**Final Project Statement of Work Template**

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| Liam Wilkie |

**Group Number:**

**Group Leader:**

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| Carter Rock and Liam Wilkie |

**Names of Group Members:**

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

The final project our group wishes to create will explore and expand upon the Filesystem library which was introduced in week 11. The program will allow you to navigate the file directory of your computer with a good UI and say rename all the files in a folder and record all the files in a folder and write them to a Json file after say sorting them by size or last write time. The program could also allow you to search for file in a folder/subfolder based on what you input, and it could then also allow you to select a file and read that file to the console if possible. It could allow you to copy only files that start with what ever you input and then paste them to a location of your choosing.

**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** |
| This Decomposition is somewhat arbitrary and may vary |  |
| At least 3 user defined C++ classes with Class inheritance w/polymorphism, at least 2 overloaded operators, The defining and use of at least one user-defined template class | Both |
| At least one user-defined function that performs searching | Liam |
| At least one user-defined function that performs sorting | Carter |
| Function that reads a file | Liam |
| Function that writes to a file | Carter |
| Function that renames files | Liam |
| Function that copies files | Carter |
| The main function – calling other functions/user input likely to take place here | Both |