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

This artifact is an open-source inventory system that I found. I thought that it could demonstrate both my database and data structure knowledge. I have always had a deep interest in inventory systems and the different functions that you are able to do with one.

**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?**

When I looked at this inventory system, I looked for the CRUD functionality that we have previously talked about in the databases and data structures. I noticed that the system had the create, delete and update functionality, but it was missing the read ability. Since I have not used PHP, I thought venturing into another language would also be a plus to really show what all I am capable of achieving. I have created the read function for some of the files within the inventory system including the sql, config, functions, session, upload and database files. I have also included the read functions in the load file so that they are able to be loaded by the main file.

**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 was able to show my understanding and grasp of the CRUD functionality which is tied into the data structures. I was also able to enhance the ability of the program to add some new features, the read function.

**Reflect on the process of enhancing and/or modifying the artifact. What did you learn as you were creating it and improving it? What challenges did you face?**

I learned that the read function had to be tied into multiple files including the load.php. Without including it in this file it didn’t work with the main function and wouldn’t pull the read ability. I also learned how to read a file in PHP since this language is new to me I was able to learn more about the specific syntax that PHP requires to be able to add this functionality. I was also able to read over the existing code more closely and see how other functions were called especially how the database is utilized in the database.php file.