Enhancement One: Software Design and Engineering

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The project I chose for enhancement one is a program that calculates interest. It was originally written in C++ in June of 2023. It is from CS-210: Programing Languages. CS-210 teaches students how to write C++ code. To meet the software engineering and design enhancement requirements for this project, I converted the C++ code into Python and cleaned up the output format to look more visually appealing.

Including this artifact in my ePortfolio is a good way to show my technical abilities. It shows I can work with C++ and Python. This program is not a memory hog and would be beneficial for thew backend of a webapp. It is not meant to be a standalone application. For this reason, I felt Python would be a better, more usable language, for the program to be written in. While working on the conversion, in line comments were used so anyone looking at the code later can quickly understand what is going on. Doing so helps this enchantment meet one of the course outcomes, which is to design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts.  I created a technically sound Python program. It shows my use of two different industry tools. PyCharm and Visual Studio were used in the conversion. Visual Studio allowed me to test the original C++ code. PyCharm allowed me to efficiently code and debug the new Python code. The use of these tools and my programing knowledge help meet another of the course goals, demonstrate an ability to use well-founded and innovative techniques, skills, and tools in computing practices for the purpose of implementing computer solutions that deliver value and accomplish industry-specific goals.

I was able to meet my planned outcome for enhancement one. I feel like this was a good representation of my current technical skillset. I am still new to programing. My experience thus far has been limited to what I have done at SNHU. I have learned a lot while working on this enhancement. Honestly, I have not needed to work with code in almost 6 months. This project was challenging for me since I had to go back and look at some programing fundamentals in both C++ and Python. This has taught me I need to keep up with coding. It feels like one of those things you need to work on continuously. The more you work with it, the better you get. I spent quite a bit of time debugging the Python code. Thankfully my IDE helped me figure out my issues.

Works Cited

None/Not applicable