

Name:	PO Algorithm
Description:	As an Election Official, I need to run a Popularity Only (PO) voting algorithm, because the government has determined to use a popular-based election.
Acceptance Criteria:	<ul style="list-style-type: none"> • The candidate with the most number of ballots wins the election. • If there is a tie for the most number of votes, a fair coin flip should determine the winner. • A media file is created to the current directory that has PO stats and information about the election so that the winner can be announced by the media. • An audit file of the election is created to the current directory so the election can be validated.
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Large
PBI Author(s):	Michael Markiewicz

Name:	PO Algorithm CSV Input
Description:	As an election official, I want the system to be able to take in the PO ballots as a CSV file, so that the program can quickly determine the results of the election.
Acceptance Criteria:	<ul style="list-style-type: none"> PO election ballots are brought in via a .csv file that is formatted the same way as the example in the writeup. <ul style="list-style-type: none"> 1st line: "PO" for Popularity Only 2nd Line: Number of Candidates 3rd Line: The candidates and their party in []. Name and party are separated by commas. 4th Line: Number of Ballots 5th Line on: A single ballot vote for a single candidate candidate
Definition of Done:	Medium
Effort:	<ul style="list-style-type: none"> Passes all regression tests Passes testing per acceptance criteria items Able to show feature in demo
PBI Author(s):	Michael Markiewicz

Name:	PO Algorithm Display to Screen
Description:	As an Election Official, I want the election results to be printed to the screen when I run the system for a PO election, because I need to know who won and what percentage of votes each candidate won.
Acceptance Criteria:	<ul style="list-style-type: none"> • PO stats are displayed to the screen at the end of the election. These should include <ul style="list-style-type: none"> ◦ Who won and who lost ◦ Percentage of votes each candidate received
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Small
PBI Author(s):	Michael Markiewicz

Name:	Input multiple files
Description:	As an Election Official, I want to be able to account for ballots from different polling locations, So that each ballot from each polling location can be counted towards the election
Acceptance Criteria:	<ul style="list-style-type: none"> • Multiple CSV files should be able to be inserted into the ballot file <ul style="list-style-type: none"> ○ Each CSV file can be inserted in any order ○ Each CSV file is processed
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show in feature demo
Effort:	Medium
PBI Author(s):	John Foley

Name:	IRV candidate rankings filled in ballot
Description:	As an election official, I want to have ballots be invalidated because the state election officials have mandated that ballots with less than half of the candidates ranked must be removed from the election.
Acceptance Criteria:	<ul style="list-style-type: none"> • When determining the percentage of candidates voted for on a ballot, it is rounded up to the next highest integer from 0.5. • Ballots that do not have at least half of the candidates ranked are not considered in an election.
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Small
PBI Author(s):	Justin Lam

Name:	Invalidated ballots file
Description:	As an election official, I want to be able to see the ballots that have been invalidated so I can ensure a fair election.
Acceptance Criteria:	<ul style="list-style-type: none"> • A file named invalidated_dateofelection.xxx that contains a listing of the invalidated ballots is created. • Only invalidated ballots are contained in the file. • The ballots are separate and readable.
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Small
PBI Author(s):	Justin Lam

Name:	Table in IRV
Description:	As an election official, I want to see a table after an election finishes of the IRV at each round and the number of votes that the candidate added/subtracted for that round so that I can view the election statistics/changes that occurred at each round and ensure the election results are consistent.
Acceptance Criteria:	<ul style="list-style-type: none"> • Table is displayed on the screen at the end of the IRV election. • Table has information showing each round of the IRV and how the votes changed in between each round. • Table columns are Candidates (Candidate and Party) and Rounds (Round 1, Round 2, etc.) with each round containing a Votes column and a change column (+/-).
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Small
PBI Author(s):	Noah Park

Name:	New Short Report
Description:	As an election official, I want a short report to be printed at the end of the election so I can see basic information after an election is run.
Acceptance Criteria:	A short report containing the date, type of election, IR or OPL, the candidates, the number of seats, and the winners(s) of the election
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	medium
PBI Author(s):	Mohammad Essawy

Name:	GUI
Description:	As an election official, I want a Graphical user interface that allows me to select the file and input it into the program so it is easier for me to use the program.
Acceptance Criteria:	<ul style="list-style-type: none"> • A window appears when the program is started. • The user can type file name inside the window or browse the disk for a file. • Once the files are inputted the user can click run and an election will be run.
Definition of Done:	<ul style="list-style-type: none"> • Passes all regression tests • Passes testing per acceptance criteria items • Able to show feature in demo
Effort:	Large
PBI Author(s):	Mohammad Essawy