Enhancement 2 Narrative – Algorithms and Data Structure

The artifact I am working with is my Weight Tracker application, which I created in the Mobile Architecture course. I chose this application as my artifact because I struggled with it in class and was hoping to use it to learn and improve my skills.

For this week, I worked on improving the sorting algorithm of the data. I made it so all of the data entered by the user will sort from oldest to most recent by date, no matter when you are entering the data. I felt this would be useful in general with the application and show my skills with algorithms. My main struggle with this was figuring out exactly what to choose as my enhancement for algorithms and data structure. I felt that something having to do with a sorting algorithm would be best as it would incorporate new skills as well as improve the user experience using the application.

I am working on improving the plans from the Software design enhancement, as well as finishing up the database enhancements. I hope to incorporate user authentication, as well as multiple logins being allowed. Currently, you need to create a new username every time the application is opened within Android Studio. I am working on making it so that login is easier, and the data will be stored every time a user logs in. I am also working on migrating from a DAO database within the application to a remote NoSQL database, hoping this will cover both other enhancements.