

Product Backlog	
	<div>As the product owner, I want both plurality and STV to work properly. So that election results can be calculated.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Plurality works properlySTV works properlyThorough testing is required</div> <div>Effort: Small</div>
now	<div>As the developer of the voting system, I want to be able to determine shuffle option. So that I can use for testing and make sure the election is fair.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Check if command line contains a third argument for shuffle optionThe default shuffle option is turned onBe able to let the developers to pass in on/off after the file name to indicate the shuffle optionThorough testing is required</div> <div>Effort: Small</div>
now	<div>As the user of the voting system, I want to input a CSV file. So that nothing else is prompted.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Be able to prompt user to input file nameBe able to parse the file# ballots is less than 10000Each line represents one type of infoThorough testing is required</div> <div>Effort: Small</div>
now	<div>As the user of the voting system, I want to run the voting system by passing in a command line with the file name. So that the system can be run with just a command line argument.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Be able to handle command line argumentBe able to parse the file# ballots is less than 10000Each line represents one type of infoThorough testing is required</div> <div>Effort: Small</div>
next	<div>As the election official, I want to have a short report in addition to an audit report So that the short report can be printed and given to the election certification officials.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Include date, type of election, the candidates, # seats and the winner of the electionNo losers list is included in the short reportThorough testing is required</div> <div>Effort: Small</div>
	<div>As the election official, I want to make sure to only count for ballots that have at least half of the candidates ranked. So that ballots that do not meet this standard are determined to be invalidated when the election is run.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Be able to catch invalidated ballots during the process of running the voting systemBe able to calculate the ratio between the rankings and the number of candidate for each ballot during each vote distributionThorough testing is required</div> <div>Effort: Medium</div>
	<div>As the election official, I want to have the voting system displayed in a graphical user interface. So that I do not need to use terminal to run the election.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Have everything shown on the interfaceShow the result in the graphical interfaceThorough testing is required</div> <div>Effort: Medium</div>
	<div>As the election official, I want to have the ballots input on screen directly. So that I can manually add new ballots.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Allow ballots to be input instead of using csvStore the input ballot and pass to voting systemThorough testing is required</div> <div>Effort: Small</div>
Not for now	<div>As the election official, I want to be able to see the progress of the election. So that information is updated for each pass.</div> <div>Acceptance Criteria:<ul style="list-style-type: none">Print out a line with candidates and their updated # votes each timePrint out a line with the updated elected candidates and their # votes each timePrint out a line with the updated non-elected candidates and their # votes each timePrint out the updated list of invalidated ballotsThorough testing is required</div> <div>Effort: Medium</div>

Not Started	Sprint Backlog
	<div>In Progress</div> <div>Codes to parse the file and find required information properly</div> <div>Unit tests for generating the short report</div> <div>Codes to generate the short report with required information</div>
	<div>Code to identify the exact number of valid votes for a ballot.</div> <div>Design a GUI to input ballots on screen</div> <div>Design how to input ballots using GUI</div>

Completed		
Write unit tests for plurality	Write unit tests for STV	Create several csv files for different test cases
Code the plurality algorithm	Code the STV algorithm	Create javadoc
Write unit tests for determine shuffle option and shuffling ballots	Code the inputting shuffle option part	
Write unit tests for parsing file	Modify codes for prompting the user for the file name	Create a sample csv file for testing
Write unit tests for reading file name and open file	Coding to prompt user the file name	