

Chapter Review

5-21c Apply: Case Problem 2

Data Files needed for this Case Problem: `wc_styles_txt.css`, 2 CSS files, 18 HTML files, 20 PNG files

Willet Creek Michael Carpenter is an IT manager at the Willet Creek Resort in Ogden, Utah. You've recently been hired to work on the company's website. Many golfers have asked about mobile-friendly versions of the pages describing the Willet Creek golf course so they can easily view information about each hole on their mobile devices when they're out on the course. Michael would like you to use responsive design to create a mobile-friendly style sheet to be used by the pages describing the golf course holes. A preview of the completed design for one of the holes is shown in [Figure 5-60](#).

Figure 5-60
Willet Creek course website



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The work on the HTML code for the 18 pages describing each hole has already been completed for you. Your job will be to write the style sheet that employs the techniques of responsive design.

Complete the following:

1

Using your editor, open the `wc_styles_txt.css` file from the `html05 ► case2` folder. Enter **your name** and **the date** in the comment section of the file, and save it as `wc_styles.css`.

2

Open the **wc_hole01.html** file in your editor. For this case problem, you do not need to modify any HTML files, but you should take some time to study the contents and structure of this document (the other 17 HTML files have a similar structure). When you're finished studying the file, you may close it without saving any changes you may have inadvertently made.

3

Return to the **wc_styles.css** file in your editor. Use the `@import` rule to import the style rules from the `wc_designs.css` file. Write the rule so that the imported style sheet should only be used with screen devices.

4

You'll layout the golf course pages using a flex layout. Go to the Flex Layout Styles section and create a style rule for the page body that displays the body as a flexbox oriented in the row direction with wrapping. As always, include the WebKit browser extension in all of your flex styles.

5

Two of the child elements of the page body are a navigation list with the ID *hole_list* and an `article` element containing information about the current hole. Add a style rule that sets the flex growth, shrink, and basis size values of the *hole_list* navigation list to 1, 3, and 140 pixels.

6

Add a style rule that sets the flex growth, shrink, and basis size values of the `article` element to 3, 1, and 341 pixels.

7

The `article` element contains statistics and a summary about the current hole. Michael also wants this element to be treated as a flexbox. Add to the style rule for the `article` element styles that display the element as a flexbox oriented in the row direction with wrapping.

8

The two items within the `article` element are a `section` element with the ID *stats* and a `section` element with the ID *summary*. Create a style rule for the stats section that sets its flex growth, shrink, and basis values to 1, 4, and 120 pixels.

9

Create a style rule for the summary section that sets its flex growth, shrink, and basis values to 4, 1, and 361 pixels respectively.

10

The `aside` element contains an advertisement for other services offered by the Willet Creek Resort. Add a style rule that displays this element as a flexbox in row orientation with wrapping.

11

Information about individual services are saved in a `div` element within the `aside` element. Michael wants these `div` elements to be laid out with equal flex sizes. Create a style rule for every `div` element within the `aside` element that sets the flex growth and shrink values to 1 and the basis value to 180 pixels.

12

Next, you'll design the layout for the mobile version of the page. Go to the Mobile Styles section and add a media query for screen devices with a maximum width of 480 pixels.

13

Under the mobile layout, Michael wants the navigation list containing links to the 18 holes on the course to be displayed near the bottom of the page. Create a style rule that sets the flex order of the `hole_list` navigation list to 99. Create a style rule that sets the flex order of the footer to 100.

14

To reduce clutter, Michael wants the horizontal navigation list at the top of the page to be hidden unless the user taps a navicon. Create this hidden menu system by adding the following style rules to

hide the display of the `ul` element within the horizontal navigation list.

change the `display` property of the `ul` element to `block` if the user hovers over the navicon hypertext link or hovers over the unordered list within the horizontal navigation list. (Hint: Review the hover discussion in session 5.2 as needed.)

15

Michael also wants to hide the `aside` element when the page is viewed on a mobile device. Add a style rule to accomplish this.

16

Next, you'll create the styles that will be used for tablet and desktop devices. Create a media query for all screen devices with a width of at least 481 pixels.

17

Within the media query, create a style rule that hides the display of the navicon.

18

For these wider screens, Michael wants the horizontal navigation list to be laid out within a single row. Create a style rule that changes the display of the `ul` element within the horizontal navigation list to a flexbox that is oriented in the row direction with no wrapping.

19

For every list item in the `ul` element in the horizontal navigation list, set the growth and shrink values to 1 and the basis value to auto so that the list items grow and shrink together on the same row.

20

Save your changes to style sheet and then open the **wc_hole01.html** file in your browser or device emulator. Verify that when you reduce the screen width, the layout automatically changes to a single column layout and the `aside` element is hidden from the user. Further verify that for mobile-sized devices, the navigation links at the top of the page are hidden until the user hovers or touches the navicon.

21

Use the course navigation links on the page to view information on each of the 18 holes on the Willet Creek course. Verify that the layout matches that shown in [Figure 5-60](#) for each page in both mobile and desktop size.