CSCI 3308 Software Development Methods and Tools

Spring 2019

Homework 1: HTML, CSS, Bootstrap

Due Date: 11:59 p.m. on Thursday, February 28, 2018

Objectives

● Create a HTML page with different HTML elements

● Understand basic elements in Bootstrap

● Use Bootstrap to create a simple and beautiful form

** Note: Some images were too big to fit in the document. For all such images, we've created a hyperlink that you can click and it'll show the image in the browser. Please make sure you refer them when needed.

Part 1: HTML Web Page

Motivation: HTML and CSS are popular programming languages for building websites. In this part we'll introduce you to HTML code and it's structure and you'll be tasked to build your own Professional Profile.

Recommended tutorial before you begin: https://www.w3schools.com/html/

Step 1: Create a simple HTML document by placing the below content in a file and name it mypage.html:

```
<!DOCTYPE html>
<html>
   <head>
      <title>Page Title</title>
   </head>
   <body>
      <h1>My First Heading</h1>
      <p>My first paragraph.</p>
   </body>
</html>
```

** Open mypage.html with any web browser to view the output.

Step 2: Complete the following:
● Rename <u>title</u> in the HTML document (mypage.html) to About Me
● Rename <u>header1(h1)</u> in the HTML document to your Last Name, First Name
● Between the <u>paragraph(p)</u> tags, write three interesting facts about yourself and explain why you are studying Computer Science

Step 3: Create the following in order:
1. Create header2 and name it My Professional Profile
2. Underneath header2, create a link tag that points to your Github account
3. Insert an image of yourself, or any picture that can be found online (Keep in mind that any image URLs has to be public else it cannot be seen.)
4. Limit the size of your image using width and height, it should be between 500 and 700
5. Give the image a value, this is especially useful when the image cannot be displayed
6. Create header3 and name it My Favorite Projects
7. Create a table with 3 rows and 2 columns: Name of the Project, Technologies Used
8. Create header3 and name it Countries Travelled
9. Create an unordered list and list all the countries/places that you've travelled to
10. Create header3 and name it My Interests
11. Create an ordered list and list 3 things that you're most interested in
12. Insert appropriate spacing using <br> between content

** Feel free to add more stuff that you learn online

Your final output:

Torvalds, Linus

I am a Finnish-Ameriica Software Engineer who created Linux and Git. You guys probably hate me right now for building these tools but give it some time and you'll understand why they are very important!

My Professional Profile

[Linus's Github](#)

My Favorite Projects

Name of the Project	Technologies used
Linux	C
Git	C, Shell, Perl, Tcl, Python
Chrome OS	C, C++

Countries Travelled

1. Australia
2. England
3. France
4. Germany

Interests

- Coding
- Music
- Investing

Part 2: Bootstrap

The above HTML doesn't look very nice, does it? So let us try to beautify it slightly by using Bootstrap.

Bootstrap tutorial can be found here.

You will be required to understand how to incorporate Bootstrap into your HTML files.
Step 0 :
Create a new HTML file called mypage_bootstrap.HTML. Copy the code from part 1 into this file and save it.

Step 1:
Learn how to incorporate bootstrap into your HTML. (Hint: You will need to add some code in the <Head></Head> of your HTML).

Please use CDN's for including bootstrap in your files. This tutorial has a Bootstrap 4 CDN section to help you set that up.

Step 2:
Use the **container** class for the header and use the **Bootstrap heading options** to get the following look for the heading.

Torvalds, Linus - Software Development Tools and Methods

Step 3:
Use the **cards** class from Bootstrap to format the description as below:

I am a Finnish-Ameriica Software Engineer who created Linux and Git. You guys probably hate me right now for building these tools but give it some time and you'll understand why they are very important!

Step 4:

Change the GitHub link to a nice looking button using the **buttons** class in Bootstrap as below.

Linus's Github

Step 5:

Display the image in a circle.

Step 6:
Use Bootstrap Table to make your favourite projects table more aesthetic. (Refer final image for example)
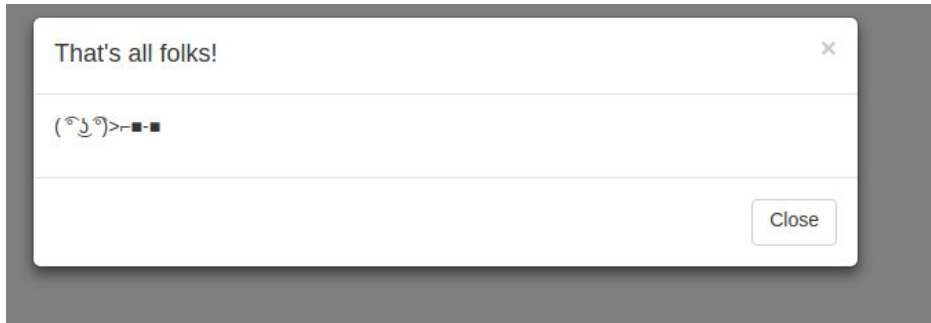
Step 7:

Change the lists of your "Countries travelled" and "Interests" into **collapsible panels** and have them stacked next to each other using Bootstrap grid system. Here's an example of Bootstrap Collapse that we found online.
Step 8:

Create a bootstrap **Modal**. Here's an example of Bootstrap Modal that we found online.

When clicked on the Modal a pop up alert appears. Give that alert a heading and some text as below.

Refer final images for example final webpage.

[Example1](#)

[Example2](#)

[Example3](#)

Part3: Bootstrap and HTML

Step 0:

Create an HTML file and name it form.html. Include your HTML code in it.

Step 1:

Combine what you have learned from Bootstrap and HTML and produce the following:

This is a sample form.

Nickname

Enter Nickname

Email address

Enter email

Password

Password

Gender

- ⦿ Male
- ○ Female
- ○ Other
- ○ Prefer not to say

Security Question

What is your favorite type of pet	◆

Answer

Security Answer

Favorite Programming Languages

☐ C/ C++ ☐ Java ☐ Javascript ☐ Python ☐ GO ☐ C# ☐ PHP

Additional Information

About Me

Submit

** Notice that Password should not be displayed in clear text (there's a special html type for passwords)

** Notice the dropdown menu

This is a sample form.

Nickname

Enter Nickname

Email address

Enter email

Password

Password

Gender

◉ Male
○ Female
○ Other
○ Prefer not to say

Security Question

✓ What is your favorite type of pet
What is your favorite ride sharing service
Where do you want to work after you finish your education

Security Answer

Favorite Programming Languages

☐C/ C++ ☐Java ☐Javascript ☐Python ☐GO ☐C# ☐PHP

Additional Information

About Me

Submit

Submission Criteria:

Zip the following files and submit them through Moodle:
- mypage.html
- mypage_bootstrap.html
- form.html

Write your name and your partner's (if any) on the first line of each file a