



**CSCI 202 - Dynamic Web Pages**

**Winter 2019**

**Laboratory 1**

**Objectives**

1. Set up **myweb** folder and subfolders
2. Create the Home page: index.html
3. Create the Rooms page: rooms.html
4. Modify the Home page with the external style sheet.
5. Modify the Rooms page to be consistent with the Home page.

You are welcome to use your book as a resource as well as online lectures. Feel free to email your TA or instructor if you have questions about the lab.

**READ ALL THE INSTRUCTIONS CAREFULLY.**

**Task 1:** Set up a **myweb** folder, a **CS202** subfolder and a security folder. All of your published web pages MUST be contained in your **myweb** folder.

**Steps:**

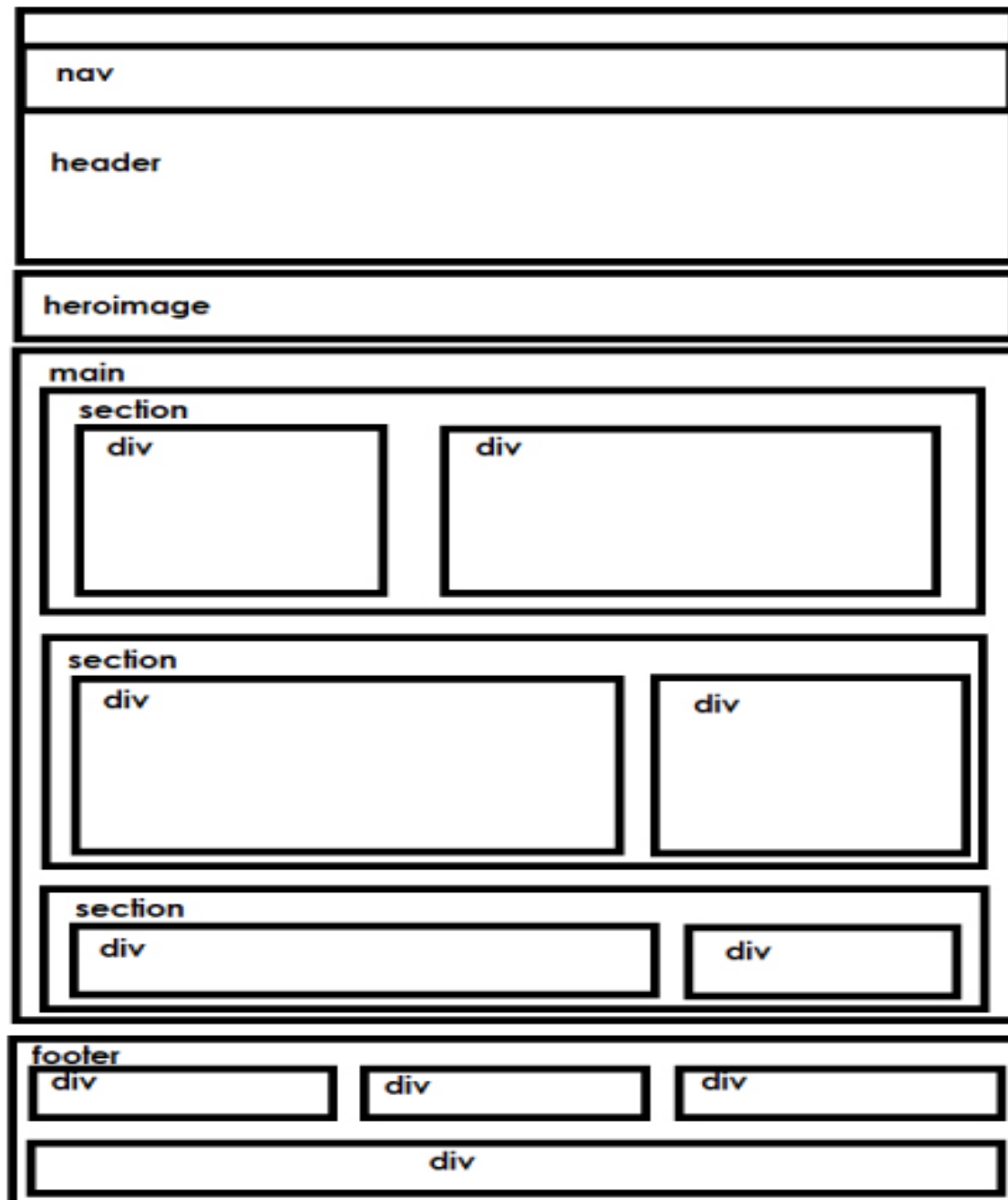
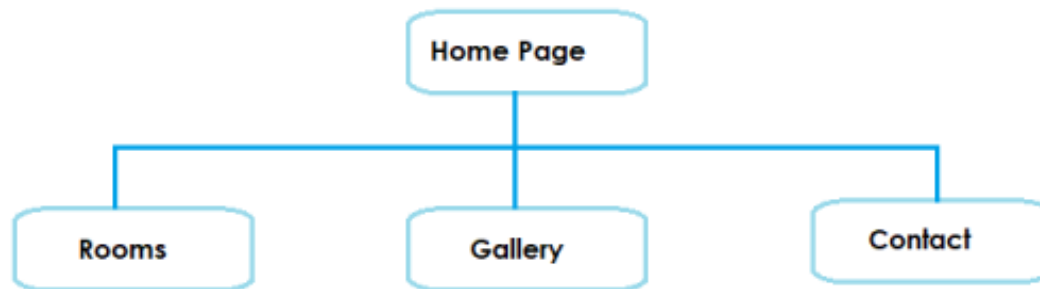
- a. Log-in to a lab machine using your Western Universal ID and password.
- b. From the START menu, open a file folder. This should pop up a window with two panes. The left pane displays the computer storage areas (drives) and possibly some folders or files (mydocuments, library, etc). The right pane shows you the contents of any drive or folder that is selected in the left pane.
- c. In the left pane, locate and select (by left-clicking) your U: drive.
  - The **U: drive** is directly connected to your Western Universal ID and can be accessed by any ATUS computer on campus
  - All of your web pages will be published through your U: drive.

