

Product Backlog

As the developer of the voting system,
I want the system to be able to handle user input errors
So that input errors will be captured after the file is input.

- Acceptance Criteria:
- Incorrect algorithm choice is captured if the first line of the file is not "p" nor "s"
 - Incorrect number of seat information is captured if the second line of the file is not a positive integer number
 - Incorrect report option is captured if the third line of the file is not "y" nor "n"
 - Passes all unit tests
 - Passes all scenario tests with boundary setting csv files

Effort: Small

Velocity

As the product owner,
I want both plurality and STV to work properly,
So that election results can be calculated.

- Acceptance Criteria:
- Plurality works properly
 - STV works properly
 - Passes all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Small

As the developer of the voting system,
I want to be able to determine shuffle option,
So that I can use for testing and make sure the election is fair.

- Acceptance Criteria:
- Check if command line contains a third argument for shuffle option
 - The default shuffle option is turned on
 - Be able to let the developers to pass in on/off after the file name to indicate the shuffle option
 - Passes all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Small

As the user of the voting system,
I want to input a CSV file,
So that nothing else is prompted.

- Acceptance Criteria:
- Be able to prompt user to input file name
 - Be able to parse the file
 - # ballots is less than 10000
 - Each line represents one type of info
 - PPasses all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Small

As the user of the voting system,
I want to run the voting system by parsing in a command line with the file name,
So that the system can be run with just a command line argument.

- Acceptance Criteria:
- Be able to handle command line argument
 - Be able to parse the file
 - Each line represents one type of info
 - Passes all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Small

As the election official,
I want to make sure to only count for ballots that have at least half of the candidates ranked,
So that ballots that do not meet this standard are determined to be invalidated when the election is run.

- Acceptance Criteria:
- Be able to catch invalidated ballots during the process of running the voting system
 - Be able to calculate the ratio between the rankings and the number of candidate for each ballot during each vote distribution
 - Passes all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Medium

As the election official,
I want to have a short report in addition to an audit report
So that the short report can be printed and given to the election certification officials.

- Acceptance Criteria:
- Include date, type of election, the candidates, # seats and the winner of the election
 - No losers list is included in the short report
 - Passes all unit tests
 - Passes all possible cases specified by the csv files
- Effort: Small