PB #1::
As a Election Official
I want to be able to run a CPL election without any errors disrupting the program
So that it can work with any size of an input file

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): A CPLElection can be run with

Definition of Done (what is required by the team before sending out for review): Make sure that the CPL election can be run on IntelliJ other than just VSCode.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Danial

PB #2::
As a election official
I want to be able to break a tie between 2 or 3 candidates
So that candidates are being treated fairly

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): If a tie occurs, a tie breaker is commenced and fairly chooses one candidate

Definition of Done (what is required by the team before sending out for review): Tie breaker method is thoroughly tested and documented on possible edge cases or limitations.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Danial

PB #3::
As a Election official
I want to be able assign all seats in an election
So that I can create a proper Closed Party Election

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): Results in audit and displayed should show all seats have been allocated.

Definition of Done (what is required by the team before sending out for review): compareRemainders() allocates seats based on remaining votes of a candidate after the first wave of allocating seats.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Small

PBI Author(s): Danial

PB #4:
As a Election official
I want to be able to run the CPL election on IntelliJ
So that it is compatible with other IDE's other than VScode

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): A CPL election is run properly by creating an audit and deciding a winner on IntelliJ.

Definition of Done (what is required by the team before sending out for review): Remove possible conflicting code(if any) and add further clarification on how to run CPL (with a given input file, specifically about where that file is stored).

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Small

PBI Author(s): Danial

PB #5: GUI Window Option
As an Election Official,
I want the CPL election program to have a GUI window option,
so that I can easily navigate and interact with the program.

Acceptance Criteria:

The CPL election program includes a GUI window option.
The GUI window accurately reflects the program's functionality.
Definition of Done:

The CPL election program includes a GUI window option.
The GUI window is tested and verified to work accurately with the program's functionality.
Effort: Large
PBI Author(s): Mohamed

PB #6: Multiple File Input Option
As an Election Official,
I want the CPL election program to have an option to input multiple files at once,

so that I can save time and effort when processing large numbers of files.

Acceptance Criteria:

The CPL election program includes an option to input multiple files at once.
The program accurately processes all the files inputted.
The program produces accurate results for all the inputted files.
Definition of Done:

The CPL election program includes an option to input multiple files at once.
The program is tested and verified to accurately process all the inputted files.
Effort: Medium
PBI Author(s): Mohamed

PB #7: Terminal Stats Display Option
As an Election Official,
I want the CPL election program to show stats in the terminal rather than just audit,
so that I can easily access and analyze the program's results.

Acceptance Criteria:

The CPL election program includes an option to show stats in the terminal.
The stats displayed accurately reflect the program's functionality.
The program produces accurate results for all inputted files.
Definition of Done:

The CPL election program includes an option to show stats in the terminal.
The stats displayed in the terminal are tested and verified to accurately reflect the program's functionality.
Effort: Small
PBI Author(s): Mohamed

PB #8:
As an Election Official
I want to be able to see a table that shows how the votes were distributed each round of the Instant Runoff Election once the program has finished running
So that I can see how the election progressed and who got how many votes and the different rounds

Acceptance Criteria: A table displaying the distributions of votes each round to candidates is displayed to the election official after running the IR algorithm

Definition of Done the function is tested and the test cases pass; A method to display the table at the end of the IR election is created

Effort: Medium

PBI Author(s): Omavi

PB #9:
As an Election Official
I want to be able to require that at least half of the candidates on my Ballot must be ranked for the Ballot to be valid
So that I could add a specification of what is a valid Ballot and what isn't to ensure the integrity of the IR election

Acceptance Criteria: The Ballot class has to be updated to accept candidate rankings; the Candidate class must be updated to have a parameter for rankings

Definition of Done the functionality has a test class in which it is tested and the test passes

Effort: Small

PBI Author(s): Omavi

PB #10:
As an Election Official
I want to be able to automatically remove invalid Ballots from the election and stored in another file
So that I could ensure the integrity of the election by removing invalidity and audit the invalid Ballots
Acceptance Criteria: There must be another constructor for the Ballot object to denote the invalid Ballots; There must be a method in the IR Election class to identify and separate invalid ballots; The invali ballots are parsed to a new file at the end of the IR Election

Definition of Done the functionality has a test class in which it is tested and the test passes

Effort: Medium

PBI Author(s): Omavi

PB #11:
As an Election Official
I want to be able to get the correct winner of an Instant Runoff Election no matter the input or circumstances

So that I could ensure the integrity and validity of the Instant Runoff election

Acceptance Criteria: The code for the IR election algorithm in the electionIR method is debugged and fixed to produce the correct winner for any input

Definition of Done the functionality has a test class in which it is tested and the test passes

Effort: Small

PBI Author(s): Omavi

PB #12:
As an Election Official
I want to be able decide a tiebreaker of an IR Election via a flip-a-coin process

So that I can unbiasedly decide a winner for the IR Election when a tie arises

Acceptance Criteria: A flipCoin method is created in the IR Election class; that method is implemented to randomly select a candidate that wins out of two

Definition of Done the functionality has a test class in which it is tested and the test passes

Effort: Small

PBI Author(s): Omavi

PBI #13:
As a Election Official
I want to be able to run a Popularity Only election without any errors disrupting the program
So that it can work with any size of an input file

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete):
A Popularity Only Election can be run with

Definition of Done (what is required by the team before sending out for review):
Make sure that the Popularity Only election can be run on IntelliJ other than just VSCode.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Nabeel

PB #14::
As a election official
I want to be able to break a tie between 2 or 3 candidates in a Popularity only election
So that candidates are being treated fairly

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): If a tie occurs, a tie breaker is commenced and fairly chooses one candidate

Definition of Done (what is required by the team before sending out for review): Tie breaker method is thoroughly tested and documented on possible edge cases or limitations.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Nabeel

PB #15::
As a Election official
I want to be able to see the PO stats shown at the end of the election
So that I can view who won and who lost

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): Results in audit and displayed should show all stats needed.

Definition of Done (what is required by the team before sending out for review): Audit is created and results are displayed.

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Small

PBI Author(s): Nabeel

PB #16::
As a Tester
I want to be able to see the testing done
So that I can ensure the coding has been done properly

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): code is done and test files are created

Definition of Done (what is required by the team before sending out for review): All the tests run correctly and pass

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Nabeel

PB #17::
As a Tester
I want to be able to see all the documentation for the system
So that I can better understand how the system works

Acceptance Criteria: (conditions that have to be fulfilled to ensure the story is complete): code is completed and documentation is created

Definition of Done (what is required by the team before sending out for review): all the documentation is verified and completed

Effort: Small, Medium, Large, Extra Large (estimate of effort and time) OR number of hours needed: Medium

PBI Author(s): Nabeel