ISTE240 – Web and Mobile II
Individual Web Site Final Project

This project will be a "new and improved" version of your midterm project. Add to it the various technologies we've covered this semester, including style sheets, media queries, JavaScript, and PHP pages that connect to a database, including the page's header and footer portions and any other repeating code on your site. If you want to include other technologies you've learned on your own, that's fine, as long as you do all of the CSS, JavaScript, PHP, HTML and other requirements on your own!!! Also, note that your pages must show correctly in all the latest browsers!

Requirements

Specifically, you must include:

1. This project will be put on your solace.ist.rit.edu account. Do not modify the original files from your first project; instead, *copy them into a new directory* for this project named 'final' in your directory on solace.ist.rit.edu, then modify the copied version.

2. Every page must be built in parts (a header and a footer file will be included using PHP). There should be NO repeated code!

3. Site must be responsive. It should have media queries for at least three different widths (desktop, tablet, mobile). The change in CSS style should be purposeful and ensure good usability of the page.

4. Comments form

    1. Create a new PHP page (THIS SHOULD BE ON ITS OWN WEB PAGE!) called comments.php, which will have a form in it that will accept user input (at least a name and what comment they want to leave)

    2. Display previous comments beneath the form (the comments will be acquired from a database). Existing comments should display regardless of whether the user submits a new comment.

    3. There will be a JavaScript function that runs on *submit* of the form that validates all of the user input (and the form will NOT submit if the validation fails!).

    4. Once the form passes validation, you will pass the information on to a PHP page (this could be the same comments.php page) that takes the information, validates and sanitizes it, and adds it to a database (and the comments page will then show the old and new comments!).

    5. You *must use the MySQLi API* for all database calls.

5. An *original* JavaScript element

    1. Not one generated by a program or retrieved from an archive.

    2. NO Libraries – (jQuery, Mootools, Scriptaculous, etc).

3. This must be in addition to the form validation, above, and the DHTML element below.

4. This must not be a silly addition that makes no sense, like a clock!

6. A DHTML component you created.

1. The component selected should add some value to the page it's on; it should not be a silly addition to the site.

2. Something in the site should be animated to fulfill this DHTML requirement. Something should be moving! Probably, this means that you'll be using setTimeout().

3. Do NOT use a library for this element either.

4. You may combine the DHTML component with the JavaScript element from above. For example, you could create an image gallery that allows a user to toggle through images (which satisfies the requirements for #4 above) and when the images appear, they fade in (which satisfies the requirements for the DHTML component.).

7. You will add to your annotation file (about page) with descriptions of the above and locations of the additions. (For easier grading!) If you fail to add to the file, I might miss your additions and you will lose points.

8. Your about page should be structured like this:

1. Original JavaScript component:
2. DHTML component:
3. Extras:
    1. Extra 1:
    2. Extra 2:
    3. Extra 3:
    4. …

You WILL NOT receive credit for any of these components if they are not documented on your about page.

9. Your file structure must be appropriate (e.g. an 'assets' directory that contains 'css', 'scripts', 'media', etc).

10. All pages must validate

1. Validate the pages and post a link to the validation page on the about page

11. All pages must display well in the major browsers: Firefox, Chrome, Internet Explorer (8, 9,10, 11), and Safari.

12. Your site must be responsive for mobile devices, both in the layout and the menu!

13. Fix all that I took off points for in the first iteration.

Due Date (watch myCourses for exact date)

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Please upload ALL files to the dropbox (including any images, other media, CSS, etc). Don't forget to include the URL to your project in the dropbox comments.

Grading Rubric

Validation		
	All pages validate	8
	All pages display properly in all browsers	10
Design		
	Design principles (CRAP, color, etc)	4
	Organization/Navigation	4
	Corrections from the midterm project	5
Technology		
	Original JavaScript	8
	DHTML component	8
	Contact form; Comments saved to and pulled from database (insert and select)	12
	Form validation with JavaScript	10
	Form data validation and sanitization with PHP	10
	PHP includes on every page (header and footer)	6
	Responsive design; media queries	15
Extras – *Note! The extras listed here are not all worth the same amount of points!*		max 10
	Additional effects/features from a JavaScript library	
	Site architecture • Single entry page to site • Page data stored in database • User authentication	
	Extensive, non-gratuitous use of CSS3 animations	
	WYSIWYG editing	
	Spectacular design	
	Favicon	

	Captcha for the form submission	
	Surprise me!!	
Points Lost For:		
	Missing or incomplete *about* page	
	Repeated code	
	Poor file structure	
	Lack of comments	
	Poor coding technique	
	Using the traditional MySQL API (not using MySQL**i**)	
	Not zipping files before submitting or not including URL to project on nova	
	Using any libraries or frameworks (JQuery and Bootstrap!)	
Total		**100**

Other rules for Individual Project Part 2:

1. NO Bootstrap templates!!!
2. Comment the CSS file
3. Comment the HTML file
4. Cite the sources properly
5. DO Not use the default link styles
6. Menu items must be limited to 5-7
7. File organization
8. NO underlined text unless it is a link
9. Spelling and Grammar – check before submitting
10. PHP includes a must!!!
11. First page must be called index.php
12. Must have a map somewhere on the site
13. Optimize all pictures for the web
14. FIX EVERYTHING I TOOK OFF FOR ON THE FIRST ONE!