Product Backlog

As the product owner,
I want both plurality and STV to
work properly,
So that election results can be
calculated.

Acceptance Criteria:
- Plurality works properly
- STV works properly
- Thorough testing is required

Effort: Small

now

As the developer of the voting
system,
I want to be able to determine
shuffle option,
So that I can use for testing and
make sure the election is fair.

Acceptance Criteria:
- Check if command line
  contains a third argument for
  shuffle option
- The default shuffle option is
  turned on
- Be able to let the developers
  to pass in on/off after the file
  name to indicate the shuffle
  option
- Thorough testing is required

Effort: Small

now

As the user of the voting system,
I want to input a CSV file,
So that nothing else is prompted.

Acceptance Criteria:
- Be able to prompt user to
  input file name
- Be able to parse the file
- # ballots is less than 10000
- Each line represents one type
  of info
- Thorough testing is required

Effort: Small

now

As the user of the voting system,
I want to run the voting system by
parsing in a command line with
the file name,
So that the system can be run with
just a command line argument.

Acceptance Criteria:
- Be able to handle command
  line argument
- Be able to parse the file
- # ballots is less than 10000
- Each line represents one type
  of info
- Thorough testing is required

Effort: Small

next

As the election official,
I want to have a short report in
addition to an audit report
So that the short report can be
printed and given to the election
certification officials.

Acceptance Criteria:
- Include date, type of election,
  the candidates, # seats and
  the winner of the election
- No losers list is included in the
  short report
- Thorough testing is required

Effort: Small

As the election official,
I want to make sure to only count
for ballots that have at least half of
the candidates ranked,
So that ballots that do not meet
this standard are determined to
be invalidated when the election is
run.

Acceptance Criteria:
- Be able to catch invalidated
  ballots during the process of
  running the voting system
- Be able to calculate the ratio
  between the rankings and the
  number of candidate for each
  ballot during each vote
  distribution
- Thorough testing is required

Effort: Medium

As the election official,
I want to have the voting system
displayed in a graphical user
interface,
So that I do not need to use
terminal to run the election.

Acceptance Criteria:
- Have everything shown on the
  interface
- Show the result in the
  graphical interface
- Thorough testing is required

Effort: Medium

As the election official,
I want to have the ballots input on
screen directly,
So that I can manually add new
ballots.

Acceptance Criteria:
- Allow ballots to be input
  instead of using csv
- Store the input ballot and
  pass to voting system
- Thorough testing is required

Effort: Small

Not for now

As the election official,
I want to be able to see the
progress of the election,
So that information is updated for
each pass.

Acceptance Criteria:
- Print out a line with
  candidates and their updated
  # votes each time
- Print out a line with the
  updated elected candidates
  and their # votes each time
- Print out a line with the
  updated non-elected
  candidates and their # votes
  each time
- Print out the updated list of
  invalidated ballots
- Thorough testing is required

Effort: Medium