

#### PBI #9 - Audit file is created (PO)

As an election official

I want to be able to view the audit file containing the election winner and other votes after running the election

So that I can have the election results in a readable file

Acceptance Criteria:

- Audit file is created in same directory
- Audit file contains correct vote counts for each candidate
- Audit file is clearly written and easy to read
- Audit file contains the correct winner

Definition of Done:

- Program runs without causing errors.
- Program passes all unit, integration, and system tests.
- All documentation fully completed.
- Performs correctly in line with the acceptance criteria.

Effort: Medium

PBI Author(s): Robert

#### PBI #10 - Select file(s) via GUI

As an election official

I want to be able to be able to select files that I want to be processed via a GUI.

So that I can easily bring in necessary files.

Acceptance Criteria:

- GUI is accessible and easy to use.
- The correct file(s) are read in as per the GUI request
- The GUI allows the user to select files until they click "Done"

Definition of Done:

- Program runs without causing errors.
- Program passes all unit, integration, and system tests.
- All documentation fully completed.
- Performs correctly in line with the acceptance criteria.

Effort: Large

PBI Author(s): Ethan

#### PBI #11 - Invalidated Ballots File Created (IR)

As an election official

I want to be able to be able to see which ballots were invalidated in an IR election

So that I can fully audit the election.

Acceptance Criteria:

- Invalidated Ballots file created in the same directory.
- The file is named invalidated\_dateofelection.xxx

Definition of Done:

- Program runs without causing errors.
- Program passes all unit, integration, and system tests.
- All documentation fully completed.
- Performs correctly in line with the acceptance criteria.

Effort: Large
PBI Author(s): Alex
<b>PBI #12 - Enter date of election when program is run</b>
As an election official
I want to be able to record the date of the election when I run the program
So that the file name can contain the date of the election
Acceptance Criteria: <ul style="list-style-type: none"> <li>- Date GUI opens after the file-selection GUI is closed</li> <li>- Prompted for the date of the election when the program is run</li> <li>- Correct date is recorded in MM/DD/YYYY format and output files contain such information</li> <li>- GUI closes once the user clicks "Done"</li> </ul>
Definition of Done: <ul style="list-style-type: none"> <li>- Program runs without causing errors.</li> <li>- Program passes all unit, integration, and system tests.</li> <li>- All documentation fully completed.</li> <li>- Performs correctly in line with the acceptance criteria.</li> </ul>
Effort: Small
PBI Author(s): Robert, Gideon
<b>PBI #13 - IRV ballots are invalidated during vote counting</b>
As an election official
I want all ballots that does not have at least half of the candidates ranked (rounded up from $\geq 0.5$ ) to be invalidated and removed from the ballot counting process
Acceptance Criteria: <ul style="list-style-type: none"> <li>- Only ballots that have more than or equal to half of the candidates ranked are validated towards counting votes in IRV election</li> <li>- Ballots that are invalid are not counted towards the vote count of any candidate</li> </ul>
Definition of Done: <ul style="list-style-type: none"> <li>- Program runs without causing errors.</li> <li>- Program passes all unit, integration, and system tests.</li> <li>- All documentation fully completed.</li> <li>- Performs correctly in line with the acceptance criteria.</li> </ul>
Effort: Medium
PBI Author(s): Robert