Enhancement 3 Narrative

The artifact I have chosen for databases is the project 2 dashboard from client server development class. This dashboard is the user interface for an application that allows users to see what kind of dogs are currently in the shelter and what traits they have including breed, gender and age. This way the dogs can be chosen to be trained in search and rescue. The user interface before enhancement allowed users to view the results of the dogs that are in shelters. Users can filter results using radio buttons. The interactive table also has a pie chart that changes based on the results displayed.

I picked this artifact for the eportfolio because it demonstrates a dashboard that is being used as a user interface. This is also an example of an opensource project because the code was meant to be freely available so that other organizations could utilize the code for their own needs. This dashboard also utilizes a module crud module that allows for creating, reading and updating entries in a database. This application is also created with python and utilizes dash. It is an example of an application utilizing a module that was created separately. The artifact was improved by changing the pie chart into an exploding pie chart. This was done using the pull trait to make the chart look more interesting and eye catching. Another enhancement was changing from radio buttons to dropdown to allow multiple selections to narrow and widen search results. This allows the user greater control over the search results. All fix me comments were deleted to ensure others working on this project know that there are no tasks that need to be completed.

This narrative meets the course outcome “Design, develop, and deliver professional-quality oral, written, and visual communications that are coherent, technically sound, and appropriately adapted to specific audiences and contexts”. This is because this narrative is designed to allow employers to understand the enhancements made to the project. This narrative is technically sound and written in an informal and professional manner. The enhancements I have made support the outcome “Employ strategies for building collaborative environments that enable diverse audiences to support organizational decision making in the field of computer science”. In this example the project is being made open source so other organizations can use this dashboard and crud module. Other organizations have access to the source code so they can use and adjust it as needed. The code is well commented to allow others viewing the source code to know what each section is for and allow them to understand it. It also allows other people collaborating or decision makers to understand what each section of code is for and what it does.

The enhancement process was an interesting learning experience. I learned that sometimes plans need to be adjusted as new things are learned or a better understanding of the project is obtained. For this project I wanted to use radio buttons to allow for multiple selections but after understanding dash better I decided to adjust the plan to have use drop down menu instead to allow for multiple selections in order to narrow or widen search results. A drop-down menu is a prebuilt option in dash. This saves time and is more effective. I learned that flexibility is key when enhancing or working on a project because sometimes a better solution is found or learned about during the coding process.