Assignment 5: Advanced CSS and JavaScript

PART 1: Book Rep CRM (Chapter 5, Project 2)

Overview

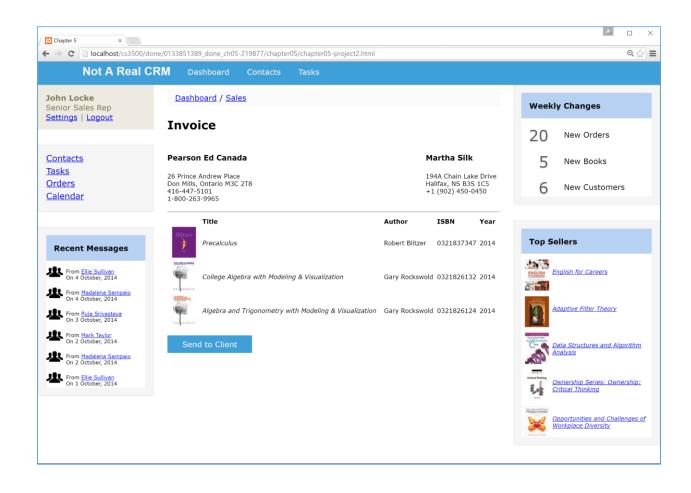
Demonstrate your proficiency with absolute positioning and floats by modifying chapter05-project02.css so that chapter05-project02.html looks similar to that shown in the next page.

Instructions

- 1. Examine chapter05-project02.html in the bowser. The file does not need to be modified in the project.
- 2. You will create the three-column layout using absolute positioning and margin settings as described in Section 5.4.1 of the textbook.
- 3. Within the main column, the company and client addresses will use floats rather than positioning.
- 4. Within the boxes for recent messages, weekly changes and top sellers, you will need to use floats, block display, and padding values.

Test

1. Be sure to test by increasing/ decreasing the browser zoom level. If you have used em units for font sizes and most margin and padding values, it should scale to the different zoom levels.



PART 2: Improving Art Gallery Search (Chapter 6, Project 3)

Overview

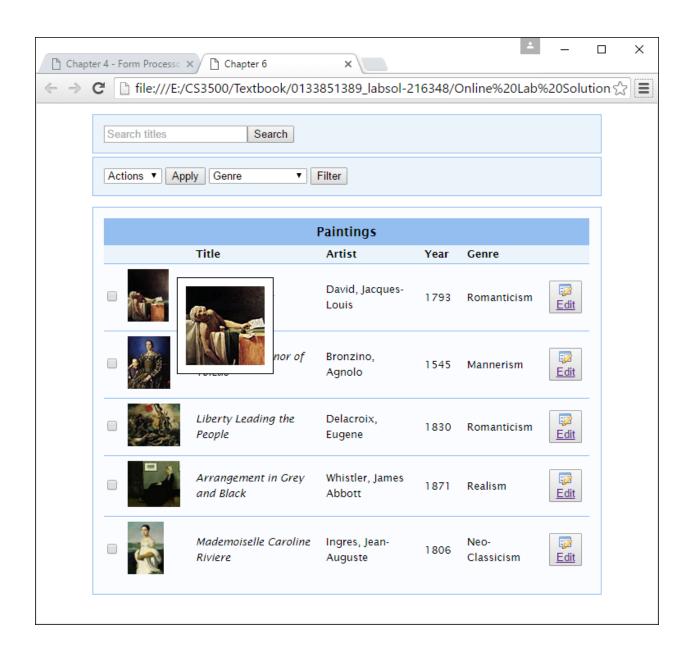
You will use the web page you built in Chapter 4, Project 2, and replace the existing content with an enhanced version (progressive enhancement) where a small piece of JavaScript is added so that every image can be hovered on to see a larger thumbnail as needed.

Instructions

- 1. Begin by adding a link to a JavaScript file in the head of your page.
- 2. Slightly modify the HTML to add a class for each thumbnail image.
- 3. In your JavaScript file, write a loop to seek out all the img tags with the newly defined class (hint: querySelectorAll()).
- 4. For each image, attach a listener on the mouseln event to create a new with a larger image inside (based on the src attribute). Add another listener on the mouseOut event to hide the newly created .

Test

- 1. Reload the page and see that, as you hover over an image, a larger thumbnail is fetched and seen over the mouse location as shown in the next page.
- 2. As you move your mouse out, the page should return to the way it was before you hovered.



PART 3 (OPTIONAL): Art Store (Chapter 5, Project 3)

Note:

- This part demonstrates how a real business web page should look like. CS3500 does not specialize in web page design. But it is always good to know how to construct a professionallooking web interface. There is quite an amount of HTML to write.
- 2. The part makes use of Bootstrap CSS framework, a powerful tool for web design. You want to spend a little more time to learn the tool.
- 3. This part is optional, since we have no time to teach Bootstrap CSS framework in class. You receive extra points (extra 50% of an assignment) if you complete this part.

Overview

Edit chapter05-project03.html and chapter05-project03.css so that the page looks similar to the one shown in the next page.

Instructions

- 1. Use the Bootstrap CSS framework included in the directory. You will need to add a fair amount of HTML in accordance with the Bootstrap documentation. Since you can use the various Bootstrap classes, you will need to write very little CSS.
- 2. The first step will be defining the basic structure. The web page shows that most of the content is contained within a main row (i.e. below the navbars and above the footer) that is composed of two columns (one 10 wide, the other 2 wide). The Bootstrap grid classes (e.g., col-md-10) are shown at the top of the figure. One of the columns has a nested row within it that contains the painting image and the data on the painting.
- 3. The web page identifies other Bootstrap components that are used in this project. You will need to use the online Bootstrap documentation for more information on how to use these components.

Testing

Be sure to test by increasing/decreasing the size of the browser window. If you shrink the
browser window sufficiently, it should use the built-in Bootstrap media queries to adapt nicely
to the smaller windows size. This will require you to construct the navbars with the appropriate
collapse classes.

