**George Mason University**

**IT 331, Introduction to Web Development I**

**Project #2**

**Before beginning this project, read the “Project Introduction” document located in the same folder for details on the project rules and submission.**

Your web development focus of this project will be on JavaScript.

**Project Requirements**

1. ~~5 web pages minimum, with a clear method of navigation between pages on your site.~~
2. Coding requirements:
   1. **Comments**: be sure to include detailed comments that "tell the story" of your code. A good guideline to follow is to (1) comment each variable as you declare it, noting its purpose; (2) comment each major structure (decision structures, looping structures, etc.), describing *why* you are using that structure.
   2. **Readability**: your source code should be easy to read and grade. To ensure this, be sure to use plenty of appropriate white space in your code and indent the lines of a structure's body.
3. Features (all features must be relevant to your Web site):
   1. Include at least 2 examples of JavaScript functions
   2. ~~Include at least 1 example of JavaScript arrays~~
   3. ~~Insert a button that opens a new browser window once clicked (by using the open() method); the new browser window may be of any size and display any relevant content.~~
   4. ~~Prompt user for his/her name on one of your pages: use the~~ *~~localStorage~~* ~~property to store the user’s name and display a personalized greeting containing the user’s name on the page. (The user is required to enter a name only during the first visit to the web page; on each subsequent visit, the script can display the user name that is stored in the~~ *~~localStorage~~* ~~property. The user should also be allowed to reset the name at any time. )~~
   5. ~~Display random images from a set of at least three, when one of the pages is loaded.~~
   6. ~~Show the last modified date and time on one of your pages.~~
   7. Do one other neat thing of your choice with JavaScript.
4. Validation:
5. ~~All pages in your web site must pass the validator with the use of an~~ **~~HTML5~~** ~~Doctype. This of course implies that the proper meta information (document type, character encoding information, etc.) is present in every page of your site. The use of a CSS validator is optional.~~
6. ~~Overall, your site needs to be easy to use, navigate, and understand. All pages of your site should be consistent in terms of color theme and fonts with the use of the external style sheet.~~

***Have Fun!***

## **Grading Criteria**

|  |  |
| --- | --- |
| Description | Points |
| **Fundamental Rules**   * The web site is hosted on the Mason cluster server * No violation of Copyright laws or Fair Use limitations * No copying, plagiarizing, or using any existing web page templates | 50 |
| **Description/documentation**   * Saved in an MS Word document * Includes the URL to your web site * Includes the file names of the pages that are included in the current site, and a short description of each page * Includes the file names of the pages that have been newly created or modified since last project * Includes a detailed explanation of how each requirement (as listed in the project specification document) is met AND where the associated feature/component locates * Includes an explanation of any special features (optional) | 10 |
| Project Requirement 1: 5 Minimum Pages | 2 |
| Project Requirement 2: Coding Requirements   * 2a; 2b | 3 |
| Project Requirement 3a: Functions | 3 |
| Project Requirement 3b: Arrays | 3 |
| Project Requirement 3c: Windows | 6 |
| Project Requirement 3d: Web Storage | 6 |
| Project Requirement 3e: Random Images | 6 |
| Project Requirement 3f: Last Modified | 2 |
| Project Requirement 3g: Neat Thing | 4 |
| Project Requirement 4: HTML Validation | 3 |
| **Overall**   * Navigation is intuitive and consistent; No broken links, buttons, or graphics * Color theme and fonts are consistent and appealing * Content and web site design show effort; Web site text is clearly written and free of spelling and grammatical errors. | 2 |
| TOTAL | **50** |