Artifact Two Narrative:

For artifact two the project came from CS260 Data Structures and Algorithms. The project originally was a vector sorting program. The program would parse the information from a CVS file and populate a vector. Then the user could choose between different sorting functions or just is playing the vector information.

Though the program was originally just allowing the user to load and sort through the information in the file. It would be better if it was added to a database, since that would allow for the information to be searched through or sorted based on the type of data in the database. For this I started by creating a mongoDB database, collection and then populating it with the data from the CVS file. I selected this project because by creating a dashboard application and a mongoDB database to replace the original project would allow for a better user experience rather than performing all function in a terminal. The dashboard basic functions show the skills of being able to pull and search through data in a database. The function that allows the user to update the database via the dashboard also shows the skill to link the application to the database for future changes and adjustments.

During the process of creating the process creating the dashboard the basic dashboard was straight forward to create. It was just a basic process of pulling the information from the database and creating a data table to display. The issues came about when deciding if I wanted a delete, create, and update function. When looking back at the data I ended up deciding to just create an update function since the program was being used to view older data. Then I ran into the issue of how I should allow the user to update the database. Since it had been a while since I had worked with dash and its function, I had to do a lot of research. My first attempt at generating the update code would have required the user to pick a pick and auction id and then use a drop down to select the column and finally put the new data into before clicking update. This process appeared very straight forward at first but after some time I realized this was a lot of steps to put into the process when I could update data it from the data table itself. After looking through some forums and I found it was easier to just use a client-side function to temporarily hold on to the data of the selected cell and the update data and then update it via an update function. This simplified the process the user would need to go through just to update the database information.