Elissa Jennings

CS499

Narrative 1

3/23/25

The artifact I chose was Project Three from CS210, C++. Its original function was to take an input file, read the contents and output how many of each item is in the file. I don’t remember exactly when this program was created but it was probably in late 2023 or early 2024. I included this artifact because it has a good base functionality to turn it into a program that does more with data. I wanted to be able skills with CRUD operations and how to take data from different files, transform it, and eventually add the data to a database. The artifact was improved by adding more functionality. It can now create new data, read data, update data, and delete data. It also demonstrates skills utilizing different data structures such as vectors and maps.

I met most of the course outcomes with the enhancement. I wanted to add more validation to different functions but would run into issues on the program not working. My first goal is to have code that functions appropriately. I also feel my code is slightly clunky and could probably be more innovative than it currently is. I did meet the course outcome number three and mostly met course outcome number four.

I found while enhancing this project that I was able to work through issues better and be able to debug better than when I originally made this artifact. I really struggled with coding when I first started but feel like I have come a long way. Although I have miles to go before, I feel truly competent in programming. Also testing after each line of modification and after each function creation made it so much easier to find issues and rectify them quicker.

**Status Checkpoints for All Categories**

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| --- | --- | --- | --- |
| **Checkpoint** | **Software Design and Engineering** | **Algorithms and Data Structures** | **Databases** |
| **Name of Artifact Used** | Artifact Name: Project Three, utilizing functions to process file data.  Origin: CS 210, C++ | Artifact: Project Two, Junit Testing  Origin: CS320, Software Testing | Artifact Name: Project Three, utilizing functions to process file data.  Origin: CS 210, C++ |
| **Status of Initial Enhancement** | Completed. | Planned but not completed. | Planned but not completed. |
| **Submission Status** | Submitted 3/23/25. | Not completed. | Not completed. |
| **Status of Final Enhancement** | Not completed. | Not completed. | Not completed. |
| **Uploaded to ePortfolio** | Not completed. | Not completed. | Not completed. |
| **Status of Finalized ePortfolio** | Not complete | Not complete | Not complete |