CS 499 Milestone 3

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

I further extended my artifact from a mobile app to a full stack program. It’s an inventory program, that tracks a small list of items. I have enhanced it a bit with a search feature, it uses arrays and maps for a small in memory program database.

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 selected this item because I saw it as a challenge to test my abilities and skills in porting a mobile program into a new language and different features. I included in program arrays for Users and Items within the program, it also uses a Map to keep a small in memory database to hold the users and items. It was improved quite a bit from its original state, before there was no search feature, and the array that was used in the previous artifact, was made so by using a MongoDB’s inner array workings.

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 met the course outcomes that I had planned previously in module one with the inclusion of a simple data structure in my program, with no updates to my outcome-coverage plan.

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?**

This was probably the hardest and longest part of my program, I made it more robust and did a lot of reorganization of the programs, and how they functioned. I included features that were not in the original program, because it was something that I never tried before. I tackled different aspects of JavaScript and HTML that I had never touched before, I think for a culmination of my abilities, I have improved in a lot of different ways in my skill set and ability to troubleshoot and problem solve. The biggest challenge similar to my last milestone, is just time, when I get behind for a week it kind of snowballs into further weeks, trying to catch up is the biggest challenge that I have faced.