

Mackenzie Falla

09/23/2024

Link: <https://lamp.cse.fau.edu/~mfalla2020/p3/>

Bootstrap + Javascript

This particular project was a little difficult for me because I found myself rewriting the code for the javascript file. Multiple times it did not work because I found myself doing the equations wrong. Luckily I was able to use my resources and find something similar online to work with. Being able to also download a fully scripted bootstrap form template was also very handy because it made making my page easier and a lot faster; all I had to do was fill out the information and delete what wasn't needed. After I got that all squared away all I needed to do was figure out how to write the javascript for min, max, mean, median and range.

Figuring out max and min was pretty easy because all you do is find `math.min` or `math.max` of all the numbers entered. Then for median you do all the numbers entered divided by the amount of numbers entered (in our case - 3) then with the help of our textbook (section 7.4/7.5) I was able to do a if-else statement to put them in number order least to greatest for the the compiler to figure out which one is in the middle. In this case we enter only 3 numbers so our median will be a decimal number because it will be divided by 3. Lastly range was just `max - min`.

My index page was pretty much complete thanks to being able to use bootstrap. All I had to do was add the display results section which I did by adding a container (`<div>`). In my .js file I used chatGBT to help me with the event listener I found that a little difficult. From there I had to set up the retrieve values from input fields and convert it to a number. After I calculated

the max, min, and the mean. Then I calculated the median using if-else statements as well as calculate the range. Lastly was the display results which I used my notes from the ZYBooks.

The online tools I used throughout this project was Phoenix Code, ChatGBT, mathjs.org, and help of course from our textbook (ZYBooks chapters 7 and 8). Although this was a tough project for me I did learn a lot essentially when it came to the display results section. My calculations came out right at the end and when I ran the code it worked perfectly. Thanks to the help of Bootstrap templates I also did not have to do much about the .css file as well since it was already set up.

References:

Norton, S. (n.d.). *Registration Form (Bootstrap 5 Validation)* (M. Falla, Ed.) [Review of *Registration Form (Bootstrap 5 Validation)*]. Codepen.io.

<https://codepen.io/samnorton/pen/oNYajYM>

zyBooks. (2024). Zybooks.com.

<https://learn.zybooks.com/zybook/FAUCOP3813WangFall2024/chapter/8/section/1>

zyBooks. (2024). Zybooks.com.

<https://learn.zybooks.com/zybook/FAUCOP3813WangFall2024/chapter/8/section/6>

zyBooks. (2024). Zybooks.com.

<https://learn.zybooks.com/zybook/FAUCOP3813WangFall2024/chapter/8/section/7>

77. (2022, October 9). *COP3813 Project3 Demo*. YouTube.

<https://www.youtube.com/watch?v=XeCwbKIthyU>

Jos de Jong. (2024). *math.js | an extensive math library for JavaScript and Node.js*. Mathjs.org.

<https://mathjs.org/docs/reference/functions/mean.html#:~:text=median>

