

## **PBI Team 17**

### **PBI #1**

As the product owner, I want: IRV and OPLV to work properly so that the software can be used to determine real election results.
Acceptance criteria: Every part of the software works
Definition done: Software runs as expected, eliminate bug list
Effort: M
PBI Author: Joel Alfveby

### **PBI #2**

As an election official, I want the software to run the popularity only (PO) program, in which the candidate with the most votes is chosen as the winner, so that I can use the software in states/countries where the PO election system is used.
Acceptance criteria: The software calculates the winner for the PO voting system
Definition done: When provided the input csv file, the software calculates the votes received by each candidate, displays the winner and votes on screen, and saves the summary/audit of the election in the current directory.
Effort: M
PBI Author:Ramanish Singh, Joel Alfveby

### **PBI #3**

As an election official, I want the program to take in PO ballots so that the program can determine the results of the election.
Acceptance criteria: The software takes in the data for PO ballots and displays the winner and number of votes
Definition done: The program takes in the csv and correctly parses it
Effort: S
PBI Author:Ramanish Singh, Joel Alfveby

#### PBI #4

As an election official, I want PO results shown on the screen so that I can tell who won and who lost.
Acceptance criteria: stats displayed on screen - winner, losers, percentages
Definition done: The program outputs the statistics to the screen
Effort: S
PBI Author: Joel Alfveby

#### PBI #5

As a user I want the program to be easy to use so that anyone can use it with ease.
Acceptance criteria: The software has a GUI
Definition done: When launched, the software opens a GUI where the user can load the csv file (either by typing the name of the file or choosing a file present in the current working directory) to find the winner of the election
Effort: M
PBI Author: Ramanish Singh

#### PBI #6

As an election official, I want the program to take multiple election ballots from different locations so that all ballots are properly accounted for.
Acceptance criteria: <ul style="list-style-type: none"><li>- Software must be able to accept and handle multiple files</li></ul>
Definition done: <ul style="list-style-type: none"><li>- Software accepts and can handle more than one file at a time</li><li>- Software accepts files from more than one balloting location</li><li>- All unit tests pass per the acceptance criteria</li></ul>
Effort: S
PBI Author: Kanoog Moua

PBI #7

As a tester I want to test everything in the whole program so that we can see if different modules and methods are working.
Acceptance criteria: <ul style="list-style-type: none"><li>- Unit tests and integration test are written</li></ul>
Definition done: <ul style="list-style-type: none"><li>- 80 percent code coverage is achieved</li></ul>
Effort: L
PBI Author: Ramanish Singh

PBI #8

As a tester, I want unit tests for the PO module so that the correctness of the PO module can be adjudged.
Acceptance criteria: <ul style="list-style-type: none"><li>- Tests written for all the methods in the PO module</li></ul>
Definition done: <ul style="list-style-type: none"><li>- All tests written and 80% code coverage</li></ul>
Effort: L
PBI Author: Ramanish Singh

PBI #9

As an election official, I want the IRV ballots to have at least half of the candidates ranked and invalidated ballots marked so that a fair election is guaranteed per State Election guidelines.
Acceptance criteria: <ul style="list-style-type: none"><li>- Software takes in IRV ballots</li><li>- Software ranks candidates rounded from 0.5 or above to the next higher integer value for the ballot to be valid</li><li>- Software removed invalidated ballots</li></ul>
Definition done: <ul style="list-style-type: none"><li>- Invalidated ballots are removed from the election</li><li>- All unit tests pass per the acceptance criteria</li></ul>
Effort: L
PBI Author: Kanoog Moua

#### PBI #10

As an election official I want a way to see the results of each round of IRV so that we can ensure a fair election.
Acceptance criteria: <ul style="list-style-type: none"><li>- Table that is generated at the end of the election</li><li>- The table should have the enough information to recreate the election</li></ul>
Definition done: <ul style="list-style-type: none"><li>- When the program is run a table of each round of IRV is produced</li></ul>
Effort: M
PBI Author: Bat-Ilder Ganbold

#### PBI #11

As an election official I want a short report that has all the important information so that we can quickly see who won and how.
Acceptance criteria: <ul style="list-style-type: none"><li>- Report has date,type of election, IR or OPL, the candidates, number of seats, and the winner</li></ul>
Definition done: <ul style="list-style-type: none"><li>- When the report is produced correctly when the program is run</li></ul>
Effort: M
PBI Author:Bat-Ilder Ganbold

#### PBI #12

As an election official, I want ballots that have been invalidated to be in one file so that a fair election can be verified to have taken place.
Acceptance criteria: <ul style="list-style-type: none"><li>- Software removes invalidated ballots from the election calculation</li></ul>
Definition done: <ul style="list-style-type: none"><li>- The name of the file containing the invalidated ballots is named <i>"invalidated_dateofelection..."</i></li><li>- All unit tests pass per the acceptance criteria</li></ul>
Effort: M
PBI Author: Kanoog Moua