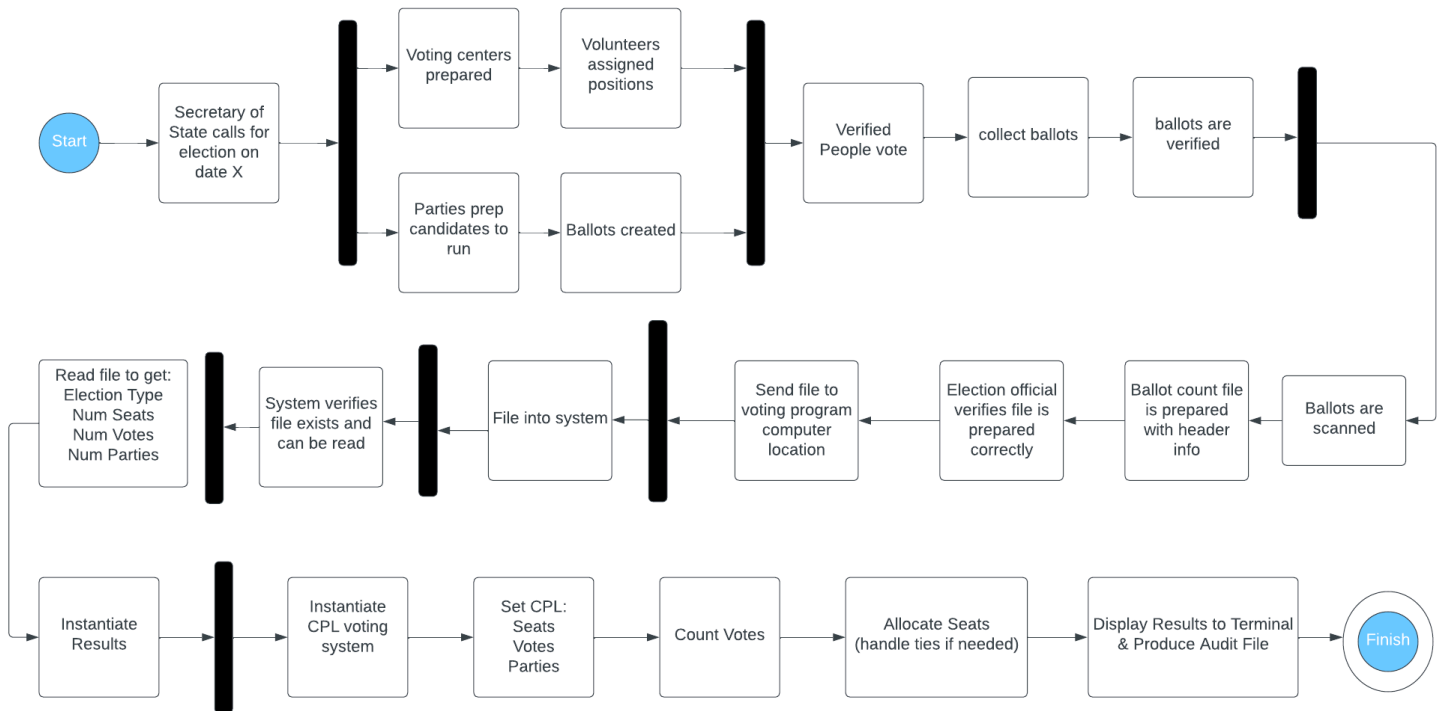


## Team 7

### SDD Activity Diagram (CPL Election announced to winner declared)



#### Overview:

The activity diagram outlines the sequences of actions from the start of the election to the final display of results. The black bars represent where multiple activities either converge to move forward in the election process or diverge such as setting up the voting system and counting votes. The process begins when the secretary of state calls for an election, which leads to the prep of voting centers, assignment of volunteers, etc. Voters are verified and ballots are then collected and verified.

Afterward, on the system side, the voting file's existence and readability are confirmed and the file is opened. Essential data such as election type, seat number, votes, and parties are read. Then the file is closed and results are instantiated. The CPL voting is set up with the retrieved data. Afterward, the system counts the votes and allocates seats. It also handles any ties if necessary. Then results are displayed to the terminal and an audit file is produced.