- d.** Try to locate and select the **myweb** folder.
- If there is no **myweb** folder in your **U: drive**, then you will need to create one.
- e.** Create a **CS202** subfolder.
- Select the **myweb** folder
  - Create a new folder using the directions above: **File** → **New** → **Folder**
  - Name the new folder **CS202**
- f.** The path to your CS202 folder is **U:/myweb/CS202**
- g.** For added security, create a subfolder in your CS202 folder using the instructions for creating a new folder. You can choose the name of this subfolder, but it should be something unique and easy to remember. For example, your pet's name or a character in your favorite TV show.
- Say your folder's name is NightRider, then the path to your secret folder is **U:/myweb/CS202/NightRider**
- h.** All of your work for this course must be saved in the folders you've set up, but you may want to save a backup of your work by emailing files to yourself or copying your files to a thumb drive.

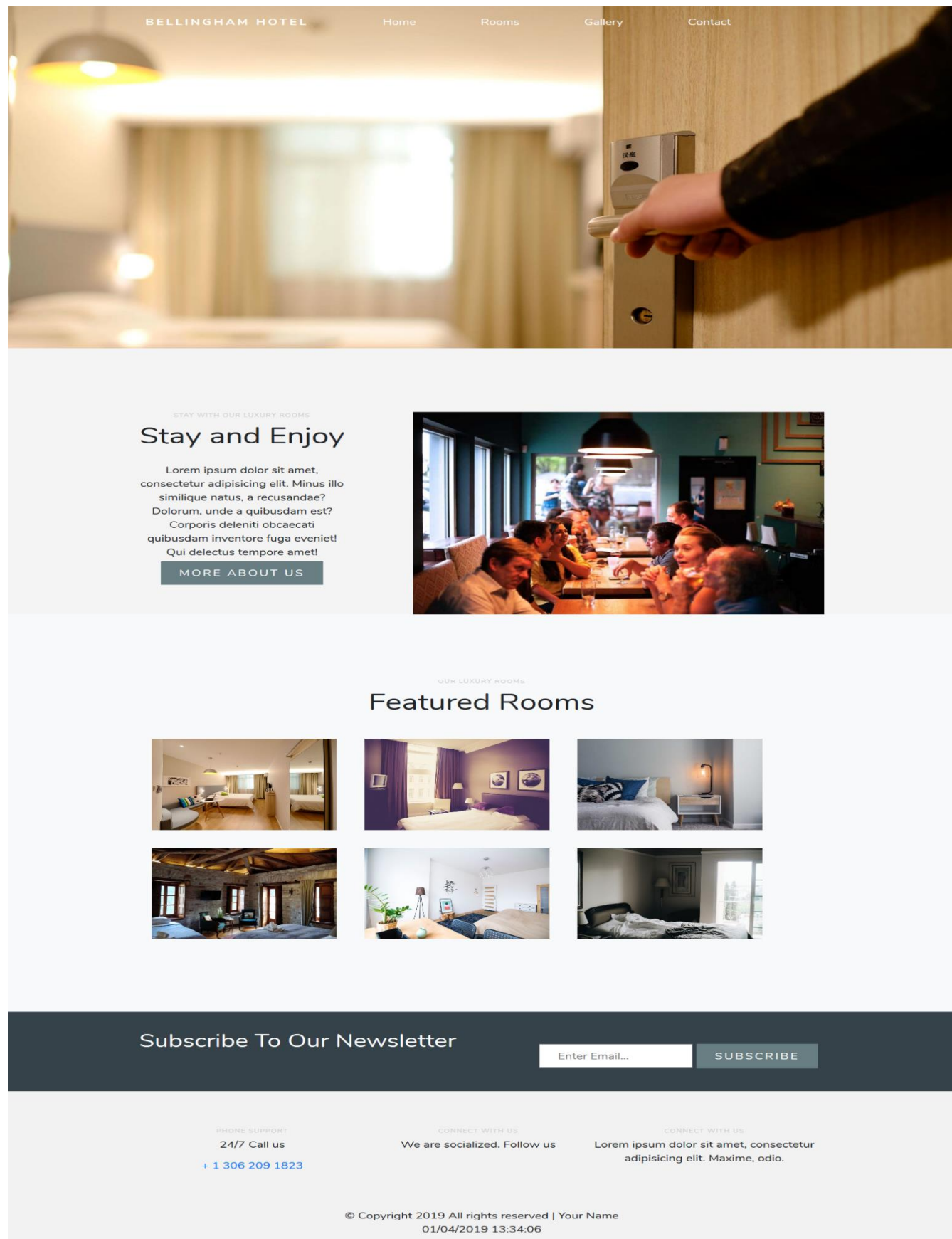
**Note:** Your TA and your instructor will not have access to your work if it is not saved in the **myweb** folder.

**Use the website case study to create your first web page.**

- a. Create a Lab1 folder inside your secret folder. We'll save the web page in the folder. Open Visual Studio Code from the Start menu. You may need to do a search for the program it is not listed as a commonly used program.
- b. Select File and then New to generate a blank template.
- c. To save your file in the appropriate folder select File then Save As
- Save the file as index.html



**Task 2: THE HOME PAGE.** Create the Home page shown in the figure below.



Launch Visual Studio Code, and create a web page with the following specifications:

- 1. Starter template.** Copy the Starter template from <https://getbootstrap.com/docs/4.1/getting-started/introduction/> and paste in your Visual Studio Code.
