

CSCI 202 - Dynamic Web Pages

Fall 2020 Laboratory 1

Objectives

- 1. Set up **studentweb** 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.

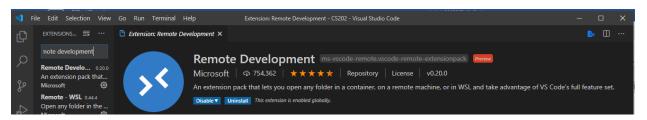
You are welcome to use your book as a resource as well as online lectures. Feel free to email your TA or instructor if you have questions about the lab.

READ ALL THE INSTRUCTIONS CAREFULLY.

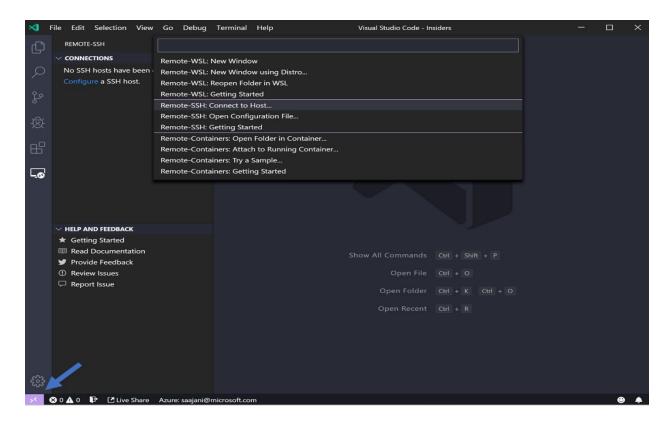
Task 2: Set up a **studentweb** folder, a **CS202** subfolder and a security folder. All of your published web pages MUST be contained in your **myweb** folder.

Steps:

- **a.** Log-in to a lab machine using your Western Universal ID and password.
- **b.** Open Visual Studio Code and install Remote Development extension. Make sure you have all other extensions installed. (Live Server, vscode-icons, Auto Rename Tag, CSS Formatter etc.).



You'll have noticed an indicator on the bottom-left corner of the Status bar. This
indicator tells you in which context VS Code is running (local or remote). Click on
the indicator to bring up a list of Remote extension commands.

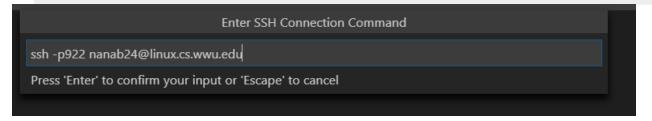


 Choose the Remote-SSH: Connect to Host command, Add New SSH Host and connect to the host by entering connection information in the following format:

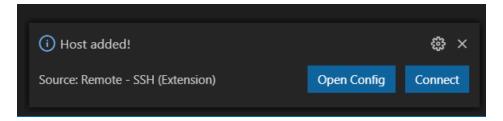
ssh -p922 username@linux.cs.wwu.edu

Example

ssh -p922 nanab24@linux.cs.wwu.edu



- Select C:\Users\User\.ssh\config
- VS Code will now open a new pop-up window on the bottom left corner.



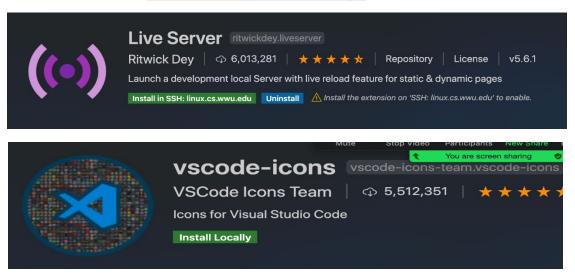
- VS Code will now open a new window. Select Your linux.
- You'll then see a notification to Enter password.
- You'll know you're connected by looking at the indicator in the Status bar. Now
 it shows SSH: linux.cs.wwu.edu



- c. Open your remote folder and click ok.
 - Using the menu bar at the top of the window, select File
 - Select Open Folder and change directory to:

/web/students/username

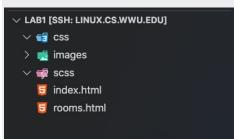
- o Click on ok.
- **d.** Open Extension and reinstall the extensions (Live Server, vscode icons, SCSS Formater etc.) on SSH: linux.cs.wwu.edu) and reload.



