CS499 Module Three Narrative

1. **Briefly describe the artifact. What is it? When was it created?**

My original artifact comes from CS360, Mobile Design and Architecture. The artifact I produced from that class was an Android application that is responsible for tracking a user’s inventory items. The user was able to add/edit items and get mobile notifications when a certain stock was low. This artifact was created at the beginning of the year around February.

1. **Justify the inclusion of the artifact in your ePortfolio. Why did you select this item? What specific components of the artifact showcase your skills and abilities in software development? How was the artifact improved?**

Due to my interest in software development, I’d like to include this artifact in my ePortfolio because it demonstrates my ability to translate a mobile application into a Desktop one. Having the ability to create cross platform applications is a valuable tool when developing software for a large userbase. I believe that the overall design and functionality of the mobile application demonstrates my abilities in software development and through my translation to a Desktop application, will also demonstrate my understanding of multiple languages and how to translate them.

1. **Did you meet the course outcomes you planned to meet with this enhancement in Module One? Do you have any updates to your outcome-coverage plans?**

My original enhancement was planned for a personal project, but with the instructor’s feedback I was informed that it had to be from a previous class or an open-source project. To remedy this, I chose my CS360 mobile application and decided that for the Software Design and Engineering portion of the enhancement, I would translate the application from Java/Kotlin to Python and create a Desktop version of the application. In its current state, I’m demonstrating my ability to outline and plan new software while using best practices such as comments and object-oriented programming.

1. **Reflect on the process of enhancing and modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?**

While modifying the artifact, I came to realize that I never used any comments in my original software and have had struggles with recollecting what certain functions do. In the enhanced artifact, I’m clearly labeling methods with comments explaining their functionality and potential return types. On top of that, I’m trying to follow the object-oriented programming approach of a typical Android mobile application in a desktop application using Python to ensure that I have clean, reusable code.