

Sprint Backlog 4/27/2022						
PBI ID	User Story	Owner	Tasks	Est Time (hours)	Status	Who's working on it
#1	As an election official, I want to be able to determine a number of winners via IRV so that I don't have to calculate the winners myself	Election Official	Fix file parsing to allow multiple winners ensure that file parsing works properly	0.5	Done	
			Fix calcResults() function to allow multiple winners	0.5	Done	
			Ensure that correct winners can be retrieved by user	0.5	Done	
			Unit testing	2	Started	Ann, Sean
			bonus: split calcResults() into readInput() and calcResults() (low priority)	0.5	Done	
#2	As an election official, I want to determine a number of winners via OPL so that I don't have to calculate the winners myself	Election Official	Ensure that file parsing works properly	0.5	Done	
			Fix calcResults() function to calculate the winners correctly	1.5	Done	
			Ensure that correct winners can be retrieved by user	0.5	Done	
			Unit Testing	3	Started	Ann, Sean
			bonus: split calcResults() into readInput() and calcResults() (low priority)	0.5	Done	
#7	As an election official, I want to be able to bring in multiple files instead of a single file	Election Official	Change input loop so that "filename" always adds the given filename to a list of files, rather than overwriting previous filenames	0.25	Done	
			give the filehandler a list of filenames rather than just one filename	0.25	Done	
			replace FileHandler.setInputFile() with something like FileHandler.addInputFile(), this new method should behave similarly to setInputFile but should add valid files to the list of filenames rather than just overwriting the previous filename	0.25	Done	
			possibly change from creating a FileHandler when the first file is passed in, to creating one when the program starts?	0.25	Done	
			create a getter for FileHandler, filenames.size (probably useful for adding multiple file support to electionOPL.electionIRV)	0.25	Done	

									All unit tests for each of the tasks for this PJ1 pass, along with all previous unit tests.				4/22/2022
									An IRV election can be fed invalid ballots via input file(s) and the election will automatically ignore and mark the invalid ballots in the relevant audit file				
#9	As an election official, I want to be able to automatically filter out the ballots which have less than half the candidates ranked in an IRV election	change the code which reads the ballots in so that it checks each ballot for if it is valid. Invalid ballots will be disregarded/added to audit file	2	Started					Done	0.5	1) All previous regression tests pass 2) Regression tests for new functionality run automatically every build 3) Code written in pairs/ viewed by other members 4) Duplicate code is removed through refactoring 5) Messy code cleaned up through refactoring 6) manual , exploratory testing has been conducted 7) Checkout and build fully reproducible (1-2 commands)		4/25/2022
		update FileHandler to support reading an audit file (add a function)			0.5	Started			Done				4/25/2022
		Unit testing			1				all tests pass and system is able to test runtime of 100000 ballots				4/25/2022
									ElectionPO class exists and extends the Election class				4/27/2022
#4	As an election official, I want to be able to bring in PO election ballots via a .csv file, so that I don't have to input the individual ballots manually	create ElectionPO class	0.25	Done					ElectionPO.readInputs() exists and can read all candidates/votes in from all supplied input files. CandidatePO class exists and has all needed functionality which the Candidate class did not have.	1.5	1)All previous regression tests pass 2) Regression tests for new functionality run automatically every build 3) Code written in pairs/ viewed by other members 4) Duplicate code is removed through refactoring 5) Messy code cleaned up through refactoring 6) manual , exploratory testing has been conducted 7) Checkout and build fully reproducible (1-2 commands)		4/27/2022
		If the default Candidate class is not enough to complete this, then write a CandidatePO class		Done	0.5				all tests pass and system is able to test runtime of 100000 ballots				4/27/2022
		unit testing		Started	2				command can be run to calculate correct PO election results receives correct results of the election existing input command can read a PO decision option all tests pass and system is able to test runtime of 100000 ballots				4/27/2022
#3	As an election official, i want to be able to determine a single winner via PO (the candidate who received the most ballots)	create ElectionPO.calcResults() which behaves similarly to ElectionIRV.calcResults() and ElectionOPL.calcResults()  ensure that correct winners can be retrieved by user  create input command to request PO decision  unit testing  write a fair random coin flip (possibly use the one which was already written)	1.5	Done	0.5	Done			Coin flip in case of tie is fair and randomized				4/27/2022