



Overview

The above activity diagram details the process flow of the voting system and how those processes relate to the 5801 Voting System's systems. Once a user provides a file, it is either valid or not; to be a valid, the file must be of CSV format and be of either OPL or CPL voting type as described in the [project description](https://bit.ly/323Uj8o)¹; a file is invalid if it is not of CSV format, does not represent OPL or CPL voting type, or does not represent a valid file path. If for any of these reasons a file path is deemed invalid, it will return to the Display system an error. If the path is valid, the data is read into their designated data structures. Once the data is effectively stored, it will be determined to either be OPL or CPL; if the path is OPL, the data will be converted to a CPL format, this process is handled by the File System; if it is CPL, the data will be unchanged. Once the data is represented in CPL, the results of the election are tabulated, handled by the File System. If one or more ties are found, they are resolved by the File System. Once all ties, if any, are settled, the Voting System will create the media and audit files, using the data collected and tabulated by the File System. Finally the Display System will output the result to the terminal window, whether that be the results of the election or the error produced from an invalid file.

1. <https://bit.ly/323Uj8o>