**5-2 Milestone Four: Enhancement Three: Databases**

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In this narrative I will provide an overview of my third artifact, that being the category of databases. I will describe what I used and how I enhanced it. I will do this by first describing what the original artifact is and when it was created. Next, I will justify the including of the artifact into my ePortfolio, why I selected the item, what specific components I wanted to showcase and how the artifact improved. Then, I will state How I met the course outcomes I planned to meet in module one. Then, I will state if I have any update to my outcome-coverage plan. Finally, I will end this reflection by reflecting on the process of enhancing and modifying the artifact.

In this first paragraph I will describe the original artifact and when it was created. The original artifact was from my class IT145: Foundation in Application Development. This final project was a paper where one of the tasks I did was to complete pseudocode for a java database. This java database was to obtain information for a pet hotel that could watch your dogs or cats. This class was taken very early on in the coursework I completed to get my bachelor’s degree. Looking back at my academic evaluation, I completed this class in the winter of 2022.

I included this in my ePortfolio because I thought it was a fun way to show how my skills have improved from theorizing code, to actually writing it. I also selected this item because it was a fun platform for making a database. The specific components I wanted to showcase was the ability to write java code, write clean java code, incorporate simple logic, and finally incorporate data mining into the code. I improved this artifact by writing it and by adding datamining into the logic.

The course outcomes that I said I wanted to meet for this artifact in module one was the first, third, and fourth course outcomes. I believe that I have covered the first course outcome, which emphasizes building a collaborative environment that enables diverse audiences to support organization decision making. That is because I made a data mining output that displays values for making the business better. That means that people who may not have written the code or built the logic, can have a hand in making organization decisions; by viewing the data sheet. I also believe that this design uses algorithmic principes and computer science practices to accomplish the solution. Finally, I doo believe that I demonstrated well-found techniques that implement computer science solutions. Those being arrayed lists and simple logic in the java language.

Finally I will reflect on the process of enhancing and modifying the artifact. This was fun to write this program, I enjoyed expounding on simple work I created two years ago. What I learned during this process was creating data mining. I had never actually done direct data mining in my programs before, so it was a good mental exercise working on it. The challenges I faced was to incorporate the data mining. I had to do research on how to write that type of code and some of the coding best practices that came along with it.