- 2. Web Page Title.** Bellingham Hotel.
- 3. Wireframe Header.** Code the header element. Code a div within the header with a class named *container*. Code the logo in a div with class named *Logo* and around Bellingham Hotel. Place the nav element within the header.
- 4. Wireframe Banner.** Code the banner with a section tag with class named *heroimage*. Code a div with class named *clearfix*.
- 5. Wireframe Main Content.** Code the main page within a main element. Code in order a div with class named *container*.
  - a. Sideleft div.** Place a div with class named *sideleft*, code an h4 with class named *sub-heading* an h2 with class named *heading*.
    - i. Code the following text within the h4 element:  
STAY WITH OUR LUXURY ROOMS
    - ii. Code the following text within the h2 element:  
Stay and Enjoy
    - iii. Code the following text within the p element:  
Lorem ipsum dolor sit amet, consectetur adipisicing elit. Minus illo similique natus, a recusandae? Dolorum, unde a quibusdam est? Corporis deleniti obcaecati quibusdam inventore fuga eveniet! Qui delectus tempore amet!
    - iv. Code the following in an anchor tag within the another p element with a class named *button*  
More about us
  - b. Sideright div.** Place a div with class named *sideright* after *sideleft*
    - i. Configure an image (*img\_7.jpg*) within the div sideright with an attribute width of 100% and an alt text Read More Image.
    - ii. Code a div with class named *clearfix*, after closing the container div and section element.
  - c. Section tag.** Code a section element with two class names *main-padding* and *bg-color*. Code a div with class named *container*. Configure two divs within the *container* with class names *feature* and *feature-image*.

