

## PBI-PO

As election officials. We want a new voting algorithm. So that we can determine a winner based on who received the most ballots and a fair coin toss if there are ties between candidate(s), in an OP style election. Note: We are interested in functionality and not the individual tasks for the PBI. Do not create tasks at this time.
Acceptance Criteria It must be able to successfully run an OP style election.
Definition of Done (what is required by the team before sending out for review) The election results can be accurately decided for election officials.
Effort: Extra Large
PBI Author(s) Roman Woolery

## PBI-PO.CSV

As election officials. We want popularity only election ballots to be brought in via a .csv file with a specific format. So that the PO election can be run.
Acceptance Criteria: The CSV file must be received in the following format: 1st Line: PO for Popularity Only 2nd Line: Number of Candidates 3rd Line: The candidates and their party in [ ]. Name/party separated by commas. 4th Line: Number of Ballots
Definition of Done (what is required by the team before sending out for review) All valid Ballots will be stored in a CSV file given the acceptance criteria.
Effort: Medium
PBI Author(s) Roman Woolery

## PBI-MultipleFiles

As an election official I want to bring in multiple files instead of a single file So that I can bring in different files from different balloting locations
--

Acceptance Criteria: Multiple files can be read for all election types
Definition of Done: Unit testing passes all cases for all election types System Testing passes all cases for all election types
Effort: Medium
PBI Author(s) Josh Trimble

#### **PBI-IRVTable**

As an election official I want to see a table displayed to the screen at the end of an election that shows each round of the IRV and the number of votes that the candidate added/subtracted for that round. So that I can see the election results for IRV
Acceptance Criteria: For IRV, an election results table displays to the screen with the following criteria: <ul style="list-style-type: none"> <li>• List candidates names and parties</li> <li>• List votes subtracted and added for each candidate for each round</li> </ul>
Definition of Done: Unit testing passes all cases for IRV System Testing passes all cases for IRV
Effort: Small
PBI Author(s) Josh Trimble

#### **PBI-ShortReport**

As an election official, I want to have a short, accurate report generated at the end of an election So that the results can be shared and verified with the election certification officials
Acceptance Criteria: The generated report must be in an organized/readable format. The information in the report must include: <ul style="list-style-type: none"> <li>• Date</li> <li>• Type of election</li> <li>• All candidates involved</li> <li>• Number of seats</li> <li>• Winner of election</li> </ul>

The generated report must be printable.
Definition of Done: The generated report must be accurate. The generated report must contain all relevant information.
Effort: Medium
PBI Author(s): Caden Potapenko

### **PBI-DisplayPOStats**

As an election official I want the PO election stats displayed at the end of the election So that officials can see who won and who lost, and the distribution of votes.
Acceptance Criteria: The PO election stats must be displayed to the screen at the end of the election. The PO election stats must include the percentage of votes received for each candidate. The PO election stats must be displayed in an organized/readable format.
Definition of Done: The PO election stats must be accurate.
Effort: Small
PBI Author(s): Caden Potapenko

### **PBI-GUI**

As an election official. I want the voting system to be on GUI instead of a text prompt. So that I can type a filename or look for file(s) on disk using mouse or arrow keys.
Acceptance Criteria: A window should appear to interact with the software program.
Definition of Done: GUI testing passes to ensure that the screens and controls like menus, buttons, icons, etc, are working properly as per specifications.
Effort: Medium
PBI Author(s): Myat Mo

### **PBI-IRVHalfFilledBallot**

As an election official. I want the IRV ballots to have at least half of the candidates ranked, rounded up from .5 or above to the next higher integer value, for the ballot to be valid. So that the ballots will not be invalidated at the point of collection but will need to be done when the election is run with the software system.
Acceptance Criteria: Invalidated ballots must be removed from the election. A file must be created that stores the invalidated ballots for audit purposes. The name of the file should be invalidated_dateofelection.xxx
Definition of Done: Unit testing and system testing pass for the requirement.
Effort: Medium
PBI Author(s): Myat Mo

### **PBI-IRVEliminatedBallotAudit**

As an election official I want to only count valid ballots based on new rules around IRV completed rankings So that the election runs fairly and accurately.
Acceptance Criteria: The IRV election must take all ballots initially. The IRV election must remove invalid ballots
Definition of Done: (what is required by the team before sending out for review) <ul style="list-style-type: none"><li>• The IRV election must remove invalid ballots after the election program has started and all ballots have been received in proper formatting<ul style="list-style-type: none"><li>◦ Invalid IRV ballots need to have at least half of the candidates ranked, rounded up from .5 or above to the next higher integer value, for the ballot to be valid.</li></ul></li><li>• Unit testing passes all cases for IRV</li><li>• System Testing passes all cases for IRV</li></ul>
Effort: Medium
PBI Author(s): Caden Potapenko