**Milestone 3**

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

* The artifact I chose for this milestone was my grocery tracking application from CS-210. I thought it would be a good choice because it uses a database and algorithms to show the frequency and item names of a grocery store’s stock. I made this application when I first started coming to SNHU about 2 years ago.

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 algorithms and data structure? How was the artifact improved?*

* I made a couple improvements to the application related to algorithms and data structure. First, I added a function that allows the program to identify items on the list that have a stock of lower than 3. It will then display a list of the items that are low in stock, so that you may order more of the things you need. The other improvement I made was the ability to add items to the list while using the application. If you select option 6, the program will prompt you for an item name and the frequency of that item. After you enter the information, it will update the list and you will then be able to use that item in the other functions.

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

* Yes, I think I did demonstrate my ability to manipulate algorithms and data structures in a way that allows me to make data driven decisions for the store. I do have a couple more updates I would like to implement in the future. The main one is adding a log in screen, but I’m saving that for the security milestone. The other one is the ability to remove items from the list and/or subtract the frequency of an item in the list. This would allow a store manager to better keep a tally of their store’s stock.

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?*

* Thankfully, this milestone went a lot more smoothly than I anticipated now that I updated what my artifacts were. I guess the main thing I learned this week is that I needed to pick the correct artifact for the job. Originally, I was going to use a computer graphics application to showcase my skills, but after actually reading the rubric for these milestone’s I now understand that It would have been very difficult for me to demonstrate things about data structure in algorithms in that application. That also ties into the main challenge of this week. I had to start over from the beginning and rework all my assignments. It was worth it though. I feel much more confident with the applications I’m working with now, and I’m looking forward to improving my applications even further.