**WEB DEVELOPMENT PROJECT**

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Hi Professor,

Here I designed a simple portfolio using HTML, CSS and JavaScript.

First, I started with the HTML file then I gave the title for the tab with my name, later where I started with the navbar which navigates to different section of the browser when we click on the topic using the unordered list. Here list tag was used which contained home, about me, resume, projects, and contact information. All these sections navigate to that particular section.

Then I added the social media links to my website just by href and writing the alternate name for each social media I was mentioning. But I really wanted to mention it through the logos of the social media like GitHub, Facebook, and LinkedIn. I did not have any idea how to add. Later I figured it out by going into <https://icons.getbootstrap.com/icons/linkedin/> website using SVG graphics tag. It had everything mentioned here how to use these graphics tags. And made also I made this responsive using href, so that clicking on that will take to that particular social media of my profile.

After this step, I added about me section, which includes my skills, Programing languages that I know and also my background.

Next, I planned to add my resume, like my work experience. This I had to think for a long time how well I can add this to my website. So, I figured it out using the bootstrap so that I can use the grid system. Which divides both my work experience and education background. But I did not know how to import the bootstrap. Because we never imported the bootstrap in the assignments, as it was already imported in the assignments. First, I just wrote a code for the bootstrap grid with my work experience and educational background and also, I underlined the topics, and It did not work. I know this was stupid of me to write bootstrap grid without importing it. I referred <https://getbootstrap.com/docs/5.0/getting-started/download/> website to get to know about the bootstrap grid and how to import it to my project. Before this import the page was looking so bland. And after importing this bootstrap it was looking for bit better than previous. Now I was thinking to add the font, by preconnect it to the file I referred <https://css-tricks.com/the-fastest-google-fonts/> and also <https://fonts.google.com/> and <https://cdnjs.com/libraries/font-awesome/5.13.0>.

I actually wanted to talk about the svg, which is a graphic tag. Where the xmlns is a namespace definition. The svg tags contains width and height of the graphic which should be filled in a area. There is fill attribute which fills the color to the graphics, where I used “currentColor” which means that it takes the color from parent CSS color. There is also a class name which is used to access the elements for 2D images. The view box in the SVG is used to define the position and dimension in that space. The last element is path, which describes how the graphic is designed using line, curves and arcs. I was really amazed how easy it was to use in the project.

Today, I made a few changes in the html file where I had to add my picture in the page. I added picture of myself to the myself page. With width and height of 200, so that I can make it in a perfect circle image using css file.

Now I wanted to try how to style this page. I had to still write projects and contact info, but still I wanted to check on the styles now. I linked a css file to the html file using href the style.css file. I started with the body, here I added font-family with multiple fonts so that if the browser does not support first font, then it goes to the next font. All the texts are aligned to the center with the color black and also set margin top and bottom to 0 and left and right to auto.

Now coming down to Nav bar. I have added styles to nav bar and also the list in the nav bar and even I added hover effect on those lists. I added a background as purple color and also font family to be different than the body so that when it hovers it can have effect and can be clearly visible. I have assigned the position to be fixed so that the nav bar won’t move even though we scroll. Its width I assigned it to be 100% so that it will take full screen 100% width as the resolution of the screen changes. Then I needed the letters in the nav bar to be thick, so I tired the values in <https://www.w3schools.com/cssref/playdemo.asp?filename=playcss_font-weight&preval=900> where I could change the values and let me decide what weight I can go for.

Now I added style for the unordered list. Since the unordered list gives bullet points in default, I had to remove it so I assigned list-style-type to be none which removes the bullet points and assigned margin and padding to be 0.

Next, I went for the list of elements in the unordered list. I assigned display to be inline-block so that I can adjust width and height if needed and also added padding and margin for the adjustments and assigned the list-style-type to be none. I have also added text-decoration to be none as I did not want any decoration like underline or something else and kept the color of the text to be black.

Now I added hover effect for each list element in the nav bar. I assigned the words in the nav to look like bold when we move our cursor over it and it changes the color to cyan and the words will be in uppercase. Later I made the image to have border like circle, so I assigned border-radius as 50vm. For the class name section-home I added few adjustments by assigning value for margin-top as this class only mentioned in id=home so there I was just adding space between home and nav bar, so I added value for margin-top. Also added margin and paddings for the paragraphs. I only used 2 class for the background color that is background-1 and background-2 where I used contrast of dark and light green. Also added few adjustments for h1 tags by adding values to margin-bottom. Added paddings for the text in about-me section and even aligned the text in resume.

Now in html file I added my projects section where I added two of my projects from my masters one of the projects was Internet relay chat and another one is ATM machine. I have used svg tags for GitHub which is linked to these projects. I have planned to make a separate box for each of these projects. Along with their respective repositories.

Next, I added contact me section, where the users can add their details so that I can contact them. Users can add their name, email and message/comment and submit it. I added when the form is submitted liked to the error handler in java script file. Here in the form, I gave label for name and input type for the name, label for email and it input type and also added label for message box and also its input type and divided all these by bootstrap grid. I also added if any fields are missing there must be an error message also there must be a note that the user must fill all the fields. Also, there will be a success message when the user fills the form correctly.

Now for the css part of this project and contact section. In the project section I added two boundaries. Where One boundary is the outer one where I used display as flex box since I had to add more items inside, and I wrapped the items using flex-wrap and also gave even space between the contents. I also added project boxes inside the container. Making the contrast to white background along with the link for each project and also added border with white color. I also changed the font size of the paragraphs inside the box.

Now in the contact me section I used a green background gave a size of the order box. Since there is a form which is black in color, so I changed the color of the alphabets to white to match the black background and aligned the text to center. Added where the error and success message should appear. After that the major part is the responsiveness of the webpage to different screen resolution like mobile, tablet and laptop. I used @media for each range of width of the screen resolution to adjust the webpage. So for mobile resolution its max of 414px and for tablet between 415 to 780px and for laptop.

Now coming to JavaScript, where I linked it with html using “script defer src="application.js”. I have used the event handler for name, email, and message and for the button. I have assigned error message and success message for each variable. So, in the “if” loop if the user does not enter the name or email or message it shows the error message in a block. Else, it shows the success message in block and clears out the entered value in the form.