**539 - Project 1**

**Goal:** You have been asked to create a Content Management System (CMS) and related web site for a local community newspaper.

Example: <http://www.ist.rit.edu/~bdf/539/project1/>

You will be updating this project throughout the quarter, so spend some time to make it look nice and meet the requirements.

**Requirements**

1. This site will consist of at least 3 PHP files: index.php, news.php, admin.php, and LIB\_project1.php
2. Each page will share common graphic elements, and will have a global navigation system that links to every other page. These common elements MUST be achieved through the use of functions or a template system. Points will be deducted if common code (html or php) is copied on more than one page.
3. These pages will be located in the student's: abc1234/www/539/Project1/ folder on gibson.
4. The site should have an attractive design.
5. Every page will include a “banner” area with the logo of the paper shall appear as well as a location to contain a rotating banner ad. This banner system will contain a list of filenames, the number of times displayed and a weighing in a file called “banners.txt”. These banner files will be located in their own subdirectory on the site. Every time a banner is displayed, its display number will be incremented and saved. Every banner should be rotated so that each is displayed the same number of times (see the “Extras” section for ideas for extra points regarding this). Hint: look at multisort function.
6. When planning your code and design, you need to make sure the site can be “re-arranged” without changing the content-generating script coding. You can achieve this in one of two ways:
   * Through the extensive use of <div id/class> tags and changing the order of creating the sections of the pages and CSS files OR
   * Through the use of a template system, where you read in the template file replacing placeholders with content (a different template would provide a different look for the same content) in conjunction with CSS files.
7. CSS (in external style sheets) should be used extensively.
8. The site will pass HTML5 validation.
9. index.php will have (in addition to the common elements described above):
   * A “Letter from the Editor” section
     1. Will include a recognizable photo of the student.
     2. A letter from the editor (the student). This letter will contain information about the purpose of the paper and the editorial philosophy of the paper. (Make it up needs to be at least 2 paragraphs).
   * The latest 3 news items (see news.php below)
   * Detailed information about the visitor's browser - surprise us.
   * The editorial portion of this page is coded in an external text file called editorial.txt and is loaded in via file\_get\_contents()
10. news.php will have:
    * News postings that include a subject, content, and a timestamp
    * There will be a minimum of 11 news postings total to view
    * The user will view these news postings 5 at a time.
    * There will be links that allow the user to go to the next or previous page of news postings as applicable. There will be validation of the page navigation so that if the requested page is beyond the limits, it will display either the first or last page.
    * The postings are loaded dynamically from an external text file called news.txt. This is likely done using the file() function.
11. admin.php will have:
    * A form to update the editorial information on index.php (which is stored in editorial.txt)
    * A form to add news postings - a subject, content, and date (automatically inserted)
    * A password field. No posting/update should happen without a match.
    * All input will be validated and sanitized as appropriate based on the information in the field.
    * The method of the form(s) will be POST.
12. LIB\_project1.php will contain most of your application code:
    * The code in this file will be structured as reusable functions that will be called by the other pages.
    * Copious comments will describe the inputs, outputs, and purpose of each function.
    * You should create functions that go beyond what we did in class.
    * This file will be included (or required) by the other pages.
13. Just in case: create backups of editorial.txt and news.txt when you have completed the site.
14. You may elect to have additional pages.

**Grading**

**Doing the above well will result in a grade of 85. See the gradesheet for extra items to achieve a higher grade. Include a description of extras included in comment area of dropbox. Include a link to your project in the dropbox.**

