1 Generality of input file location (fix problem from project1)

| As an official<br>I want input file form any location as I want<br>So that official could easily move file around |
| --- |
| Acceptance and Done Criteria: Official could input file from different locations |
| Effort: Small |

2 Identity Invalid Ballots

| As an official<br>When I use the droop algorithm, I don't want to count for ballots that are less than half of candidate ranked. So that the invalidate ballots will not be counted when the election is run with the software system. |
| --- |
| Acceptance and Done Criteria: the algorithm will automatically exclude those ballots which less than half of candidates ranked. |
| Effort: Medium |

3 Manage and generate report for invalid ballots

| As an official<br>When I use the droop algorithm, the system could be able to account for all invalid ballots and generate report to disk that store all invalid ballots.<br>So that the system could be able to manage them, and system could keep track of those invalid ballots for later use. |
| --- |
| Acceptance and Done Criteria: Ballots could be managed accordingly. System could generate report which contains all invalid ballots |
| Effort: Medium |

4 UI design

| As an official<br>I want a graphic user interface for all information I need to input<br>So that official could easily input information |
| --- |
| Acceptance and Done Criteria: Official could input information through UI |
| Effort: Small |

## 5 File explorer functionalities

| As an official |
| --- |
| I want to search for files on the disk and select files from a directory structure. So that I can select files from different directories easier. |
| Acceptance and Done Criteria: there will be interface to directory structure, tester can select file directly through the user interface. |
| Effort: Medium |

## 6 Name the Invalidated File

| As a official |
| --- |
| I want to be able to name the invalidated file whatever I like and store it wherever I like. So that official could easily name and save the file. |
| Acceptance and Done Criteria: there will be an interface to directory structure, and users can name and store their file in that directory. Testers can select names and store the file directly through the user interface. |
| Effort: Medium |

## 7 Printable and deliverable audit report

| As an official |
| --- |
| Besides the audit file, I want an audit report that can be saved and printed, so I can give it to the election certification officials. |
| Acceptance and Done Criteria: The report must have a date, a type of election, the candidate, the number of seats, and the winner of the election. If there were "winners" taken from the "losers" list that did not reach droop or were determined by a coin toss, that they are on the winners list that is given to the officials. Only the pertinent information is on this report. No need for losers. |
| Effort: Large |

## 8 Input ballots info through screen

| As an official |
| --- |
| I want to have the ballots input on the screen directly into the program on one machine So that official could easily input ballot info through screen instead of file |

| Acceptance and Done Criteria: Official could input ballot information through the screen and UI on one machine |
| --- |
| Effort: Medium |

9 Real time ballot information transferring

| As an official<br>I want the have voting machines send the ballot information directly to the<br>system in real time<br>So that official could easily receive ballots information from remote machine |
| --- |
| Acceptance and Done Criteria: Official could receive ballots information from remote machine and used by voting system |
| Effort: Medium |

10 Stop receive ballot and generate result

| As an official<br>I want to stop the election to run the result<br>So that official could stop receive ballots information and run system to generate result |
| --- |
| Acceptance and Done Criteria: Officials are able to stop receiving ballots information and run the result |
| Effort: Medium |