CS499 Capstone

5-2 Milestone

May Carson

Enhancement Three: Databases

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

My artifact is the database in the Contact Management System as a CS320 project. This project uses a sorting algorithm to manage contacts. It was created in the October to December course term in 2024.

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 chose this project because I believe it demonstrates my ability to code a program that can sort data quickly and efficiently. This project specifically highlights my ability to code a program when tests are run, will output a list of contacts for the company. I want to enhance my error handling to ensure that the database can connect properly and validate my data.

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 have meet most of my desired outcomes as I have implanted many of the coding principles that I missed the first time I did this project. Connecting to the database itself has posed a challenge. I plan on restructuring my code with the aid of a tutor. I am confident in my ability to allow my program to run correctly, as I have done in the past. I have chosen to dedicate multiple days in week 7 to ensure my project is running and I can run the proper tests.

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 process has been a bit frustrating, as there are many ways to improve on code, but that doesn’t mean that they are structured well or even work. I have tested many ways to enhance my project, and it goes well, but unfortunately fails at one step, and I must start over. I have had issues with getting my feet on the ground, but I have found some help through the school and GitHub, so I’m excited to test them. I didn’t understand why my test kept failing, but I have been given some way to try to fix it.