**Final Project Statement of Work Template**

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| LaDawn Stuben |

**Group Number:**

**Group Leader:**

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| Wayne Williams, Philip Seros, LaDawn Stuben |

**Names of Group Members:**

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

**The program, "Household Tasks Manager," will allow users to create, manage, and track household tasks on a daily, weekly, or monthly basis. Users can define tasks with descriptions, set priorities, and due dates, and assign them to different household members. The system will support notifications for upcoming tasks and deadlines and allow for modifications and deletions of tasks. Tasks can be tagged as one-time or recurring, with special handling for recurring tasks to automatically update based on their set frequency. The program will include features such as task sorting by date or priority, and an interactive GUI developed using wxWidgets (hopefully, if you say we can) for ease of use and accessibility.**

**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** | **Requirement Met** |
| **GUI Design and Implementation**  -Designing the main window and task dialogs  -Implementing user interaction handlers | LaDawn Stuben | I/O to/from the console |
| **Task Management Backend**  -Developing classes for Task and User | Philip Seros | -class inheritance w/ polymorphism  -class composition  -at least 2 overloaded operators |
| **Data Persistence**  -Handling file read/write operations  -Managing dynamic storage data  -Integrating with classes | Wayne Williams | -read/write data to a file  -use of STL container (vector)  -dynamic memory allocation |
| **Search and Sort Functionality**  -Writing search functions  -Implementing sort functions | Philip Seros | -user-defined function that performs sorting/searching |
| **Exception Handling and Integration**  -Integrating Gui with backend  -Testing and exception documentation | LaDawn Stuben | -exception handling  -github repo maintenance |
| **Documentation and Code Understanding**  -Preparing screen caps and adding comments  -Conducting final user acceptance testing | Wayne Williams | -comments explaining the code  -required screencaps |