**CS 499 Milestone Two Narrative**

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

The artifact I have created is from my CS360 Mobile Architect and Programming. The artifact’s name is called the weight tracking application. The purpose of this application is to assist users to track their weight aiding with weight loss or weight gain. The application has many features such as, creating a new account, logging in and logging out of the application, set goal weight, view and add weight entries, and an SMS feature that will notify the user when they have achieved their goal. The application was created in August 2024.

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?**

I chose this artifact for my ePortfolio because it demonstrates my ability to create a functional Android application that utilizes database integration and user authentication. The login feature displays my skill in handling user input, data base queries, and UI interactions. I enhanced the artifact by implementing a try-catch statement inside the loginUser method. The try-catch statement was added to the database query to prevent the application from crashing because of a database error. Additionally, this enhances the user’s experience by displaying an error message instead of leaving them unaware due to the crash.

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?**

I believe I have met the course outcome for the planned enhancement for the software design part. Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound and appropriately adapted to specific audiences and contexts, is the course outcome I believe I have met. 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 (software engineering/design/database), is the other course outcome I believe I have achieved.

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?**

Through the enhancement process, I learned the importance of error handling in software development. Implementing the try-catch block allows me to manage unexpected runtime errors. The only challenge I had was figuring out the best place to introduce the error handling.