# CS 499 Module Four Narrative by Justin Leger

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

The artifact was originally created towards the beginning of August 2025 for CS360; it is an inventory app with a login/register screen and an inventory management screen, and served as the final project for CS360.

* **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 selected this item because Android Studio was particularly challenging for me and I wanted to improve my understanding of the software. The app showcases my abilities in software development with analysis and design, writing plenty of comments, understanding the code, solving problems, working with databases and data structures, and proving that I can learn to code in Android Studio.

The artifact was improved by changing the look of the login and inventory screens, adding new variables, commenting on all of the code, ensuring that variables are updated properly, and creating a sorting method to sort through these items. However, edits added in the app are not updated by the RecyclerView yet.

* **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?**

Design and evaluate computing solutions that solve a given problem using algorithmic principles and computer science practices and standards appropriate to its solution, while managing the trade-offs involved in design choices (data structures and algorithms)

* **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?**

As I was modifying the artifact I faced a lot of difficulty figuring out what the code was doing and why additional code was not working. Ultimately I watched a comprehensive Youtube video on Recycler View and my problems were resolved. What I learned is to start with the basics, especially when dealing with a complex problem.