

PRODUCT BACKLOG								
ID	Rank	As a ...	I want to be able to ...	So that ...	Acceptance and Done criteria	Effort	Status	Notes
1	1	Election Official	run an algorithm to determine the results of a Plurality type election	the election process can be automated for me.	<p>An algorithm to determine the results of a plurality election should run without crashing and should produce the correct results. Tests should demonstrate this behaviour in the following situations:</p> <ul style="list-style-type: none"> • an election with 0 ballots • an election with 100,000 ballots • an election with 1 candidate • an election with 10 candidates • an election with ballots that have no choices (each candidate has 0 votes) • an election with a two-way tie • an election with a four-way tie 	Large	In Progress	This PBI is a part of the PBI to "fix Project 1", which was interpreted as an epic.
2	2	Election Official	run an algorithm to determine the results of a STV with Droop Quota type election	the election process can be automated for me.	<p>An algorithm to determine the results of a Droop election should run without crashing and should produce the correct results. Tests should demonstrate this behaviour in the following situations:</p> <ul style="list-style-type: none"> • an election with 0 ballots • an election with 100,000 ballots • an election with 1 candidate • an election with 10 candidates • an election with ballots that have no choices (each candidate has 0 votes) • an election where not enough candidates reach the Droop quota to fill all the seats 	Large	In Progress	This PBI is a part of the PBI to "fix Project 1", which was interpreted as an epic.
3	3	Election Official	have the ballots I load shuffled	I can run fair elections.	When ballots are loaded from files, they should not be in the same order each time they are loaded, even if the same files are selected.	Small	In Progress	This PBI is a part of the PBI to "fix Project 1", which was interpreted as an epic.
4	4	Election Official	have the program check if any of the ballots added are invalid (less than half of the candidates are ranked) when running a Droop election	if there is an error while inputting the ballots, the program is able to identify the invalid ballots and run the election using only the valid ballots.	After loading the ballots, the ones that are invalid should be discarded. A Droop election should be run using only valid ballots.	Medium	In Progress	This PBI is a part of the PBI to "report invalid ballots", which was interpreted as an epic.
5	5	Election Official	have the program report the invalidated ballots in a Droop election by saving them to disk	I can account for the invalid ballots.	The ballots that were invalid and were not used in an election are written to disk as a file. The user can check the invalidated report file at the end of the election to determine how many ballots have been invalidated and discarded for the election.	Small	In Progress	This PBI is a part of the PBI to "report invalid ballots", which was interpreted as an epic.
6	6	Election Official	select ballots files that I select using a file chooser	I can load the specific ballot files that I select using a graphical user interface.	The user can launch a file chooser. They will be able to navigate through directories in their filesystem and select a directory to load ballot files from. All the ballot files in the directory (but not any subdirectories) should be loaded.	Small	In Progress	
7	7	Election Official	search for ballot files with a GUI	locate the directory / files I want to load using a graphical user interface.	The user has the option to search for files on disk. This is provided through a file chooser.	Small	In Progress	
8	8	Election Official	select ballot files from a directory using a file chooser	I can load many ballot files by only select a single directory using a graphical user interface.	The user can launch a file chooser. They will be able to navigate through directories in their filesystem and select a directory to load ballot files from. All the ballot files in the directory (but not any subdirectories) should be loaded.	Small	In Progress	

9	9	Election Official	have a short report of the results of the election created and saved to disk so that it can be printed	send this report to election certification officials	Upon completion of an election, a short report of the election results should be saved to disk. The report must contain the date, the type of election, the candidates, the number of seats, and the winners of the election. The report should not include the losers of the election.	Medium	In Progress	
10	10	Election Official	name the file with the invalidated ballots and store it in directory of my choosing using the graphical user interface	so that I can control where the file goes on disk.	The user should be able to name the invalidated file and specify a target directory for the file to be stored. This should be done through a graphical user interface.	Small	Not Done	This PBI is a part of the PBI to "report invalid ballots", which was interpreted as an epic.
11	-	Election Official	select an election type with a dropdown menu	I can control which election I will run through a graphical user interface.	The user should be able to select an election from a discrete list of all election types (a dropdown menu).	Small	Done	
12	-	Election Official	enter the number of seats for an election	I can control how many seats are in the election that I am running, using a graphical user interface.	The user should be able to enter the number of seats for an election from a spinner. They should only be able to enter integers, and only numbers greater than zero.	Small	Done	
14	-	Election Official	run an election by pushing a button	I can start the process of running an election using a graphical user interface.	The user should be able to click on a button and run an election. This should start a process where an election runs (if there is enough information to do so).	Small	Done	
15	-	Election Official	open a help window by choosing a menu option	I can get textual instructions on how to use the program to do what I want.	The user should be able to open a help window by choosing a menu option. This window should contain textual instructions that instruct the user on how to use the program.	Small	Not Done	
16	-	Election Official	recieve information from voting machines during an election	run an election in real time with multiple machines.	The program is able to recieve information from voting machines in real time. The user has the ability to stop this election (stop taking information from voting machines) and to start determining the results of that election.	Large	Not Done	This PBI is a part of the PBI to "input ballots directly into the program" and "have voting machines send the information directly to the system in real time", which was interpreted as an epic.
17	-	Election Official	input ballots directly into the system through a graphical user interface.	input ballots directly into the program	The user will be able click a button labelled "Add Ballot". After selecting this option, the user will rank each candidate in the election. After ranking the candidates, the user will be able to click a "Submit Ballot" button.	Medium	Not Done	This PBI is a part of the PBI to "input ballots directly into the program" and "have voting machines send the information directly to the system in real time", which was interpreted as an epic.