Product Backlog Sprint Backlog In Progress Completed Not Started 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 Code the STV Code the plurality As the developer of the voting system, I want to be able to determine Update documentation for the parsing method Code the inputting shuffle option part Modify the parsing method 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 Write unit tests for determine shuffle option and shuffling ballots Case testing Effort: Small As the user of the voting system, I want to input a CSV file, So that nothing else is prompted. Acceptance Criteria: 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

• Passes all unit tests

• Passes, all possible cases 3 Write unit tests for parsing file Passes all possible cases specified by the csv files Cases testing 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 Cases testing

- 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

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

6

Code to identify the exact number of valid votes for a ballot. code to identify invalidate ballots

Cases testing