

CC-499 Capstone Project

3-2 Milestone Three: Enhancement One: Software Design and Engineering

Name: Tyler Strickland

Professor: Fitzroy Nembhard

1. Briefly describe the artifact. When was it created?

The artifact is an Android studio application I made in winter of 2023 for my mobile development class.

What is it?

It's a weight tracking application that records your weight according to a selected date.

2. Justify the inclusion of the artifact in your ePortfolio.

As a up and coming developer I believe this artifact helps show my knowledge of Android development which I believe is a great starting point for my career in software engineering.

Why did you select this item?

I selected this object because it fits well in showing off my capability of using my learned practices in coding to improve a mobile project. A majority of developers will show their abilities in more popular languages such as Python and Java, although I want to present my abilities in Kotlin + Java to stand out in the mobile development market.

What specific components of the artifact showcase your skills and abilities in software development?

My priorities with this artifact lie in it's ability to show off major programming skills that a majority of projects will use such as its use of databases, the flow and processing of data between multiple classes and functions, and it's modularity that allows parts of the code to be reused and repurposed for other projects.

How was the artifact improved?

For the engineering of this project I discluded the use of Google API Calendar and transitioned the use to be of the phone's calendar. This change allows the same functionality of the application, however it doesn't require the device to be connected to the internet to work. This overall just smooths out some bumps of the application and encourages users to utilize more in uncommon situations where internet may be slow or unavailable.

3. Did you meet the course outcomes you planned to meet with this enhancement in Module One?

I believe I have met the course outcomes I planned for, having enhanced the code to function better for easier use of the application.

Do you have any updates to your outcome-coverage plans?

I do not have any updates.

4. 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?

I at first found the logic somewhat hard to understand as I didn't employ any comments in my original code. This helped me follow the flow of code to understand it's logic and build an internal flow chart of the processes.