**Name:** Rual Godwin C. Duliente

Compsci 36A – Web Systems and Technologies

Seatwork #1

1. **What is a responsive website? How can you make HTML website responsive?**

A responsive website is one that adjusts to the size of the viewport of the device whether it be on mobile, desktop, and tablet devices. It refers to a strategy in designing the websites that would fit to all types of devices in which would not leave a significant amount of users from using the site. In order to make an HTML website responsive, it is advised to use CSS media queries or container queries that target the most commonly used device resolutions such as for desktops (1920 x 1080), mobile (414 x 896), and tablet (1536 x 864). Another would be the use of using flexible grid and images that would adapt to screen of the device. In which making sure that the height, width, display flexed elements and grid type contents are adjusting to the common device resolutions. For example, if you are targeting mobile devices then a row of three elements must be switch to a column direction as well as grid content where it has 9 elements in a 3 by 3 format must also be displayed flex and its direction must be in a column direction which would suit the view size of mobile devices.

1. **Name 3 elements of an HTML form and describe the functionality of each one.**

Firstly, HTML has the text header elements in which they are <h1>, <h2>, <h3>, <h4>, <h5>, and <h6>. These tags from highest to lowest shows the size of the text from <h1> tag being the largest to <h6> being the smallest. All text inside a text header element are all in bold. Secondly, HTML has a paragraph element using <p> tag in which tells that the text inside of said element is a block of text. Lastly, HTML has the horizontal ruler element denoted by <hr> tag produces a horizontal line that acts a separator between elements or sections of a webpage.

1. **What is HTML?**

HTML commonly known or stands for Hyper Text Markup Language which is used to hypothetically create the skeleton of a web application or a web page. It is used to tell the browser how to display the elements such as images, text, content and so on. And also tells how content should be structured according to the HTML provided. Properly according to the nested elements that contains other elements such as headers, text or content that we provided.

1. **Identify the differences between HTML and XHTML?**

HTML is a lot laxer or flexible in terms of syntax where in comparison to XHTML which requires proper syntax such as proper closing tags, proper nesting, and attribute values or classes must be properly quoted. In which means to say HTML has looser syntax compared to XHTML or can be loosely typed. For example, if a certain tag does not have a closing tag. It would cause issues to the structure of the website due to XHTML being strict with the management of content. If a certain section of the HTML has a line where <p><b> Text <p> <b>, then it is wrong it must be <p><b> Text <b> <p> in which proper nesting should be watched. If there are XHTML elements such as the paragraph element denoted in <P> then it is wrong, it must be in lowercases as such <p> tag. And if there are XHTML empty elements such as a break or horizontal, it must have a forward slash to denote that it is closed such as <br /> and <hr /> respectively.

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