Committed BackLog Items (User Stories)

OPL & IRV works correctly

As an election official, I want both IRV and OPL algorithm works correctly in the voting system so that I could proceed with the election efficiently by using the voting system

Acceptance Criteria: The test cases could cover all edge cases. The output and behaviors of IRV & OPL have been thoroughly tested under these test cases and proved to be right.

Effort: Medium

Not Started	In Progress	Done
Create test case for OPL		Code OPL
Create test case for IRV		Code IRV
Do unit testing		

Committed BackLog Items (User Stories)

Check and remove invalid ballots from row data

As an election official, I need the system to auto-detect invalid ballots,which have at least half of the candidates ranked, from the input data. A file named “invalidated_dataofelection.xxx” needed to be created to store the invalid ballots. So that the election process could works correctly align with our election rules

Acceptance Criteria: The system need to auto-detect all invalid ballot based on the requirement and then remove before election process. All removed invalid ballots need to be saved into file “invalidated_dataofelection.xxx”

Effort: Medium

Not Started

- Code the detecting algorithm
- Design the format of output file
- Design the test case
- Do unit testing

In Progress

Done

Committed BackLog Items (User Stories)

Display result table

As an election official, I want to see a result table(contains number of votes each candidate added/subtracted for each round) on screen for IRV after the voting procedure. So that I can see the information of each round of the IR voting.

Acceptance Criteria: The table format should follow the form: en.wikipedia.org/wiki/Instant-runoff-voting. All information displayed in the table need to be correct

Effort: Large

Not Started

- Design the format of output information
- Create test case
- Do unit testing

In Progress

- Understand sample logic
- Design the User Interface
- Implement displaying information code

Done

Committed BackLog Items (User Stories)

Not Started

In Progress

Done

Auto detect info and format from CSV

As an election official, I want the system could auto-detected the ballot type and format(number of candidates ,number of seats, and election type etc.) from the CSV file. And the only thing I need to input is the file name. So that the system could be much more user friendly and conveniently

Acceptance Criteria: The system could successfully open the file based on the file name input by user. The system could properly and correctly detect the ballot info and format from the file.

Effort: Small

Implement auto-detection code

Design the User Interface

Create test case

Do unit testing

Committed BackLog Items (User Stories)

Not Started

In Progress

Done

Provide two ways to specify filename

As an election official, I hope the system provides me two ways to specify the input file: input through command line argument and input through a prompt request. So that I could choose the most convenient way to input file name

Acceptance Criteria: The program could accept command line as input and get file name from it. If the file name is already specified through command line, the system won't prompt a request for filename. The system would prompt a request for filename, if command line arguments don't include the filename. The system could load ballots properly and correctly using that filename

Effort: Small

Create test case

Do unit testing

Enable GUI prompt of filename request, when not receive command line argument

Modify program Structure to receive command line argument

Disable GUI prompt of filename request, when receive command line argument

Committed BackLog Items (User Stories)

Not Started

In Progress

Done

Provide GUI for filename request

As an election official, When prompt filename request, I would prefer to type into a GUI instead of a command line. So that the system would look more fancy and user friendly

Acceptance Criteria: The system would prompt a request for filename through a graphic user interface(GUI), if command line arguments don't include the filename. The user could select file or type filename through that GUI to specify the ballots file. The system could load ballots properly and correctly using that filename

Effort: Small

Implement the Graphic User Interface

Design the Graphic User Interface

Create test case

Do unit testing

Do system testing