

Product Backlog Items

Team #18

Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

As a voting official I want the statistics and percentages about how many votes the candidates received to be calculated for PO So that constituents can know how well their candidate did
Acceptance Criteria: <ul style="list-style-type: none">• The algorithm should calculate the percentage of votes each candidate received accurately (2 decimal places)
Definition of Done: <ul style="list-style-type: none">• Unit testing completed with all tests passed• Documentation for related methods completed• Comments in code properly written• Integration testing completed
Effort: Medium (3 hours)
PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

As a voting official I want to see the winner, losers printed to the screen for PO So that I can see visually who won and who lost
Acceptance Criteria: <ul style="list-style-type: none">• The screen displays the name, party of the winner• Winner is made clear as the winner• Winner is also written to the audit file• Other losing candidates displayed on screen so official can know who lost
Definition of Done: <ul style="list-style-type: none">• Unit testing completed with all tests passed• Documentation for related methods completed

<ul style="list-style-type: none"> • Comments in code properly written • Integration testing completed
Effort: Medium (3 hours)
PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

<p>As a voting official</p> <p>I want to see the percentages of the votes each candidate got in a PO election printed on the screen</p> <p>So that constituents can know how well their candidate did</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • The screen displays the percentages of the number of votes a candidate received from the total number of votes onto the screen • The percentages are accurate representations of the proportion of votes candidates got
<p>Definition of Done:</p> <ul style="list-style-type: none"> • Unit testing completed with all tests passed • Documentation for related methods completed • Comments in code properly written • Integration testing completed
Effort: Medium (3 hours)
PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

<p>As a voting official</p> <p>I want the program to write winners, losers, and statistics about candidates in a PO election to the audit file</p> <p>So the Secretary of State can verify an election's validity</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • The audit file is populated with relevant information when the system is done running
<p>Definition of Done:</p> <ul style="list-style-type: none"> • Unit testing completed with all tests passed

<ul style="list-style-type: none"> • Documentation for related methods completed • Comments in code properly written • Integration testing completed
Effort: Small (1 hour)
PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

<p>As a voting official</p> <p>I want to be able to pass in an election file through a graphical interface</p> <p>So that I can easily see what file I'm using for the election</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • A file can be added to the program through a graphical file manager interface • System prompts user if a filename is invalid as usual • Screen appears when program is started • User should be able to look for file on disk using mouse or arrow keys • User should be able to type in a filename
<p>Definition of Done:</p> <ul style="list-style-type: none"> • Unit testing completed with all tests passed • Documentation for related methods completed • Comments in code properly written • Integration testing completed
Effort: Medium (3 hours)
PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si

<p>As a voting official</p> <p>I want to be able to pass in multiple election files through a graphical interface</p> <p>So that I can easily see what files I'm using for the election</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • Multiple files can be added to be used for an IR/CPL/PO election through a graphical file manager interface • Screen appears when program is started • User should be able to type in a filename • User should be able to look for files on disk using mouse or arrow keys

<ul style="list-style-type: none"> • System prompts user if a filename is invalid as usual
<p>Definition of Done:</p> <ul style="list-style-type: none"> • Unit testing completed with all tests passed • Documentation for related methods completed • Comments in code properly written • Integration testing completed
<p>Effort: Medium (3 hours)</p>
<p>PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si</p>

<p>As a voting official</p> <p>I want to be able to invalidate IRV ballots with less than half of the candidates ranked</p> <p>So that only valid ballots are counted in the election</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • Election files with invalid ballots are now compatible with IRV • Files with flawed ballots produce the same output format as normal IRV files
<p>Definition of Done:</p> <ul style="list-style-type: none"> • Ballots with less than half (less than $.5 \times$ total number of candidates rounded up) declared invalid • Unit testing completed with all tests passed • Documentation for related methods completed • Comments in code properly written
<p>Effort: Small 1 hour</p>
<p>PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si</p>

<p>As a voting official</p> <p>I want to record the invalidated IRV ballots in a file</p> <p>So that there is a record of the invalidated ballots that can be verified by the Secretary of State if needed</p>
<p>Acceptance Criteria:</p> <ul style="list-style-type: none"> • The ballots are recorded in a file with filename format "invalidated_dateofelection.xxx"

- The ballots are not counted in the election

Definition of Done:

- Unit testing completed with all tests passed
- Documentation for related methods completed
- Comments in code properly written
- Integration testing completed

Effort: Small 1 hour

PBI Author(s): Lane Enget, Pyrenees Gavois, Jonathan Haak, Noreen Si