- i. Configure an h4 element with class named sub-heading and h2 element with class named heading.

**Code the following text within the h4:**

OUR LUXURY ROOMS

**Code the following text within the h2:**

Featured Rooms

- ii. Configure six images within the div with class named *feature-image*.  
*img\_1.jpg, img\_3.jpg, img\_11.jpg, img\_12.jpg, img\_16.jpg, img\_14.jpg.*
- iii. Code a div with class named *clearfix*, after closing the container div and *main-padding* section.

**d. Section tag.** Code a section element a class named *newsletter*. Code a div with class named *container*. Code an h1 element and a form within the *container*

- i. Code the following text within the h1 element:

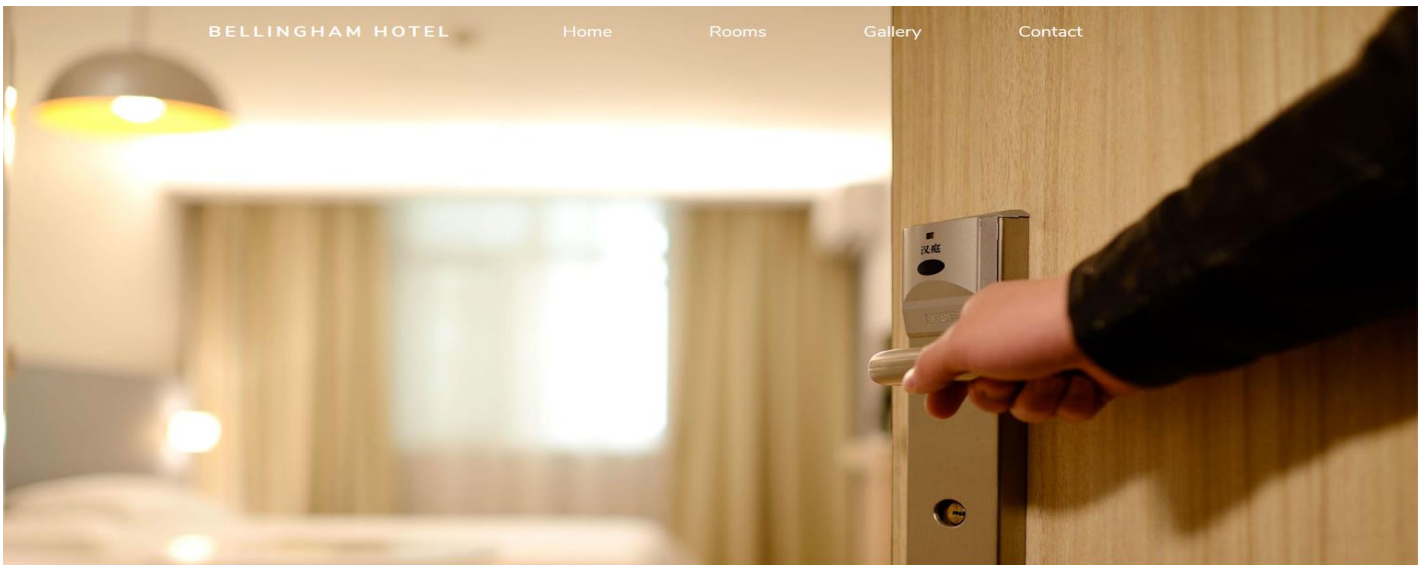
Subscribe To Our Newsletter

```
<form>  
  
  <input type="email" placeholder="Enter Email...">  
  <button type="submit" class="button">Subscribe</button>  
  
</form>
```

**6. Wireframe footer. Code** a footer element with a class named *main-footer*. Code a div within the header with a class named *container*. Code **three** divs with class names *footer*.