- e. Create a new folder and name it CS202.
 - o Using the menu bar at the top of the window, select File
 - o Select **New**
 - o Select **Folder**

- o Give your new folder the name **CS202** (make sure there are no spaces and the name is all upper case)
- **f.** Create a new subfolder in CS202.
 - 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 friend's name is MonaLisa, then the path to your secret folder is
 CS202/MonaLisa
 - Choosing a unique folder name will make it difficult for anyone to piece together your folder path, thus making it harder for them to access your webpages without your knowledge.
 - 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.
 - **q.** Create a new subfolder in secret folder.
 - Create a Lab1 folder inside your secret folder. We'll save the web page in the folder. (make sure exactly like it is typed in these instructions)

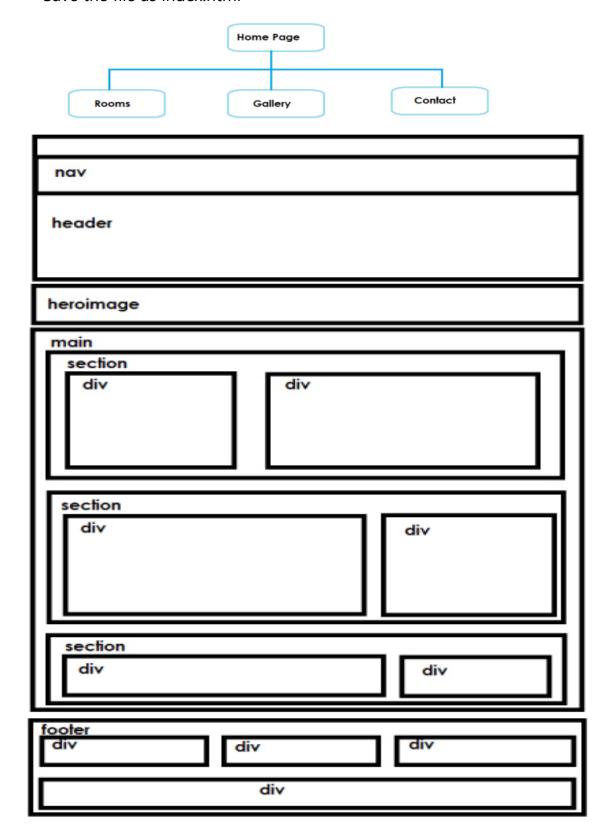
CS202/Secretfolder/Lab1



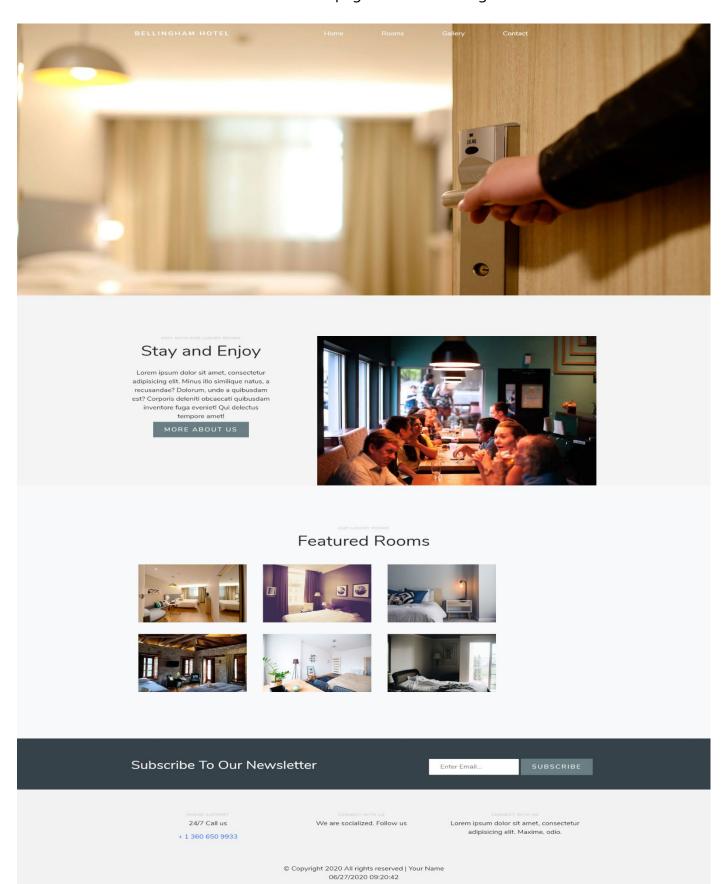
Task 2: Use the website case study to create your first web page.

