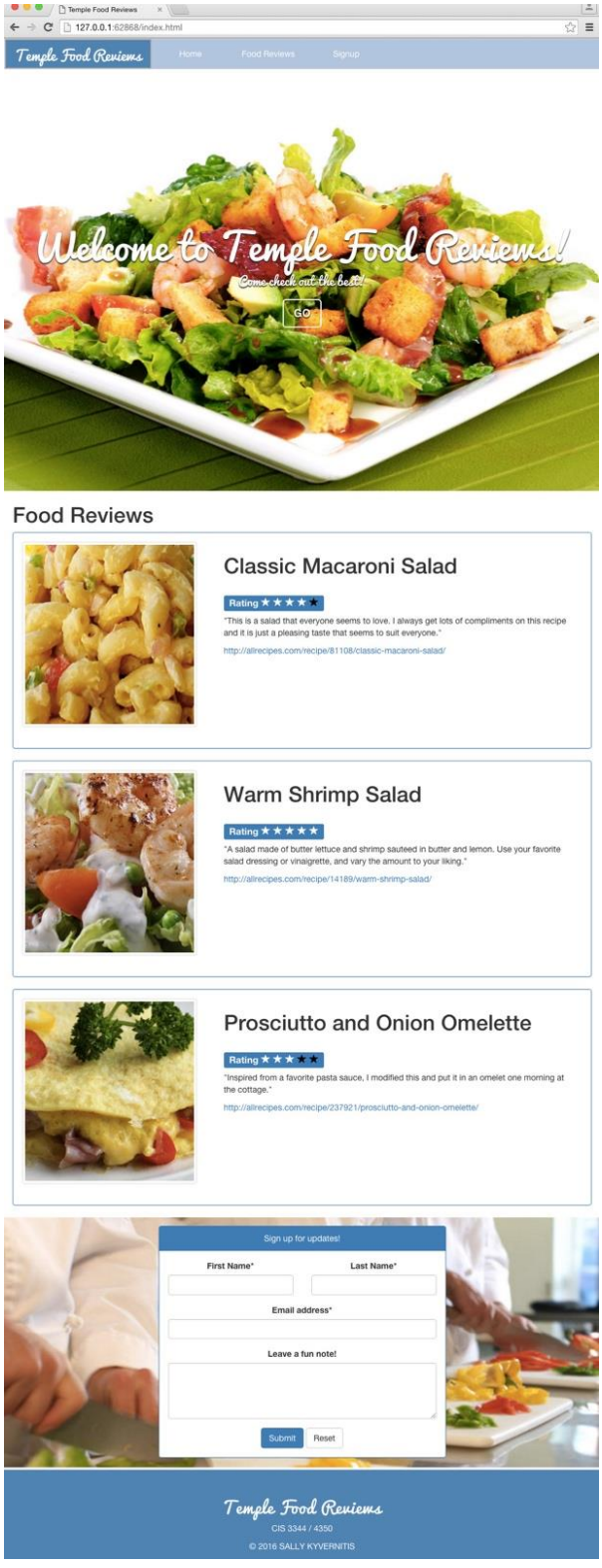
You need to publish your Web site to the cis-iis2 Web server, upload your code as a zip file containing your entire Web site to Canvas, and provide the URL to your home page. Make sure a current version of your Web site along with a backup copy is located in your G:\cis3344 folder. Assignments that are not submitted properly will not be graded.

The grade for the required elements is based on the published version of your Web site. This means the elements must work from the published Web site, not just the files submitted through Canvas. It's important to make sure your published Web site is the current version and that everything works. You should not publish to the Web server after the assignment has been submitted. Otherwise, it will be considered late or may not be accepted when it's passed the deadline. If you make changes to your Web site, you will need to republish and resubmit the project. Generally, you shouldn't publish or make changes until after you receive a grade.

You need to zip the entire Web site folder into a single zip file and submit the assignment in Canvas. To submit the assignment, you need to click the Assignment's Title "**Lab 2**" to view the submission form and upload the file.

Make sure you properly submit your assignment and that it works. Programs that don't run or don't contain all the necessary files will not be graded and marked late.

Desktop Site



Mobile Site