**George Mason University**

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

**Project #3**

**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 DOM, JavaScript events, and XML/JSON.

**Project Requirements**

1. ~~6 web pages minimum (including the XML file or the JSON file), 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 1 example of modifying page content dynamically. For example, users are allowed to dynamically create or delete page content such as an image, a heading on the page.~~
   2. ~~Include at least 1 example of changing the styles of page content dynamically. For example, users are allowed to dynamically change the styles of page content such as the background color, text size.~~
   3. ~~Add a rollover effect on some image or text using the~~ ***~~mouseover~~*** ~~and~~ ***~~mouseout~~*** ~~events.~~ **~~You must manually code this feature.~~**
   4. ~~Include a scripted animation that uses window’s~~ ***~~setInterval~~*** ~~and~~ ***~~clearInterval~~*** ~~methods (e.g., an image viewer with an animated growing effect).~~
   5. Create an XML or JSON file, and use Spry Data to link one of your pages to a Spry XML or JSON data set (based on the XML file or the JSON file) and display the data in one of the dynamic layouts (e.g., repeat list, table, master/detail region, etc).
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, plagiarism, 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: 6 Minimum Pages | 2 |
| Project Requirement 2: Coding Requirements   * 2a; 2b | 3 |
| Project Requirement 3a: Modifying Page Content Dynamically | 5 |
| Project Requirement 3b: Modifying Page Styles Dynamically | 5 |
| Project Requirement 3c: Rollover Effect | 5 |
| Project Requirement 3d: Scripted Animation | 5 |
| Project Requirement 3e: XML or JSON File & Spry Data | 10 |
| 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 shows effort; Web site text is clearly written and free of spelling and grammatical errors. | 2 |
| TOTAL | **50** |