- a. Select File and then New to generate a blank template.
- b. To save your file in the appropriate folder select File then Save As

- Navigate to the Lab1 folder you created earlier by selecting your CS202 subfolder, then the secret folder, then your Lab1 folder
- 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:

- Starter template. Copy the Starter bootstrap 5 template from
 https://v5.getbootstrap.com/docs/5.0/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 that has a class named container. Code a div with class named logo the text Bellingham Hotel. Code the nav element as the second child of the container div.

 (e.g. Home)
- **4. Wireframe Banner.** Code the banner with a div element with a class named heroimage. Below this, code a div with class named clearfix.
- **5. Wireframe Main Content.** Code the main page within a main element. Configure section element with a class named main-padding. Inside this, code in a div with the container class.
- **6. Sideleft div.** Inside this container div, code a div with a class named sideleft, and inside this 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

- 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 another p element, and within it an anchor element with a class named button. Code the following text within the anchor: 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. After the closing section tag, code a div with class named clearfix.

- c. Section tag. Code a section element with two class names main-padding and bg-color. Code a div within it with a class named container. Configure two divs within the container with class names feature and feature-image, respectively.
 - i. Within the div with the class named *feature*, 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:

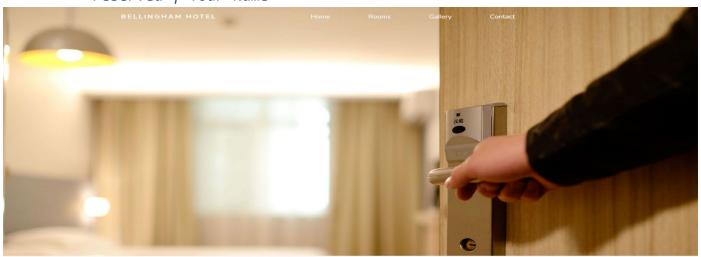
FEATURED ROOMS

- 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 the *main-padding* section.
- **d. Section tag**. Code a section element a class named *newsletter*. Code a div inside 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
 - **ii.** Code the following code for the form:

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

- 7. Wireframe footer. Code a footer element with a class named main-footer. Code a div within the footer with a class named container. Inside this, 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 a p tag 24/7 Call us and configure an anchor tag with text + 1 360 650 9933.
 - 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 below the h4 element code 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 below that a p element with text Lorem ipsum dolor sit amet, consectetur adipisicing elit. Maxime, odio.
- iv. **Copyright.** Code a div with class name *copyright* outside the container with <i class="far fa-copyright"></i> Copyright 2020 All rights reserved | Your Name

















Task 3: **THE ROOMS PAGE.** Create the Rooms page shown above. A technique that improves productivity is to create a new page 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. Inside this, code a div with class name container.
 - **iii. Rooms div.** inside the previous div, code a div with a class named **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 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 tag with lorem ipsum text. Configure another tag with an anchor tag with a class named button and text within the anchor Book Now
- vi. All 6 rooms-pic-1 should be configured the same with img, h3, p and a tags

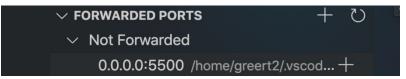
 Task 4: THE EXTERNAL STYLE SHEET. You will create an external scss named main.scss.
- Go to extensions tab and Search for live sass complier, the author is Ritwick Dey and install it.
 - o Go to Settings tab and Search for **launch.json** and click on Edit in **settings.json**.
 - Copy and Paste:

```
"format": "expanded",
    "extensionName": ".css",
    "savePath": "./css"
},
]
```

- 2. Create a css folder in Lab1 and inside create a file named main.scss.
- 3. Click on Watch Sass and Go Live at the bottom of the VS Code status bar.
- Now click on Remote Explorer (Ctrl + Shift + E) on the Activity Bar.



 Click on Forward Port in the FORWARDED PORTS and click on open in browser icon to launch in the browser.



