

## PBI-PO.CSV

As election officials. We want to be able to send popularity-only ballots to be processed in our voting software. So that the PO election can be run.
Acceptance Criteria: Ballot information must be organized into a single CSV file of the following format: <ul style="list-style-type: none"><li>• First line contains only "PO" for Popularity Only,</li><li>• Second line contains the Number of Candidates,</li><li>• Third line lists the candidates and their party with name and party separated by commas,</li><li>• The fourth line contains the number of ballots.</li><li>• Remaining lines are the ballots</li></ul> Candidate information is stored Ballots are stored and assigned to their respective candidate
Definition of Done: Unit testing passes all cases for all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
Effort: Medium 5-6 hours
PBI Author(s) Roman Woolery

## PBI-PO

As election officials: We want to be able to count PO election ballots So that we can run a PO election
Acceptance Criteria: A winner is determined based on who received the most votes Fair coin toss in case of a tie Election is fair Results are saved and displayed to the screen Percentage of each candidates votes are calculated
Definition of Done: Unit testing passes all cases for all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
Effort: Large

PBI Author(s) Roman Woolery
-----------------------------

### **PBI-IRVTable**

As an election official I want to see a table displayed at the end of an IRV So that I can see the results of an IRV election
---

Acceptance Criteria: For IRV, an election results table displays to the screen with the following criteria: <ul style="list-style-type: none"><li>• Show each round of the IRV transfer votes</li><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 all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
---

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 stored for future access.
--

Definition of Done: Unit testing passes all cases for all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
---

Effort: Medium
----------------

PBI Author(s): Caden Potapenko
--------------------------------

### **PBI-DisplayPOStats**

As an election official I want the PO election results 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 results must be displayed to the screen at the end of the election. The PO election results must include the percentage of votes received for each candidate. The PO election results must be displayed in an organized/readable format.
--

Definition of Done: Unit testing passes all cases for all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
---

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: Unit testing passes all cases for all election types; System Testing passes all cases for all election types; Regression Testing passes; Tests are documented; Code is documented.
---

Effort: Medium
----------------

PBI Author(s): Myat Mo
------------------------

### **PBI-IRVEliminatedBallotAudit**

As an election official I want to only count valid ballots So that the election runs fairly and accurately.
---

Acceptance Criteria:

The IRV election takes all the ballots initially.

The IRV election removes invalid ballots that have less than 0.5 of the completely filled out ranking values for all candidates.

The invalid ballots are recorded in an audit file for each election.

Definition of Done:

Unit testing passes all cases for all election types;

System Testing passes all cases for all election types;

Regression Testing passes;

Tests are documented;

Code is documented.

Effort: Medium

PBI Author(s): Caden Potapenko