

1.

**User Story:**

As an election official

*I want* to be able to name the invalidated Ballots file to whatever I want and store it wherever I want in a graphical user interface

*So that* I know what it is called and where it is stored.

**Acceptance Criteria/Definition of Done:**

- The invalidated Ballots file is saved with the name that the user declared in the interface
- That file is saved in the location on disk that the user declared in the interface
- Passes all unit tests for above criteria

**Effort:**

Medium

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2.

**User Story:**

As an election official

*I want* to be able to input the number of seats for the Election in a graphical user interface

*So that* I am able to interact with the program in a way that is familiar and learn how to use it in under 15 minutes

**Acceptance Criteria/Definition of Done:**

- The number of seats indicated in the interface is the number of seats used in the Election algorithms
- The number of seats should be a positive integer
- Passes all unit tests for above criteria

**Effort:**

Medium

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3.

**User Story:**

As an election official

*I want* to be able to input the Election type in a graphical user interface

*So that* I am able to interact with the program in a way that is familiar and learn how to use it in under 15 minutes

**Acceptance Criteria/Definition of Done:**

- The Election type indicated is either "STV" or "Plurality"

- The type indicated is the voting algorithm that is run for the Election
- Passes all unit tests for above criteria

**Effort:**

Medium

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4.

**User Story:**

*As an* election official

*I want* to be able to toggle the shuffle option in test mode in a graphical user interface

*So that* I am able to interact with the program in a way that is familiar and learn how to use it in under 15 minutes

**Acceptance Criteria/Definition of Done:**

- The Election type indicated is “STV”
- The voting application is being run in test mode
- The shuffle option indicated is either “True” or “False”
- If the shuffle option indicated is “True”, then the Ballots for the STV Election are shuffled before the voting algorithm is run
- If the shuffle option indicated is “False”, then the Ballots for the STV Election are not shuffled before the voting algorithm is run
- Passes all unit tests for above criteria

**Effort:**

Medium

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5.

**User Story:**

*As an* election official

*I want* to be able to confirm the Election parameters in a graphical user interface

*So that* I am able to interact with the program in a way that is familiar and learn how to use it in under 15 minutes

**Acceptance Criteria/Definition of Done:**

- The Election indicated is “STV”
- The confirmation indicated is either “True” or “False”
- If the confirmation indicated is “False,” the user will be directed to re-enter all inputs
- If the confirmation indicated is “True,” the Election runs the voting algorithm.
- Passes all unit tests for above criteria

**Effort:**

Medium

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6.

**User Story:**

*As an* election official

*I want* a short report generated to give to election certification officials that contains the date, Election type, the Candidates, the number of seats, and the winners of the Election

*So that* the Election can be verified without the audit file and the Election has record of when it occurred and its results

**Acceptance Criteria/Definition of Done:**

- The program generates report with only the above listed information
- The report is saved to disk in the same directory as the voting application executable
- Passes all unit tests for above criteria

**Effort:**

Small

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7.

**User Story:**

*As an* election official

*I want* to be able to print the short election certification report right from the graphical user interface

*So that* I can have a hard copy of the report immediately and walk it over to the Election Certification Official

**Acceptance Criteria/Definition of Done:**

- Report is saved to disk before the user is given the option to print it
- The user is given the option to print the report in the GUI
- When the user clicks print, a print preview window is opened
- The user has the ability to select a destination printer in the print preview window
- When the user selects print inside the print preview window, the report is printed by the selected printer
- When the user selects print inside the print preview window, the print preview window closes
- The print option remains there for the user until they close the interface
- Passes all unit tests for above criteria

**Effort:**

Large

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8.

**User Story:**

*As an* election official

*I want* to be able to add Ballots manually to the program to be counted in the Election in a graphical user interface

*So that* I can test out a small version of the system we would like to eventually deploy on voting machines

**Acceptance Criteria/Definition of Done:**

- The user is able to manually enter the ballot through a graphical user interface
- The system is able to check the validity of the ballot
- The ballot added can be processed in the same way that other ballots which are read in from the CSV files.
- Passes all unit tests for above criteria

**Effort:**

Large