4. Add a < link > tag head section of your html:

```
<link rel="stylesheet" href="css/main.css">
```

- 5. Code the following into your main.scss.
 - a. Import the Google Web Fonts:

```
@import url('https://fonts.googleapis.com/css?family=Nunito:300,400,700');
```

b. Import the bootstrap 5 cdn:

```
@import url("https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-
alpha1/css/bootstrap.min.css");
```

c. Import the fontawesome 5 cdn:

```
@import url("https://use.fontawesome.com/releases/v5.13.1/css/all.css");
```

- d. Configure the universal selector with a box-sizing: border-box style declaration.
- e. Global style for the document (use the body element selector) with background color #F4F4F4; margin 0px; padding 0px; and font 20px/1.5 'Nunito', sansserif;
- f. Styles for the header element selector that configure position absolute; top 0px; left 0px; width 100% and z-index 5;
- g. Configure the header .logo parent child selector with text-transform uppercase; letter-spacing .2em; 700 font weight and white text;

- h. 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;
- i. Configure a transparent background for header nav selector with !important and text-align center.
- j. Modify the nav a element selector. Add style declarations for 1em 2.5em padding, display inline block, and white text color (#FFFFFF).
- k. Modify the a element selector. Add style declarations for transition .3s all ease, -webkit-transition, -o-transition and text decoration none.
- I. Code a style rule to prevent the hyperlinks in the nav area from displaying the default underline upon hovering with text-decoration: none. (E.g. nav a)
- m. Configure a class named heroimage. Set the background home.jpg. Configure cover background-size and height of 100vh.
- n. Modify the class selector main-padding with a padding 7em 0em.
- o. 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.
- p. Modify the class sub-heading with transformed uppercase, font size to 12px, color gray (#CCCCCC) and letter space .1em.
- q. Modify the class heading with font size 50px and margin-bottom 30px.
- r. 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: 1px solid #697e83;
cursor: pointer;
box-shadow: 0 5px 10px rgba(0, 0, 0, 0.6);
}
```

- s. Configure: hover pseudo-classes for the button class. Use the following colors: #697e83 and background-color white (#FFFFFF).
- t. Configure the right column area. Add a style rule for the sideright class selector to configure an area with a 60% width and float right.
- u. Configure the bg-color class selector with a background-color #F8F9FA!important.
- v. Configure the feature class selector with text-align center
- w. Configure the feature-image class selector with relative position and textalign center.
- x. Modify the class feature-image img parent child selector with display inline-block; width 300px and margin 1em;
- y. Configure the newsletter class selector with padding 2em; color white (#FFFFFF), background #35424a, and overflow hidden.
- z. Configure the newsletter h1 parent child selector with float left and paddingtop of 0.7em.
- aa. Configure the newsletter form parent child selector with float right and margin 10px.
- bb. Code the following CSS to the newsletter input[type="email"]

```
.newsletter input[type="email"]{
   padding: 20px 30px;
   height:2.8em;
   width:250px;
   outline: none;
}
```

- cc. Modify the footer class. Configure float left, width 33%, align center and margin-bottom 4em.
- dd. Configure the main-footer class with padding 4em 0em 0.9em 0em; and background #F2F2F2;
- ee. 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 (#FFFFF) !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: Code this in the footer.

```
<script>
    var date = document.lastModified;
    document.write(date);
</script>
```

Task 7: Turning in your Work.

To complete the lab, submit your **URL/zipped** folder for the exercise.

Your URL should be:

http://studentweb.cs.wwu.edu/~(username)/CS202/(secret folder)/Lab1/index.html

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

 If your username is nana24 and your secret folder is MonaLisa, then the web address for your page is:

http://studentweb.cs.wwu.edu/~nanab24/CS202/MonaLisa/Lab1/index.html

Note, if you double-click the file you saved in the folder directly, a web page will
appear beginning with file:// or http://127.0.0.1:5600/ This is the wrong web address;
your TA and your instructor will NOT have access to your work through this address.

Your zipped folder should be:

• Lab1last name.zip

All work should be turned in as a Canvas **URL/zip** submission as described above. I recommend double-checking that your submission is complete. Late assignments, broken URLs, or incorrect submission items will be penalized two points per 24-hours passed from the due date.

The last date for submission of Lab assignment is 11:59pm Saturday October 3, 2020.

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 scss – **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**