

Source Files: ~/public_html/index.php
~/public_html/resume.(html or pdf)
Value: 3

A distinguishing characteristic of the Internet is that it provides an inexpensive and widely accessible medium for publishing information. Prior to the Internet, the ability to disseminate information was available only to professional journalists through traditional outlets of television, books, magazines, etc. For this assignment, you will create a home page and publish it.

You will need to do the following:

- Your home directory needs to be world searchable. Check the permissions on your home directory with a command such as `ls -ld ~yourid`. For example, user `newuser`'s home directory has permissions

```
1 newuser@csunix ~> ls -ld ~newuser
2 drwx-----x. 52 newuser students 4096 Jun  1 10:13 /home/newuser
```

In the output shown above, the permissions are located in the leftmost column. The initial 'd' indicates a directory. The next nine characters indicate the permissions for the **user**, **group**, and **other (world)**. Each set of permissions consists of three positions: the first is used to indicate read privileges, the second write, and the third execute. Each set of permissions is thought of as an octal triple; thus, the read privilege has value four (4), the write two (2), and execute one (1). The user's (owner's) privileges are first, the group's second, and other's last. Thus, for user `newuser` the permissions could be expressed as 701, meaning the user `newuser` (the owner) has read, write, and execute permissions on the home directory, the group `students` has no permissions, and other (the world) has only execute permission. When a directory has execute permission, it is said to be searchable. Your home directory needs to be 701. If it is not set appropriately, use a command such as `chmod 701 ~yourid` to change them.

- Create a directory called `public_html` immediately below your home directory. This directory should be readable, writable, and searchable by you (the user). This directory should be readable and searchable for group `apache`, since our web server runs as user `apache`, group `apache`. Consider the sequence of commands shown below

```
1 newuser@csunix ~> mkdir public_html
2 newuser@csunix ~> ls -ld public_html/
3 drwxr-xr-x. 2 newuser students 6 Jun  1 10:40 public_html/
4 newuser@csunix ~> chmod 700 public_html/
5 newuser@csunix ~> ls -ld public_html/
6 drwx-----. 2 newuser students 6 Jun  1 10:40 public_html/
7 newuser@csunix ~> setfacl -m g:apache:rx public_html/
8 newuser@csunix ~> getfacl public_html/
9 # file: public_html/
10 # owner: newuser
11 # group: students
12 user::rwx
13 group:---
14 group:apache:r-x
15 mask::r-x
16 other:---
```

- Create a home page. This page needs to be saved in a file named `index.php`. The file should reside in the `public_html` directory. A sample file that could be used as a starting point for this assignment can be found at

`https://www.cs.angelo.edu/~mmotl/4312/labs/01/`

- Your page should include a couple of paragraphs of information about yourself. Be truthful. Include at least two images of your own. Use the `img` to place an image on your page. An example `img` tag is shown in the sample starting point document referenced above.
- Include a section about one of your hobbies. Provide a link to an external source that you regularly peruse for information about your hobby. You will want to use an anchor (`a`) tag to create the link. An example anchor tag is shown in the sample starting point document referenced above.
- Create an electronic résumé which includes a picture of yourself. Include your name and contact information as well as your education, work experience, recreational activities, and skills. Store the résumé in a file whose name is `resume.html`. Instead of creating as an HTML file, you may instead create your résumé in a word processing application and then save as a PDF, say `resume.pdf`. Finally, create a link from your home page to your résumé.
- To view your home page, use the URL

`https://www.cs.angelo.edu/~yourid/`

For example, to view user `newuser`'s home page, use the URL

`https://www.cs.angelo.edu/~newuser/`

The instructor's home page is at the URL

`https://www.cs.angelo.edu/~mmotl/`

- Reminder: Most browsers allow you to view the source code of any web page by clicking the right mouse button and then selecting the appropriate option.
- If you use any PHP code blocks, it's always a good idea to check for syntax errors. You can do this by using the `-l` option to the `php` command at the command line as in

```
1 newuser@csunix ~/public_html> php -l index.php
2 No syntax errors detected in index.php
```

- For all assignments, you need to place the HTML code through a validator. The validator is discussed near the top of p. 6 and in Appendix A on pp. 629–631. By including the following link and image, a user will be able to click the image and receive a report from the validator for the current page.

```
1 <?php
2 $location = 'https://' . $_SERVER['HTTP_HOST'] . $_SERVER['REQUEST_URI'];
3 $location = urlencode($location);
4 echo '<a href="https://validator.w3.org/nu/?doc=' . $location . '>';
5 ?>
6 
8 </a>
```

- You do not need to turn in anything for this assignment. After the due date has passed, I will use a browser and navigate to your home page to check your work.