Introduction to Programming II Project Log

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| **Project title:** | Data Visualisation Application |
| **Topic:** | Topic 9 |
| **What progress have you made this topic?** | |
| I have implemented improvements to the pie chart (Tech Diversity: Race) as well as the stacked bar chart (Tech Diversity: Gender). For the pie chart, three enhancements were implemented, the first is a dynamic animation that triggers upon switching companies, adjusting the pie slices to represent the new percentages. The second is a 3D pop-up animation triggered upon mouseover, which also enlarges the legend of the corresponding category. For the stacked bar chart, I have implemented two enhancements. The first is an interactive function where the percentage will be displayed upon mouseover. The second is a starting animation where the bar will gradually fill up to a total of 100%, I had also done some basic stability testing using the “performance” tab to measure CPU and memory usage, which most of the visualisations did not show signs of resource overutilisation. | |
| **What problems have you faced and were you able to solve them?** | |
| I encountered many problems while attempting to implement the dynamic animation, particularly in variable referencing within the “TechDiversityRace” instance. Initially, I mainly referenced variables with “this.” Keyword, which caused many issues. However, it was only after reading through the JavaScript documentation, I discovered that I had to use “self.” instead to refer to the specific value and variable I wanted. The problem was eventually solved and allowed me to proceed with the implementation of the animation. | |
| **What are you planning to do over the next few weeks?** | |
| In the next few weeks, I am planning to add more comments to my code, as well as to test my code extensively to ensure that it functions properly. And to debug the code if any issues occur during testing. | |
| **Are you on target to successfully complete your project? If you aren’t on target, how will you address the issue?** | |
| I am currently on target to complete my project. | |