

You should save/rename this document using the naming convention HWX-MUId.docx (example: HW3-johnsok9.docx).

Objective: The objective of this exercise is to:

1. Learn and practice the basics of HTML
2. Protect your website

Submit: screenshots, your html file and a link to your web page

You **may** discuss the concepts with your fellow students

You **may not** show or share code with your fellow students

You **may not** show or share code with internet sources

You **may** discuss this with your instructor or TA.

Name:

Part #1: HTML Tutorial

Estimated time: 30 minutes

Exercise:

Use w3schools to review/learn html basic commands

<https://w3schools.com/html/default.asp>

1. Review the tutorial from HTML Introduction → HTML Classes
2. Make 3 screen shots showing progress
3. No need to do exercises – just go through it

OR: Write a paragraph as to why you are already an HTML expert, using fully developed sentences and examples.

Part #2: Simple Web Page

Estimated time: 30 minutes

Exercise:

Create a basic HTML page (`~/public_html/cse383/lab3/index.html`) that includes the following elements:

Note: make this using your Linux editor (nano or vim). This is a time to create a web page without using interactive tools

- A simple, single page, story that has 3 "chapters"
- The top of the document
 - This means you should use an H1 header tag for the title of the book.
 - The H1 should have a table of contents underneath it for each chapter, made by using an unordered list
- Each Chapter
 - Starts with an H2 with the title of the chapter
 - Some text about any suitable topic (using paragraph `<p>`)
 - Each chapter should have an image that is stored on `ceclnx01`
 - Get the image and put it in your lab3 directory
- Footer at the bottom of the page
 - There should be a "footer" at the bottom that has the assignment details including name, date, course....

These files (`index.html` and all images) must be on `ceclnx01` and must be in your directory `~/public_html/cse383/lab3`

I should be able to access the files at
`https://ceclnx01.cec.miamioh.edu/~ID/cse383/lab3`

Use this link to verify that your path and naming convention is correct: <http://ceclnx01.cec.miamioh.edu/~johnsok9/cse383/lab3check.php> ([Links to an external site.](#))

Note: this will show the web page text - but not the images

Part #3: Validate Web Page

Estimated time: 10minutes

Exercise:

Use the W3c validator at <https://validator.w3.org/>

- Your html file must either pass all validation or explain in the comments why it doesn't
- **Complete this BEFORE starting part #4**
- **You may also copy/paste the code for validation**

Part #4: Protect web directory*Estimated time: 10 minutes***Exercise:** Create basic access control on your web site

1. Create password file
 - a. `htpasswd -c ~/.htpasswd USERNAME` (make up your own username, I might use kurt for example)
 - b. Enter the password
 - c. Re-enter the password
2. Create the apache access control file (requires anyone accessing the website to need the password, except for me to grade)

`cd ~/public_html/cse383`
edit/create `.htaccess` and store the following (replace bolded MUID with your own unique id) (use vim or nano)

```
#Protect Directory
#password protect excluding specific ip
AuthName "Username and password required"
AuthUserFile /home/MUID/.htpasswd
AuthType Basic
Require valid-user
Order Deny,Allow
Deny from all
Allow from 184.58.68.186
Allow from validator.w3.org
Satisfy Any
```

Set permissions on the files from the command line after editing by typing:
`Chmod 644 .htaccess ~/.htpasswd`

Verify the permissions by doing an `ls` command with a screen grab

```
ls -l .htaccess ~/.htpasswd
```

SUBMIT:

- Screenshot (note web screenshots must show the URL)
 - Attach a screenshot showing w3schools tutorial (not exercises) completion
 - OR your expert paragraph
 - Attach a screenshot of your web page showing password request
 - If you did this, entered a password and forgot to do it, then just close chrome (all tabs) and restart – should ask you for password
 - Attach a screenshot of your completed web page
 - Attach a screenshot showing file permissions correct
 - Attach a screen shot of the passing [w3c validator \(Links to an external site.\)](#)
- File
 - Attach the html file
- Link
 - Add the link to the web page in the text area