Tommy Huynh

CIS 4296 Homework 2

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**Part 2 : Github**

<https://github.com/tommyy550/cis4296-starter>

**Part 3 : Bootstrap**

1. What is meant by “responsive design”?

Responsive design means that when you adjust the size of the browser on any device, it will adjust the screen to fit with the browser on that specific device. For example, you have a web page that have three contents laid out horizontal in a full screen web browser on a desktop. When you view it on a mobile device, the three contents should be laid out vertically because the mobile device has a smaller browser width. It is important for web pages to be responsive so it can look professional and be user-friendly. Bootstrap is a great CSS framework that includes responsive design.

2. How does the 12 column grid system provide flexibility for the web designer?

The 12-column grid system provides flexibility for the web designer by allowing the programmer to easily divide up columns on the web page. The only rule is that the sum of the columns must equal 12. The grid system will also adjust the columns depending on the screen size. As mentioned above, on a big screen, the columns will look good with three columns next to each other horizontally, but on a small screen size it would be better to have the columns under one another. The grid system also has classes that you can use to adjust the column layouts to that specific screen size. For example, ‘xs’ corresponds to a phone and ‘md’ would be for desktops.

3. How does Bootstrap resolve the issue of a large navigation bar on a small screen?

Bootstrap resolves the issue of a large navigation bar on a small screen by using the navbar-collapse class. If the browser is shrunk to a certain size, usually when links start to get cut off, the navbar contents would disappear and be replaced by a button. When the user hovers over or clicks the button, the contents of the navbar will be shown here instead. This solution makes it simple for the programmer while ensuring the user has a friendly web page.

4. What are the 7 types of Bootstrap buttons?

The seven types of Bootstrap buttons are default, primary, success, info, warning, danger, and link. The default button is colored white, the primary button is dark blue, the success button is colored light green, the info button is colored light blue, the warning button is colored light orange, the danger button is colored red, and the link button is just a link with no rectangle border around it. All the buttons except the default and link button will change color when you hover over them. To style a button, programmers simply need to class the class. For the primary button it would look something like this, “class=btn btn-primary”.

5. How does Bootstrap accommodate responsiveness throughout a site?

Bootstrap accommodate responsiveness throughout a site by providing you a variety of classes you can use in their CSS framework. The classes contain pre-written CSS code which programmers can use simply by calling that specific class. They also provide you with a grid system that allows you to easily design the columns for your contents and adjust the contents in your web page depending on your screen size. By using Bootstrap, you don’t need to specify specific viewports to adjust screen size, the framework does it all. Bootstrap is a great tool for programmers to use to create responsive web pages that supports many browsers.