



# Backup Manager<sup>5/11/12</sup>

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## Problem Definition

- Everyone eventually makes a backup of something. Some regularly generate backups while for others, it is a rare option
- Backups are generated by mostly everyone ranging from Organizations, to Businesses, to Students
- Complete Proposal by May 11, 2012 and have a “working” program by June 8.
- Resources used will be:
  - Personal computer
  - 4 weeks of time
  - Google
  - Classmates



## Research/Analysis

- Many free and paid backup solutions exist
- Most software offers auto/custom backup schedules, mirror or incremental, version control, and backup compression
- Some software offers abilities to sync with existing backup software
- Didn't see anything specific related to “organizing and merging” existing files and backups

## Proposed Solution

- Create a program using C++ or Java that would simplify file backup and version control
- Instead of just “backing-up” all files on selected drives, the program will analyze all files and directories for duplicates and “similar” directories/files
- Provide an analysis page while will display file/directory statistics such as which files are manipulated most often
- Future: set up version control to monitor changes to files (even if similar file is modified in different locations)

## Potential Applications

- Reducing amount of “back-up” data by removing duplicate “back-ups” and combining similar directories
- Possible version control
- Generate reports about “popularity” and “file-manipulation frequency” for files in directories

