

Sprint Backlog

COMMITTED BACKLOG ITEMS

#1 Algorithms Fully Implemented

As a User
I want all algorithms that determine the results of an election (IRV, OPLV) work as described in the SRS document and SDD,
so that I can utilize the software confidently.

Acceptance Criteria:

- Tests are Written for all Algorithm paths
- Algorithm produces results for all algorithm expected path results including ties

Definition of Done:

- All IO Exception Handling is implemented
- Passes regression testing
- Meets all acceptance criteria
- In-line documentation and javadocs have been updated.

Size: Medium

Status: To-do

#2 Remove and Store Invalidated Ballots

As a user of the voting system,
I want IRV to only use valid ballots (ballots with at least half of the candidates ranked) and to store invalidated ballots
in a separate audit file
so that the election is fair and only validated ballots are used

Acceptance Criteria:

- Audit file of invalidated ballot is produced
- Calculate election with validated ballots
- Invalidated ballots are only in the IRV election

Definition of Done:

- Passes Regression Testing
- Meeting all Acceptance Criteria
- In-line documentation and javadocs have been updated.

Size: Large

Status: To-do

#3 Election Table

As an official (of an IRV Election)
I would like to see a table showing each round of the IRV
so that I can see the number of votes that the candidates added/subtracted for each round

Acceptance Criteria:

- Calculate votes added for each candidate in each round
- Calculate votes subtracted for each candidate in each round
- Create GUI/Display of table

Definition of Done:

- Able to show feature in a demo
- Pass all tests (regression, acceptance, unit, etc)
- Approved by team
- Meets all Acceptance Criteria
- In-line documentation and javadocs have been updated.

Size: Medium

Status: To-do

#4 Command Line Argument Filename

As a user
I want to provide the filename as an argument in the commandline
so that I do not have to be prompted and I to expedite the process of running the election

Acceptance Criteria:

- Take in the command line arguments
- Save the argument as the file name
- No longer prompt the user, either in the command line or the GUI, for the file name

Definition of Done:

- Feature passes acceptance criteria
- Feature can be showed in a demo
- Approved by the team
- Passes all required tests
- In-line documentation and javadocs have been updated.

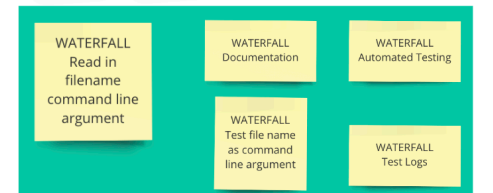
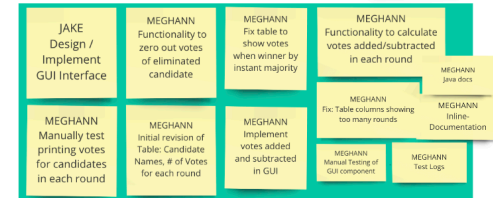
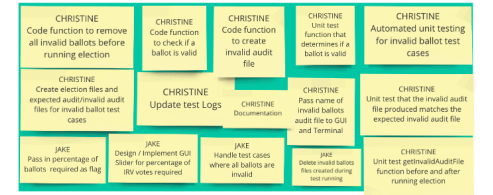
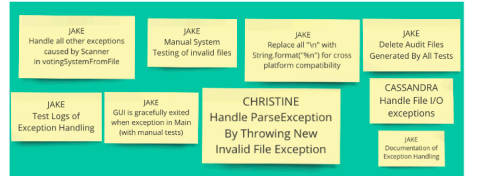
Size: Small

Status: To-do

NOT STARTED

IN PROGRESS

COMPLETED



#5 Filename Prompt
As a user
I want to only be prompted for the filename on the command line
so I can dictate the election file

Acceptance Criteria:
- QPLCA API is properly calculated
- Audit file can recreate the election election is fair
- Ensure it is thoroughly Tested - Forms of Regression Testing
- Documentation

Definition of Done:
- Functionality is able to be demo-ed
- All tests have been written and passed
- A log of potential conflicts with components in the system
- In-line documentation and javadocs have been updated.

Size: Small
Status: Done

#6 GUI Filename prompt
As a electoral official
I want a GUI to use to prompt me for the file name instead of a text prompt
so I do not have to use a terminal

Acceptance Criteria:
- Issues is thoroughly tested
- Allow user to look for file on their local device
- GUI appears when program is run

Definition of Done:
- Passes all regression test
- Approved by team
- In-line documentation and javadocs have been updated.
- Meets all Acceptance Criteria

Size: Large
Status: Done

#7 Handle Upwards of 100,000 Ballots
As a user
I want the program to be able to handle upwards of 100,000 ballots
so that I can run a large election or test the efficiency of the program

Acceptance Criteria:
- The program can run with an election file that contains 100,000 ballots
- The program will output the correct results
- The program will meet the efficiency requirements while running this large number of ballots
- Program will still operate and not break because of this

Definition of Done:
- All tests are passed
- Feature can be showed in a demo
- Acceptance criteria are all met
- Accepted by the team
- In-line documentation and javadocs have been updated.

Size: Medium
Status: Done

#8 Print Summary Report
As an election official
I want the audit report and a short report containing date, type of election, candidates, the number of seats, and the winner(s) of the election
so that I can have a printable version to give to the election certification officials

Acceptance Criteria:
- Printable report
- Only contains date, type of election, candidates, the number of seats, and winner(s) of election
- Program produces both audit report and short report

Definition of Done:
- Passes all regression test
- Approved by team
- Able to show feature in demo
- Passes Acceptance Criteria

Size: Medium
Status: To-do

