Final Product Backlogs

1:
As an election official, I want the correctness of election information to be validated when reading in the csv file, and any information other than election information(seats, ballots, candidates, algorithm) should be discarded, so that I can have the correct result returned back.

Acceptance Criteria:
- The only (potential, see other PBI on file reading) input should be the file name
- Program is able to read and only read election criteria from the CSV file
- Program discards all unneeded information and inform user
- Program ensures that all information got read in is valid
  - If not, program informs user and prompts them for missing input
- Program store all input into classes and variables successfully

Effort: Medium

2:
As an election official, I want the program to be able to run in a timely manner so that it can quickly find the results of an election with a large number of ballots to be read.

Acceptance Criteria:
- The program can run as quickly and efficiently as possible.
- The program can handle processing a large number of ballots, up to the hundreds of thousands.
- The program should be able to generate and export results in a reasonable amount of time (let's say less than a minute, ideally around 10 seconds max).

Effort: Medium/Large

3:
As an election official, I want to see the progress of election as well as the election result, so that I can track the process of election.

Acceptance Criteria:

- The program prints election information to the screen in each iteration
- For plurality algorithm, the program should output the tallies for each candidate as the election goes
- For droop algorithm, the program should output the updated information on winners and losers list for each pass
- Generate error message if error occurs during execution

Effort: Small

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4:

As an election official, I want a GUI that allows me to input ballots into the voting system directly so that eventually the ballot information can be sent straight to the system without the external medium of a CSV file.

Acceptance Criteria:
- The user is able to manually add ballot information to the voting machine through a graphical user interface.
- The system has some way of checking and storing the input ballot information.
- The added ballot can be used in the same way as other ballots which are read in from the CSV file.
- The GUI is nice and easy to use, and user friendly.
- Generate error message when error occurs during adding the ballot, or if ballot information is incorrect.
- Ballots can either be manually input through the GUI, read from a CSV file, or a combination of both.

Effort: Extra Large