- i. **First div with class name footer:** Code within the div an h4 element with class name *sub-heading*. Configure within the p tag *24/7 Call us* and configure an anchor tag with text *+ 1 306 209 18823*.
- ii. **Second div with class name footer.** Code within the div an h4 element with class name *sub-heading*. Configure within the h4 element *CONNECT WITH US* and a p element with text *We are socialized. Follow us.*
- iii. **Third div with class name footer.** Code within the div an h4 element with class name *sub-heading*. Configure within the h4 element *CONNECT WITH US* and a p element with text *Lorem ipsum dolor sit amet, consectetur adipisicing elit. Maxime, odio.*
- iv. **Copyright.** Code a div with class name *copyright* with text: **Copy right 2019 All right reserved | Your Name.**





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#### CONNECT WITH US

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**Task 3: THE ROOMS PAGE.** Create the Rooms page show above. A technique that improves productivity is to create a new pages based on existing pages so that you can benefit from your previous work. Your new Rooms page will use the index.html page as a starting point. Open the index.html page for the website in Visual Studio Code Editor. Select File > Save As, and save the file with the new name of rooms.html in the Lab1 folder. Now you are read to edit the page.

**a. Web Page Title.** Modify the page title. Change the text contained between the <title> and </title> tags to the following:

Rooms | Bellingham Hotel

**b. Wireframe Main Content.**

- i. Delete the Home page main content.
- ii. **Section element.** Code a section element within the main tag with two class names *main-padding* and *bg-color*. Code a div with class name *container*.
- iii. **Rooms div.** Code a div with a class *rooms*. Code six (6) divs with class names *rooms-pic-1*.
- iv. **Rooms-pic-1 div.** Code within each *rooms-pic-1* div a *<figure>* tag. Configure within the *<figure>* tag an *<img>* tag with class name *img*. After each *<figure>* tag configure a div with class *rooms-body*.
- v. **Rooms-body div.** Code within each *rooms-body* an h3 element with class name *rooms-heading*, and a *<p>* tag with lorem ipsum text. Configure another *<p>* tag with an anchor tag with a class named *button*.
- vi. **All rooms-pic-1 should be configured the same with img, h3, p and a tags**

**Task 4: THE EXTERNAL STYLE SHEET.** You will create an external style sheet named **main.css**. Code the CSS to configure the following:

1. Open Visual Studio Code and create an external style sheet naming it **main.css** under a new folder called **css**
2. Add a **<link>** element to associate the web pages with the main.css external style sheet file.
3. Add the Below code in your CSS File to import **Google Web Fonts**:
4. `@import url('https://fonts.googleapis.com/css?family=Nunito:300,400,700');`
5. Configure the universal selector with a box-sizing: border-box style declaration.



6. Global style for the document (use the body element selector) with background color #F4F4F4; margin 0px; padding 0px; and font with 20px/1.5 'Nunito', sans-serif;
7. Styles for the header element selector that configure position absolute; top 0px; left 0px; width 100% and z-index 5;
8. Configure the header .logo parent child selector transformed uppercase; letter-spacing .2em; 700 and white text;
9. Configure header>div .logo selector
10. Configure the left column for header>div .logo. Add new style declarations to configure an area that floats to the left and padding *1em 3.5em 1em 0.5em*;
11. Configure a transparent background for header nav selector with *!important*.
12. Modify the nav a element selector. Add style declarations for 1em 2.5em padding, display inline block, and white text color (#FFFFFF).
13. Modify the a element selector. Add style declarations for transition .3s all ease, -webkit-transition, -o-transition and text-decoration none.
14. Code a style rule to prevent the hyperlinks in the nav area from displaying the default underline. Use nav a { text-decoration: none;}
15. Configure a class named *heroimage*. Set the background home.jpg. Configure cover background-size and height of 100vh.
16. Modify the class selector main-padding with a padding 7em 0em.
17. Configure the left column area. Add a style rule for the sideleft class selector to configure an area with a 30% width, float left and centered text.
18. Modify the class sub-heading with transformed uppercase, font size to 12px, color gray (#CCCCCC) and letter space .1em.
19. Modify the class heading with font size 50px and margin-bottom 30px.
20. Code the following CSS to the button class

```
{  
    background-color: #697e83;  
    transition: .3s all ease;  
    padding: 12px 30px;  
    margin-top: 1em;  
    text-transform: uppercase;  
    letter-spacing: .15em;
```

```
color: #fff;
border: none;
cursor: pointer;
}
```

