Mao Christie

September 21, 2025

CS-499

Milestone Two Narrative

This artifact is project 1 from class CS-320. It was made roughly one year ago in the Java language. It contains 6 classes, with accompanying tests as well. The artifact creates contacts, tasks, and appointments, as well as lists of those objects, which can be updated, created, or deleted.

This artifact was chosen because of its multiple classes and extensive testing. Converting this project with the different classes into another language would showcase the ability to use well-rounded and innovative techniques and skills. This will be shown by the ability to read, write, and understand multiple languages, as well as convert a coding language into another. The artifact was improved by expanding on proper documentation and making the structure of the code consistent.

The planned course outcomes were met, except for course outcome #1. After review, the planned enhancement does not include any strategies for building collaborative environments. However, it does meet course outcomes #3 and #4. The process of enhancing and modifying the artifact has been challenging but rewarding. In the process of converting the artifact into the C++ language, new techniques and skills had to be used. The Java language, in which it was originally created, has a Date package that can be easily used once imported. The C++ language, however, does not, and a challenge has been creating a Date attribute for the Appointment class. Another challenge is that the C++ language does not have a built-in unit testing method like Java. This

means there is a need to find and learn how to use a framework for the C++ language to incorporate into the artifact. The challenge with the Date and the testing has not been completed yet.