# Sprint Backlog (04.20.18)

| 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 arguemtient 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 | | | | |