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PBI Memory Leak from Task 3

(Product Owner/Election Official will most likely not know what a memory leak is?)

As a <u>developer</u> I want <u>a system that runs repeatedly with no memory leaks</u> So that <u>the elections can run without interruption</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): There are no memory leaks from any of the elections.
Definition of Done (what is required by the team before sending out for review): There are no memory leaks and it is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Large
PBI Author(s): Amy Nguyen, Kaley Schiffler, Hoin Jang, William Henning

System takes multiple files

As an <u>election official</u> I want <u>a single election to run multiple files</u> So that <u>we can process ballot files from multiple locations</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): The system can take in a process multiple files at a time for each election type (IRV, OPL, PO).
Definition of Done (what is required by the team before sending out for review): The system processing multiple files is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Large
PBI Author(s): Amy Nguyen, Kaley Schiffler, Hoin Jang, William Henning

IRV Ballots are checked for being valid

As an <u>election official</u> I want <u>each IRV Ballot to be checked for validity according to the requirements.</u> So that <u>valid and invalid IRVs impact the election accordingly.</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): Invalid IRV ballots are recorded but do not count towards the election. Valid IRV ballots count towards the election. Invalid ballots will be recorded on a report file.
Definition of Done (what is required by the team before sending out for review): Checking for valid IRV Ballots is tested, documented, and integrated into the current system. Report file of invalid ballots is generated.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Medium
PBI Author(s): Amy Nguyen, Kaley Schiffler, Hoin Jang, William Henning

PO Ballot Input .csv

As an <u>election official</u> I want <u>the system to take ballots in via .csv file</u> So that <u>the system can count the ballots for us</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): The headers can be processed, and the ballot input needs to be in .csv format.
Definition of Done (what is required by the team before sending out for review): Ballot input is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Small
PBI Author(s): Amy Nguyen, Kaley Schiffler, Hoin Jang, William Henning

PO Election

As an <u>election official</u> I want a <u>working Popularity Only (PO) election</u> So that <u>the most popular candidate wins the election</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): The most popular candidate wins the election. All ties are determined via a fair coin toss.
Definition of Done (what is required by the team before sending out for review): The PO election process is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Large
PBI Author(s): Amy Nguyen, Kaley Schiffler, Hoin Jang, William Henning

PO Stats Displayed to the Screen

As an <u>election official</u> I want <u>the PO stats to be displayed on the screen at the end of the election</u> So that <u>we know the winner and validate the election</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): The correct stats are displayed to the screen with the percentage of votes each candidate received. The stats being displayed are easily readable.
Definition of Done (what is required by the team before sending out for review): The PO stats being displayed to the screen is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Medium
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GUI window to select ballot files from a directory (Less Important)

As an <u>election official</u> I want a GUI window to be able to select ballot files from a directory So that <u>we have an easy interface to select ballot files</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): The System creates a GUI window that allows the user to select ballot files from a directory.
Definition of Done (what is required by the team before sending out for review): The GUI window is tested, documented, and integrated into the current system.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Medium
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IRV Table

As an <u>election official</u> I want to see a table at the end of each IRV election So that <u>the data for all of the votes is recorded</u>
Acceptance Criteria (conditions that have to be fulfilled to ensure the story is complete): Allocation of votes must be shown for each round for each candidate/party. The number of discarded votes from each round is recorded. Table shows the total votes.
Definition of Done (what is required by the team before sending out for review): IRV Table is generated and shown on the screen. Information on the table/screen is correct, reflecting the results of the IRV election.
Effort (Small(1-2), Medium(3-4), Large(5-6), Extra Large(6+) (estimate of effort and time) OR number of hours needed): Medium
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