**Final Project Statement of Work Template**

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| N/A (Working Alone) |
| Aaron Hough |

**Group Number:**

**Group Leader:**

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| Aaron Hough |

**Names of Group Members:**

**Summary of what your program will do (be very specific):**

**The program I will be creating will be an ATM. It will have a login and registration system, with functions and classes that involve depositing or withdrawing money, as well as a password system where someone can recover a forgotten password. There will be a main menu UI that contains all essential information that can be sorted and searched through.**

**I did a similar program to this last semester for the previous C++ class, however I think I could make it much more efficiently now with my increased understanding of C++.**

**Decomposition with Assignments:**

Use the space to list the decomposition or outline of your program. Next to each section, provide the name of the student who will be working on that portion.

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| **Decomposition** | **Responsibility** |
| Literally everything:  At least 3 user defined C++ class including Class inheritance w/polymorphism Class composition At least 2 overloaded operators The defining and use of at least one user-defined template class  At least one user-defined function that performs searching At least one user-defined function that performs sorting Use of at least one Standard Template Library container (e.g., vector, queue) which is used in an iteration of its contents Dynamic memory allocation (and deletion) in some form At least one use of exception-handling (does not have to be a custom class) Reading and writing of data to a file I/O to/from the console Comments that convince the instructor you understand the code you wrote GitHub repo that contains all relevant source code and text files | Aaron Hough |