21. Configure :hover pseudo-classes for the button class. Use the following colors: #697e83, background-color white (#FFFFFF) and border 2px solid #697e83.
22. Configure the right column area. Add a style rule for the siderigth class selector to configure an area with a 60% width and float right.
23. Configure the bg-color class selector with a background-color #F8F9FA !important.
24. Configure the feature class selector with centered text.
25. Configure the feature-image class selector with relative position.
26. Modify the class feature-image img parent child selector with display inline-block; width 300px and margin 1em;
27. Configure the newsletter class selector with padding 2em; color white (#FFFFFF), background #35424a, and overflow hidden.
28. Configure the newsletter h1 parent child selector with float left.
29. Configure the newsletter form parent child selector with float left and margin 10px.
30. Code the following CSS to the newsletter input[type="email"]

```
.newsletter input[type="email"]{
padding: 12px 30px;
height:2.7em;
width:250px;
}
```

31. Modify the footer class. Configure float left, width 33%, align center and margin-bottom 4em.
32. Configure the main-footer class with padding 4em 0em 0.9em 0em; and background #F2F2F2;
33. Configure the copyright class with centered text.

## Task 5: THE ROOMS PAGE CASCADING STYLESHEET.

1. Configure the rooms-pic-1 class selector with the following:

```
.rooms-pic-1{  
    max-width: 30%;  
    display: inline-block;  
    position: relative;  
    overflow: hidden;  
    padding: 0 1em;  
}
```

2. Configure the rooms-pic-1 figure parent child selector with float left;
3. Configure the rooms-body class selector with background white (#FFFFFF) !important; padding 30px; border 1px solid #E6E6E6; and border-top none.
4. Configure the figure .img parent child selector with max-width 100% and height auto.

### **Task 6:** Turning in your Work.

To complete the lab, submit your URL for the exercise. Your URL should be:

[http://myweb.students.wvu.edu/~\(login name\)/CS202/\(secret folder\)/Lab2/index.html](http://myweb.students.wvu.edu/~(login name)/CS202/(secret folder)/Lab2/index.html)

Replacing (login name) with your login name and (secret folder) with your secret folder name.

- If your login name is themysd and your secret folder is WonderWoman, then the web address for your page is:

<http://myweb.students.wvu.edu/~themysd/CS202/WonderWoman/Lab2/index.html>

- Note, if you double-click the file you saved in the folder directly, a web page will appear beginning with file://. This is the wrong web address; your TA and your instructor will NOT have access to your work through this address.

All work should be turned in as a Canvas URL submission. I recommend double-checking that your submission is complete. Incorrect/broken/nil URL submissions will be treated as per late policy, incurring a 10% penalty per 24-hour period. Any changes made to the assignment between the due date and grading time will result in a 0 on the assignment. For subsequent labs, copy over the previous lab's files prior to making any modifications such that grave mistakes will not be made.

**The last date for submission of Lab assignment is 11:59pm Sunday Jan 20, 2019.**

### **Points Breakdown**

Folders are created according to instructions above - **2 points**

Correctly created Home page: index.html – **4 points**

Correctly created Rooms page: rooms.html – **4 points**

Correctly modified Home page with the external style sheet – **5 points**

Correctly modified Rooms page to be consistent with the Home page. – **5 points**

Any submission without a working URL will earn **0 points**