

Final Project 2

Prof. Juan Arias

CMPT 220

FINAL

Abstract:

The current work is a programming system that compresses and decompresses files of various types into specified end-user locations.

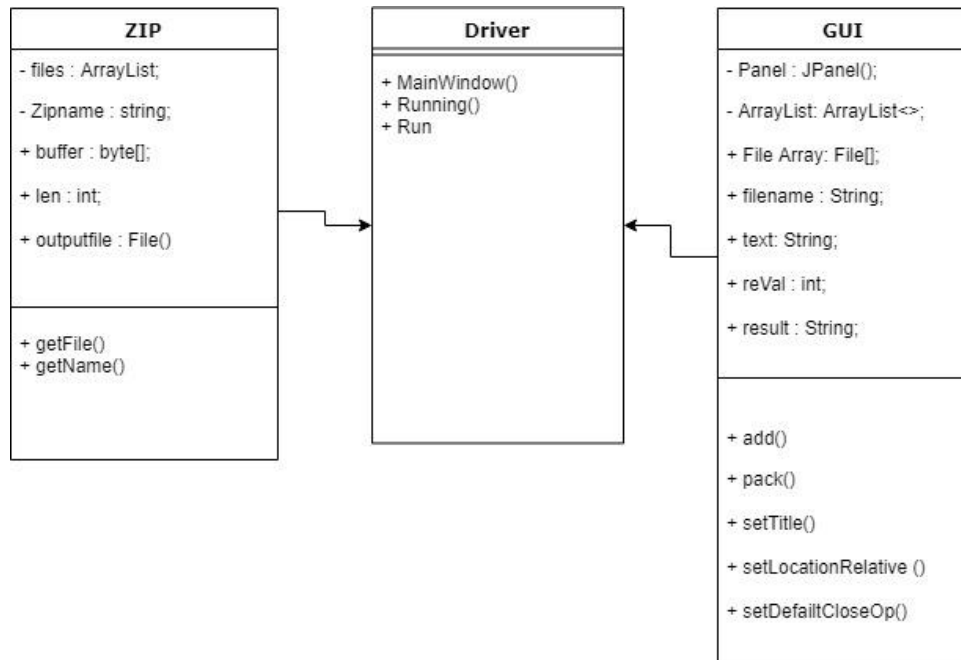
Introduction:

Many people who use computers are not aware of the importance of file compression. Normally, high end programs that deal with uploading user files are already using compression services to do just that. However, many services have strict size constraints and emails typically only allow 25mb. This simple program will allow users to compress any string-based files to one another using a simple GUI.

Detailed System Description:

The system, when ran, will open a simple GUI interface for the user. The prompt will offer the user to search for a file, or files, to be compressed. The system allows for several files to be queued at once allowing an ease of use experience. Once all files have been selected, the user is then prompted with a second option to choose a directory to which the newly compressed files will be placed. The process runs for a few moments before completion. This can be done

repeatedly until any and all files have been compressed. The same holds true for the decompression that is to be implemented closer towards shipping. (UML)



Requirements:

The system is addressing the casual demographic of computer users who are unaware of the importance of data compression and those who rely heavily on major companies to do these services for them. Because it is not widely understood at first glance the requirement for data compression, this simple program grants users to undergo the simple process themselves and be able to manually pick and choose what their file requirements are. Many users who wish to store movie files or even book libraries would prefer they have it stored locally rather than the cloud. Here, this program will allow them to save space on their own drives with the use of file compression.

Literature Survey:

Two major players within the file compression service market are 7-Zip and WinRAR. These two programs will automatically extract or ZIP a series of files for the same reasons the program in question will do. However, such programs can be complex and are heavily reliant on computer knowledge to make further use of them beyond what's intended by the user. Normally, a user will only download these tools to extract a file but might not ever use them to compress their own for personal reasons.

User Manual:

The system should be used only for the personal compression and decompression of files. The program can direct compressed files into encrypted directories and away from main cd pathways often recommended by the OS.