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| ***TEAM 1*** |  |

Proposal for Term Project – 90.308, Summer 2014

Project Proposal

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| Date | Team Members: |  |
| June 5, 2014 | Daniel Bendig  Olga Karaseva  Jeffrey Blodgett |  |

**Application Title: “File Sieve”**

**Summary: Utility for identifying and managing duplicate files, copying a selected set of files/folders from one location to another.**

■ **Swing-based GUI (Graphical User Interface)**

■ **Business Logic**

● What will the program to do? (***listed in order of desire***)

* Identify and permit deletion of duplicate files found in a given folder
* Ability to copy selected files, along with one or more duplicated files, from the given (source) folder to a target folder
  + Optional feature up for consideration (given time):  
    Multithreaded files copies (ideal for copying over a network connection). One thread per file and/or multiple threads per file.
* Ability to compare files within two folders and copy those that are missing or have changed from one to the other (folder sync)

● What problems will be solved?

* Overcome the 256-character pathname limitation inherent in Windows Explorer and copy utilities based upon Windows APIs. This will greatly assist with the copying of folder hierarchies on one computer to another or one folder to another. Users frequently surpass the 256 char limit. We will need to ensure the underlying copy mechanism is not *too* native.
* An ability to identify and delete duplicated files to save space. Users are notorious for creating backups of backups of backups.

■ **Persistence**

● What data is saved?

* UI preferences: window location, last screen used within a multi-monitor layout, last scanned source and target folders
* Ability to exportable a file list, with identified duplicates, to text file.

● How is it saved and accessed (read and written)?

* UI preferences saved/loaded automatically at program startup/shutdown via serialization/deserialization of a data class made for this purpose. Data file will be save in a user-profile specific application data folder with support for Windows, Linux, and Mac operating systems.