

PBI 1 - PO voting type election
As an Election Official, I want to be able to run a PO voting type election So that one winner could chosen based on who received the majority of votes received
Acceptance Criteria: The candidate who received the most votes is chosen as the winner of the election.
Definition of Done: The voting system is tested and the acceptance criteria is met.
Effort: Large
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 2 - PO voting results displayed on screen
As an Election Official, I want to be able to see the PO stats of the election after the algorithm has finished running So that I can see who run the election
Acceptance Criteria: <ul style="list-style-type: none"> - The PO stats are displayed when the election algorithm is done running. - The stats have to have the winner, losers, and percentage of votes for each candidate.
Definition of Done: The voting system is tested and the acceptance criteria is met.
Effort: Small
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 3 - Processing ballots for PO
As an Election Official, I want the program to be able to process the ballots for a PO election. So that I do not have to process them manually.
Acceptance Criteria: <ul style="list-style-type: none"> - The CSV file header and body is correctly processed by voting system - Handle ballots without errors.
Definition of Done: The voting system is tested, the process is integrated into the voting system, and the acceptance criteria is met.
Effort: Medium
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 4- Reading in the Input file for PO
As an Election Official, I want the program to read in the data correctly from the ballot file for an PO election. So that the rest of the algorithm can run correctly.
Acceptance Criteria: <ul style="list-style-type: none"> - Able to read the first line of the CSV file to determine the voting type. - Able to determine the list of candidates based on the second line - Able to determine the number of candidates based on third line - Able to determine the ballot's choice of vote based on the structure of the lines for lines 4 and later
Definition of Done: The voting system is tested, the process is integrated into the voting system, and the acceptance criteria is met.
Effort: Small
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 5 - OPL algorithm runs correctly
As an Election Official, I want to be able to calculate the results of an OPL election So that I know the winners of an OPL election
Acceptance Criteria: <ul style="list-style-type: none"> - The winners of an OPL election are successfully calculated for all cases including edge cases
Definition of Done: The voting system is tested, OPL_System_2 and OPL_System_3 test cases are passed, and the acceptance criteria is met.
Effort: Large
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 6 - IRV algorithm audit file is produced correctly
As an Election Official, I want to be able to view an audit file that shows the result of the IRV algorithm So that I can verify that the IRV election was run correctly
Acceptance Criteria: <ul style="list-style-type: none"> - The audit file accurately reflects the IRV election algorithm's calculations
Definition of Done: The voting system is tested, IRV_System_3 test case is passed, and the acceptance criteria is met.
Effort: Medium
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 7 - Multiple election files are able to be processed
As an Election Official, I want to be able to input multiple csv files into the system So that I can calculate the election that covers multiple balloting locations
Acceptance Criteria: <ul style="list-style-type: none"> - Multiple csv files are able to be processed by the system
Definition of Done: The voting system is tested, IRV_System_3 and IRV_System 1 test cases are passed, and the acceptance criteria is met.
Effort: Large
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 8 - IRV Remove Invalid Ballots
As an Election Official, I want to be able to remove all invalid ballots So that I can verify that the IRV election only accounts for valid ballots.
Acceptance Criteria: <ul style="list-style-type: none"> - The IRV removes invalid ballots - The algorithm ensures that at least half of the candidates are ranked and rounded up from .5 or above to the next highest integer values.
Definition of Done: The voting system is tested, IRV_System_3 test case is passed, and the acceptance criteria is met.
Effort: Medium
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 9 - IRV algorithm correctly identifies when a candidate has reached droop
As an Election Official, I want to be able to calculate the results of an IRV election So that I can know who won the IRV election
Acceptance Criteria: <ul style="list-style-type: none"> - The IRV algorithm runs correctly for all cases including edge cases
Definition of Done: The voting system is tested, IRV_System_2 and IRV_System_4 test cases are passed, and the acceptance criteria is met.
Effort: Large
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 10- GUI is displayed to election official
As an Election Official, I want to be able to interact with a Graphical User Interface to upload the single/multiple CSV input files for an election So that I can more easily interact with the voting system
Acceptance Criteria: <ul style="list-style-type: none"> - The GUI allows election official to interact via mouse or arrow key - The GUI allows election official to upload a single or multiple CSV input files - The GUI allows election official to start an election
Definition of Done: The GUI is tested, GUI test cases are passed, and the acceptance criteria is met.
Effort: Large
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken

PBI 11- Table is displayed at the end of an IRV election
<p>As an Election Official,</p> <p>I want to be able to see the number of votes subtracted and added to each candidate each round</p> <p>So that I can see how the election progressed round to round</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> - A table is displayed at the end of the IRV election that shows each candidate and how many votes were added and subtracted towards them each round
Definition of Done: The voting system is tested and the acceptance criteria is met.
Effort: Medium
PBI Author (s) Naviin Vejaya Kumar, John Cullom, Anna Frenz, Kyle Bekken