***Due: week 5, night of Day 1 @ 11:59PM***

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| **Pass HTML 5 validation** | **3** |  |
| **Has minimum required pages (index/news/admin and library) in the correct directory** | **3** |  |
| **CSS in external file** | **3** |  |
| **Site structured so that using a template system or changing**  **order of calls to functions will change structure/display of content** | **7** |  |
| **Attractive design, navigation items – common among all pages without duplicating code** | **5** |  |
| **Banner area functioning as described** | **5** |  |
| **index.php** |  |  |
| Recognizable Picture | **1** |  |
| Editorial section – content and pulled from file | **5** |  |
| Latest 3 news items – pulled from file | **5** |  |
| Detailed information on visitor | **2** |  |
| **news.php** |  |  |
| News postings that include a subject, content, and a timestamp | **2** |  |
| There will be a minimum of 11 news postings total to view | **2** |  |
| The user will view these news postings 5 at a time. | **3** |  |
| There will be links that allow the user to go to the next or previous page of news postings as applicable with selected page number validation | **4** |  |
| The postings are loaded dynamically from an external text file called news.txt. This is likely done using the file() function. | **3** |  |
| **admin.php** |  |  |
| A form to update the editorial information on index.php (which is stored in editorial.txt) | **2.5** |  |
| A form to add news postings - a subject, content, and date (automatically inserted) | **2.5** |  |
| A password field. No posting/update should happen without a match. | **3** |  |
| All input will be validated and sanitized as appropriate based on the information in the field. | **7** |  |
| The method of the form(s) will be POST. | **2** |  |
| **LIB\_project1.php** |  |  |
| The code in this file will be structured as reusable functions that will be called by the other pages. | **7** |  |
| Copious comments will describe the inputs, outputs, and purpose of each function. | **5** |  |
| This file will be included/required by the other pages. | **3** |  |
| **SUBTOTAL** | **87** |  |
| **Component** | **Possible Points** | **Points Achieved** |
| **Pass HTML 5 validation** | **5** |  |
| **Has minimum required pages (index/news/admin and library) in the correct directory** | **3** |  |
| **CSS in external file** | **3** |  |
| **Site structured so that using a template system or changing**  **order of calls to functions will change structure/display of content** | **7** |  |
| **Attractive design, navigation items – common among all pages without duplicating code** | **5** |  |
| **Banner area functioning as described** | **5** |  |
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| The user will view these news postings 5 at a time. | **3** |  |
| There will be links that allow the user to go to the next or previous page of news postings as applicable. | **2** |  |
| The postings are loaded dynamically from an external text file called news.txt. This is likely done using the file() function. | **3** |  |
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| A form to add news postings - a subject, content, and date (automatically inserted) | **2.5** |  |
| A password field. No posting/update should happen without a match. | **3** |  |
| All input will be validated and sanitized as appropriate based on the information in the field. | **7** |  |
| The method of the form(s) will be POST. | **2** |  |
| **LIB\_project1.php** |  |  |
| The code in this file will be structured as reusable functions that will be called by the other pages. | **7** |  |
| Copious comments will describe the inputs, outputs, and purpose of each function. | **5** |  |
| This file will be included/required by the other pages. | **3** |  |
| **SUBTOTAL** | **85** |  |
| **Component** | **Possible Points** | **Points Achieved** |
| **Pass HTML 5 validation** | **5** |  |
| **Has minimum required pages (index/news/admin and library) in the correct directory** | **3** |  |
| **CSS in external file** | **3** |  |
| **Site structured so that using a template system or changing**  **order of calls to functions will change structure/display of content** | **7** |  |
| **Attractive design, navigation items – common among all pages without duplicating code** | **5** |  |
| **Banner area functioning as described** | **5** |  |
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| Editorial section – content and pulled from file | **5** |  |
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| The user will view these news postings 5 at a time. | **3** |  |
| There will be links that allow the user to go to the next or previous page of news postings as applicable. | **2** |  |
| The postings are loaded dynamically from an external text file called news.txt. This is likely done using the file() function. | **3** |  |
| **admin.php** |  |  |
| A form to update the editorial information on index.php (which is stored in editorial.txt) | **2.5** |  |
| A form to add news postings - a subject, content, and date (automatically inserted) | **2.5** |  |
| A password field. No posting/update should happen without a match. | **3** |  |
| All input will be validated and sanitized as appropriate based on the information in the field. | **7** |  |
| The method of the form(s) will be POST. | **2** |  |
| **LIB\_project1.php** |  |  |
| The code in this file will be structured as reusable functions that will be called by the other pages. | **7** |  |
| Copious comments will describe the inputs, outputs, and purpose of each function. | **5** |  |
| This file will be included/required by the other pages. | **3** |  |
| **SUBTOTAL** | **85** |  |

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| **Extras** | **Possible**  **Points** | **Points**  **Achieved** |
| Contact Us Form | **3** |  |
| Mobile version – with separate css, navigation link and possibly automatic detection based on user agent with link to full version if desired. | **10** |  |
| Allow user to choose number of news items per page with navigation adjusted accordingly | **5** |  |
| Meaningful news items | **5** |  |
| Design/Navigation Extras | **5** |  |
| Advertisements page with associated admin section (like news.php) including separate file and content | **15** |  |
| Banner maintenance section on admin.php | **7** |  |
| WYSWIG editor for text areas | **5** |  |
| The banners will be displayed in order based on some weighting system (eg. banners with a weight of 1 will be displayed twice as many times as a weight of 2 and all banners of the same weight will be displayed the same number of times). | **5** |  |
|  |  |  |
| **Extra Points Earned:** |  |  |
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| **Grade Earned (maximum : 100 points)** | **100** |  |