

Campbell Lang

CMPT 220

Project 2 Proposal

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File Compression System:

File size has been a problem plaguing the world. From emails to submitting assignments, file restrictions have placed a heavy toll on sharing size. Even if the file is within the allowable limit, some internet connections and/or low-end systems make it difficult to send. The ability to compress such a file down so that no information may be lost, yet the file size is significantly smaller, would allow large files to be sent. Because java is such a portable program, users would be able to easily access the program, then a java program can be created that will shrink the file down. To complete this, an algorithm that shrinks the file, enough for it to send, will be created. But now that the file is compressed, certain items might not be accessible. That is why for a better system, an implementation of a backend action that puts the file back to its original size.

The program will allocate certain 'blocks' for the data of the file. If a 'block' fills up, then the program will allocate another piece of memory to put the data in. By putting data into these sections, it will cut down the necessary data for the system to keep. Converting the data file from ROM and storing in a JVM will severely cut down on the amount of stress put on the machine. With less memory being accessed, then the machine can be more efficient in other tasks as well. There might be redundancy in the code, so in order to eliminate repeat code, methods can be created to store instruction sequences.

In order to run the file compression program, the user would have to have a java program installed, the ability to run a Java Environment, or at a bare minimum a java compatible system.