PBI: Ensure that at least half the candidates are ranked on a ballot for STV
Rank: 1

As an election official **I want** to ensure that an STV ballot has at least half the candidates ranked, and remove any ballots without at least half the candidates ranked **So that** only valid ballots are counted towards an STV election and the burden of validation is removed from poll workers.
Acceptance Criteria: - System must check if each ballot has at least half the candidates ranked. - System must remove any STV ballots that don't have at least half the candidates ranked. - Removed ballots should not be used in voter tabulations
Definition of Done: - Documentation (JavaDocs, In-line comments). - Unit and integration tests are written and pass - Code refactoring
Effort: - Medium - 3-4 hours
PBI Author(s): Amelia Lunning

PBI: Small Report
Rank: 2

As an election official **I want** to produce a small report for each election **So that** they can get and save a snapshot of the election statistics

Acceptance Criteria:
- Report file should be successfully created with a .txt extension
- Report file should be named automatically by the system with election type and timestamp
- Report file should display:
  - Election type
  - Number of ballots
  - Number of seats to be filled
  - List of candidates
  - Number of votes received per candidate
  - Percentage of votes received per candidate
  - Winners of the election

Definition of Done:
- Documentation (JavaDocs, In-line comments).
- Unit and integration tests are written and pass
- All exceptions are handled gracefully

Effort:
- Small
- 1-2 hours

PBI Author(s):
Amelia Lunning

PBI: Display results of the MV

Rank: 3

As an election official
I want the system to display relevant statistical information for a municipal voting election
So that it will be easy to know who won and lost an election and the percentage of votes they received.

Acceptance Criteria:
- Election type is displayed on the screen
- Number of seats is displayed on the screen
- Number of candidates is displayed on the screen
- Number of ballots is displayed on the screen
- Winning candidates' names are listed with their vote percentage
- Losing candidates' names are listed with their vote percentage

Definition of Done:
- Refactoring
- Documentation (JavaDocs, In-line comments)
- Unit and integration tests are written and pass
- All exceptions are handled gracefully

Effort:
- Small
- 1-2 hours

PBI Author(s):
Zach Larsen

PBI: Audit file for MV

Rank: 4

As an election official
I want to produce an election audit file for MV voting

So that the details of an MV election can be documented and tracked

Acceptance Criteria:
- The user is prompted to name the audit file.
- Audit file should be successfully created with a .txt extension
- Audit file should display:
  - Election type
  - Number of ballots
  - Number of seats to be filled
  - Number of candidates
  - Winners and voter percentage
  - Losers and vote percentage
  - Ballot assignments to candidates and their order.

Definition of Done: - Documentation (JavaDocs, In-line comments). - Unit and integration tests are written and pass - All exceptions are handled gracefully
Effort: - Small - 1-2 hours
PBI Author(s): Amelia Lunning

PBI: Bring in the MV as a .csv file
Rank: 5

As an election official **I want** to be able to accept a csv file formatted for an MV election **So that** I can process ballots and determine a winner for this type of election when the Secretary of State chooses it.
Acceptance Criteria: - System must accept only a .csv file - System must correctly parse and store ballots from the file - System must correctly parse header info
Definition of Done: - Refactoring - Documentation (JavaDocs, In-line comments) - Unit and integration tests are written and pass - All exceptions are handled gracefully

Effort:
- Small
- Less than 1 hour

PBI Author(s):
Zach Larsen