Sprint Backlog (04.22.18)

No.	Category	Commited Backlog Items	Tasks	Not Started	In Progress	Finished
1	Title	Droop Quota and Plurality Algorithms' Full Functionalities	Tasks	Not Started	In Progress	Finished
	Description	As a product owner, I want both Droop Quota and Plurality algorithm to be fully implemented, so that I can run elections using these 2 algorithms	Fix bug in Droop (Not distribute votes correctly)			X
	Acceptance Criteria	• Each algorithm should be fully implemented. • Each algorithm should generate stable and correct election results. • Each algorithm should be able to be tested.	Test for Droop algorithm			X
			Test for Plurality algorithm			X
	Effort	Large				
2	Title	Change Shuffle functionalities	Tasks	Not Started	In Progress	Finished
	Description	As a product owner, I want that developers can have the ability to turn on the "developer mode" by adding a "d" argument as the first argument at command line; if not added, the system will go into user mode, so that developers can enter developer mode without interfering the users.	Modify main method to allow user to enter "d" arguement			X
	Acceptance Criteria	• The system functions normally if the "developer" argument is not added as the first input argument for the voting system. • When "developer" is added as the first arguemtent for the voting system, the system go into developer mode. • When the sytem is in developer mode, the system should turn off the shuffle option.	Test if main method is able to handle different combinations of user input			X
			Modify database class to properly set shuffle flag			X
			Test if the shiffle flag is set properly for droop			X
			Test if the shiffle flag is set properly for plurality			X
	Effort	Medium				
3	Title	No User Input	Tasks	Not Started	In Progress	Finished
	Description	As a user, I want to store detailed information such as how many ballots there were, the number of candidates, the number of seats, the election type in the file, so that I do not have to any information other than the file name when I use the voting system.	Determine the format/order of user input in csv file			X
	Acceptance Criteria	• The system can run without error. • The user can include inputs, such as number of winners and algorithm, in the input csv file. • The system should read user input from the csv file.	Modify the main method to eliminate promption of user input			X
			Modify read_file function to read and store user inputs from csv file			X
			Test if use input can be properly read and stored			X
	Effort	Small				
4	Title	CSV FIle Input Mode	Tasks	Not Started	In Progress	Finished
	Description	As a user, I want to be able to choose to run the input file by either including it as an argument, or be prompted to enter an input filename, so that I can have a more flexible way to input the CSV file.	Modify program main function to allow multiple input parameters			X
	Acceptance Criteria	• The system can run without error. • The user can include the input file name as an argument. • If the input file name is not included as an argument, the system will prompt the user to enter the source of the input file.	Modify code to properly store input csv filename			X
			Test program main function when user input file name as an arguement			X
			Test program main function when user does not input file name as an arguement			X
			Test program with developer mode			X
	Effort	Small				
5	Title	Ballot Validation	Tasks	Not Started	In Progress	Finished
	Description	As an election official, I want a ballot to be considered as valid if and only if it has at least half of the candidates ranked when using Droop Quota so that I can fulfill the requirement by my higher ups.	Modify droop quota algorithm to validate ballot while running the election			X
	Acceptance Criteria	• Ballot should not be validated at the point of data collection • Ballot should be validate while running the election • Valid ballot should be properly distributed, invalid ballot should be added to the invalidated votes list.	Test if the validated ballots contribute to the election			X
			Test if invalidated ballots are removed to the invalidated ballot list			X
	Effort	Medium				
6	Title	Get summary from Audit Report	Tasks	Not Started	In Progress	Finished
	Description	As a election official, I want to get a file that has the summary and certification of the election process, so I can get all important information as the time I need.	Implement write_output function in VotingSystem class			X
	Acceptance Criteria	• The system should be able to generate an output file from the election • The output file should contianing the date, type of election, the candidates, the number of seats, and the winners of the election. • The output file shoule be in the same directory as the audit report file	Modify program main function to call write_output()			X
			Test if output file can write properly			X
			Test if the generated output file contains required information			X
	Effort	Medium				