**Project Enhancement Narrative**

For my portfolio project, I had to make three improvements to demonstrate my skills as a software engineer. My improvements were to demonstrate advancements in software design, databases algorithms and data structures. This is an overview of what I chose, why I chose it and the various improvements I made to the original project to reflect my skillset as a software engineer.

I selected an original artifact for enhancement that stemmed from a project I undertook during the CS-410 course from my degree program. In CS-410, we were tasked with reverse engineering fully compiled machine code into an uncompiled state using C++. I decided to extend this project by transforming the initial CLI-based software into a comprehensive full-stack web application. Utilizing Microsoft's .NET and Entity Frameworks, I connected the application to an MSSQL database enabling the application to scale and utilize dynamic data.

This project serves as a compelling demonstration of my extensive capabilities as a software engineer. By selecting an original artifact from a challenging course project, I showcased my ability to not only understand and reverse engineer compiled machine code but also to enhance a basic CLI application into a sophisticated full-stack web application. The use of Microsoft's .NET and Entity Frameworks, along with the integration of an MSSQL database, underscores my proficiency in both front-end and back-end development. This choice reflects my dedication to advancing my skills and my readiness to tackle complex software design and implementation tasks in a professional setting.

In reflection, I found that enhancing my project from a previous course was simple thanks to my confidence and experience with similar tasks. I keep old project files handy to reuse modular code, streamlining the implementation of similar functions. This approach allows me to quickly create secure applications using templates from prior works and enables my continual improvement process which involves enhancing related works based on learnings from working on code.