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| **You should save/rename this document using the naming convention LabX-MUid.docx (example: Lab3-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** show or share code with your fellow students  You **may** discuss this with your instructor or TA. |

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| **Name:** | **Andrew Boothe** |

# Part #1: HTML Tutorial

*Estimated time: 30 minutes*

**Exercise:**

Use w3schools to review/learn html basic commands

[**https://w3schools.com/html/default.asp**](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.

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# 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

**You may NOT use an IDE to make this web page - you MUST use vim or nano while working on ceclnx01**

* Write the web page on your own topic
* It must include the following elements
  + A title (using <title>)
  + Chapter 1 – use H1 to start a chapter
    - Numbered list of your favorite three websites
    - Explain why it’s your favorite in a paragraph (<p>)
    - Add at least one picture (make the width 200px)
  + Chapter 2
    - Bullet list of your favorite six things (hobbies, music, etc)
    - Explain why you like these in a paragraph (<p>)
    - Add at least two pictures (height 100px)
  + Chapter 3
    - Examples of different typestyles
    - Paragraph in Bold
    - Paragraph in Italics
    - Lines in Header1 – Header 6 (h1, h2, h3, h4, h5, H6)
    - Create a link which shows the words “Google Search” and links to

https://www.google.com/search?q=Miami+University+Oxford+Ohio

* + - * Test the link
  + Footer at the bottom of the page
    - There should be a "footer" at the bottom that has the assignment details including your 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.)](http://ceclnx01.cec.miamioh.edu/~johnsok9/cse383/lab3check.php)

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

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# Part #3: Validate Web Page

*Estimated time: 10minutes*

**Exercise:**

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

* **Your html file must pass all validation!**
* **Complete this BEFORE starting part #4**
* Graphical user interface, text, application, email

  Description automatically generated**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
   1. htpasswd -c ~/.htpasswd USERNAME (make up your own username, I might use kurt for example)
   2. Enter the password
   3. 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

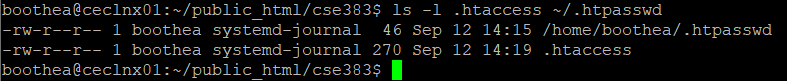
Satisfy Any

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.)](https://validator.w3.org/)
* File
  + Attach the html file
* Link
  + Add the link to the web page in the text area

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