



**CSCI 102 - Computer-Mediated Communications**

**Spring 2020**

**Laboratory Assignment 6**

**CRN 21396**

**Objectives**

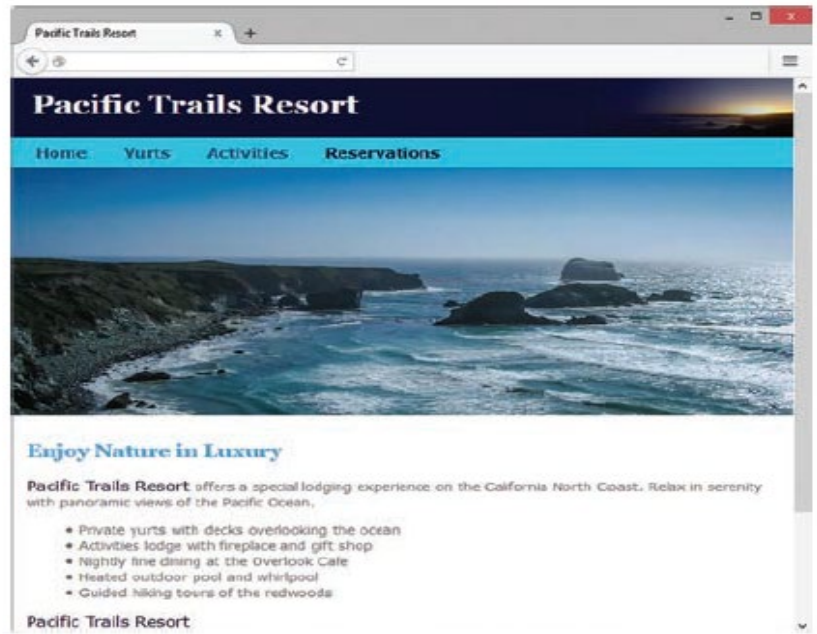
1. Create a new folder for this case study.
2. Modify the Home page to include a viewport meta tag.
3. Modify the Yurts page to be consistent with the Home page.
4. Modify the Activities page to be consistent with the Home page.
5. Modify the desktop styles in style.css.
6. Modify style.css and code a media query for tablet device display.
7. Modify style.css and code a media query for smartphone device display

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: Create a new folder naming it Lab6 in your secret folder.**

- a. Create a new folder called Lab6.
- b. Copy all your files from the Lab4 folder into Lab6 folder.
- c. Copy all the images from canvas into your images folder.



**TASK 2: MODIFY THE HOME PAGE.** Open `index.html` in a text editor. Edit the code as follows:

1. Configure a viewport meta tag that configures the width to the `device-width` and sets the `initial-scale` to 1.0.
2. The home page displays a phone number in the contact information area. Wouldn't it be handy if a person using a smartphone could click on the phone number to call the resort? You can make that happen by using `tel:` in a hyperlink. Configure a hyperlink assigned to an id named `mobile` that contains the phone number as shown below:

```
<a id="mobile" href="tel:888-555-5555">888-555-5555</a>
```

But wait a minute, a telephone link could confuse those visiting the site with a desktop browser. Code another phone number directly after the hyperlink. Code a span element assigned to an id named `desktop` around the phone number as shown here:

```
<span id="desktop">888-555-5555</span>
```

**TASK 3: MODIFY THE YURTS PAGE.** Open `yurts.html` in a text editor. Add the viewport meta tag in a manner consistent with the home page. Save and test your new `yurts.html` page in a browser. Use the HTML validator to help you find syntax errors.

**TASK 4: MODIFY THE ACTIVITIES PAGE.** Open `activities.html` in a text editor. Add the viewport meta tag in a manner consistent with the home page. Save and test your new `activities.html` page in a browser. Use the HTML validator to help you find syntax errors.

**TASK 5: MODIFY THE DESKTOP CSS.** Open `pacific.css` in a text editor. Remember the telephone number hyperlink you created in Task 2? Configure the CSS for the phone number display as shown below:

```
#mobile { display: none; }  
#desktop { display: inline; }
```

**TASK 6: CONFIGURE THE TABLET CSS.** Open `pacific.css` in a text editor. Edit the style rules as follows:

1. Code a media query to select for typical tablet device viewport size, such as

```
@media only screen and (max-width: 1024px) {  
}
```

2. Code the following new styles within the media query:
  - a. Configure a body element selector with margin and padding set to 0. Set the `background-image` property to none.
  - b. Configure a wrapper id selector. Set the width to auto, `min-width` to 0, margin to 0, and `box-shadow` to none.

- c. Configure the `h1` element selector. Set margin to 0.
- d. Configure the `nav` element selector. The mobile layout uses a single column. Set the float to none, width to auto, top padding to 0.01em, bottom padding to 0.01em, left padding to 1em, and right padding to 1em.
- e. Configure the `nav li` selector. Set display to `inline-block`.
- f. Configure the `nav a` selector. Set right padding to 2em.
- g. Configure the main element selector. Set padding to 1em, left margin to 0, and 90% font size.
- h. Configure the footer element selector with 0 margin.
- i. Configure the `#homehero`, `#yurthero`, and `#trailhero` selectors. Set the left margin to 0.

**TASK 7: CONFIGURE THE SMARTPHONE CSS.** Create the mobile style sheet based on the desktop style sheet. Open `pacific.css` in a text editor. Note that any device with a screen max-width of 1024 pixels or less will apply the styles you coded in Task 6. In this task you will code additional styles needed for smaller devices. Edit the style rules as follows:

1. Code a media query to select for typical smartphone device viewport size, such as

```
@media only all and (max-width: 768px) {  
}
```

2. Code the following new styles within the media query:
  - a. Configure the `h1` element selector. Set height to 100%, font size to 1.5em, and left padding to 0.3em.
  - b. Configure the `nav` element selector. Set padding to 0.
  - c. Configure the anchor tags in the navigation area. Code a style rule for the `nav a` selector. Set display to `block`, padding to 0.2em, and font size to 1.1em. Also configure a 1 pixel bottom border (use `#330000` for the border color).
  - d. Configure the `nav ul` selector and set margin and padding to 0.

- e. Configure the `nav li` selector with block display. Set margin and padding to 0.
- f. Configure the main element selector. Set 0.1em top padding, 0.6em right padding, 0.1em bottom padding, and 0.4em left padding.
- g. Configure the `#homehero`, `#yurthero`, and `#trailhero` selectors to not display. Set display to `none`.
- h. Configure the footer element selector. Set padding to 0.
- i. Remember the telephone number hyperlink you created in Task 2? Configure the CSS for the phone number display as shown below:

```
#mobile { display: inline; }  
#desktop { display: none; }
```

### Task 8: Code this in the footer.

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

### Task 9: Turning in your Work.

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

#### Your URL should be:

[http://myweb.students.wvu.edu/~\(login name\)/CS102/\(secret folder\)/Lab1/index.html](http://myweb.students.wvu.edu/~(login name)/CS102/(secret folder)/Lab1/index.html)

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

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

<http://myweb.students.wvu.edu/~nanab24/CS102/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://. 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 May 23, 2020**

### **Points Breakdown**

Correctly modify the desktop styles in style.css. - **6 points**

Correctly modify style.css and code a media query for tablet device display -**7 points**

Correctly modify style.css and code a media query for smartphone device display– **7 points**