

Rank	Product Backlog Item Description	Acceptance Criteria	Effort
1	As the product owner, I would need the OPL and IR algorithms to work fully as described in project 1 so that correct results are being generated.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Results of both elections are displayed to the screen and are correct. 3. Process of election is written to an audit file and is correct. 	Small
2	As an election official, I need all ballots in an IR election that do not have at least half the candidates ranked to be invalidated and written to file named invalidated_dateofelection_xxx in order to audit the election and because ballots need to have at least half the candidates be ranked to be valid and impact the election.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. File invalidated_dateofelection_xxx is written to the directory. 3. It can be shown in the file that removed ballots are the correct ones and are all the invalid ballots in demos and testing. 	Medium
3	As an election official, I would like to see a table of the election showing each round of the IRV and the number of votes that the candidate added/subtracted for that round. I would like the table should be displayed to the screen so that I can inspect the correctness of the runoffs and understand it easily.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Table is formatted properly and displayed to the official after the election is done. 3. The number of votes distributed for each candidate after each election is correct. 	Large
4	I, as the user, would like two ways to run the election file. One would to use a command line argument and the other would be a prompt for the name of the file. This is the only input that I would like to be prompted for and only if I do not run a command line argument.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Both methods work and produce the same results. 3. Only one of the options is working at one time. 	Small
5	I as the user, would like the filename to be the only information requested from me because inputting other information is tedious and prone to error.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Prompt only asks user for filename. 3. Election can be done by reading information from the file itself. 	Small
6	I, as the user, would like to be prompted for the filename via a GUI instead of a text prompt and I would like window to appear and be able to type in a file name or look for a file on disk so that I am not working in the terminal as the official.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. GUI is shown to the user. 3. The correct file is read and the correct results are generated. 	Large

unranked (not in the sprint)	I, as the user, would like the software should be able to handle more ballots and return the election results in a timely manner. It is reasonable to expect upwards of 100,000 ballots.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Runtime of program is reasonable 3. Election results and audit file is correct. 	Not Part of Sprint
unranked (not in the sprint)	I, as the election official, want, in addition to the audit report, a short report that can be printed. The report should have the date, type of election (i.e. IRV or OPL), the candidates, the number of seats, and the winner(s) of the election. Only the pertinent information is on this report.	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. File displays the correct information. 3. Election results are correct. 	Not Part of Sprint
unranked (not in the sprint)	I as the election official, would like to have the ballots input on the screen directly into the program. I like to be able to do this for one machine originally and eventually have the voting machines send the information directly to the system. I want a graphical user interface that looks nice. This mean that a file would become another option for controlling the election and this would provide real-time voting updates. Ineed a way to tell the program what type of election it is, the number of candidates, etc	<ol style="list-style-type: none"> 1. All system and unit tests are passed except for minor bugs like exception handling. 2. Runtime of program is reasonable. 3. GUI should look nice 	Not Part of Sprint