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Milestone Three Narrative

The artifact I’m enhancing for this milestone is a project from my CS-320 class that is built of six different classes: A Contact, Task, and Appointment class, with their own respective Service classes for each. This project was written in Java originally, and my first enhancement was to translate it into C++, and begin adding a main menu to interact with the classes as an application.

My second enhancement is to complete the main menu as well as add appropriate sub menus for each of the classes in order to interact with them and add, edit, delete, and display the data each class stores. So far, I’ve completed the implementation of the sub menus themselves, but need to integrate each class into the menus in order to allow manipulating the data.

The reason I’m using this artifact for each enhancement is because it was a good starting project from a previous class that had plenty of room for improvement. It being just a set of java classes that didn’t actually run, but rather were created in order to learn how Junit testing is done, allows me a lot of freedom to take the code in a lot of different ways, like the direction I chose initially, that being to convert it into C++ and then add a main command-line style menu to allow a user to actually interact with the code as an application.

Currently, the program doesn’t really contain any algorithms, and the data structures being used are just vectors to store the data, but alongside the inclusion of the third enhancement, I should be able to meet my goal of showcasing my skills in data structure by connecting the program to MongoDB in an efficient manner. On top of that, I’d also like to implement some method of searching and displaying a certain number of data entries as well.

The main issue I faced while modifying the artifact is getting used to C++ syntax again. I’m most used to using Python personally, so remembering how exactly things are done in C++ did take some time to recall, but there’s plenty of ways to get refreshed on it, thankfully.