Team 11 initial product backlog

ID:	US01
Name:	IR and OPL election
Description:	As a product owner, I want the new system to be compatible with previous IR and OPL system, and all the functionality works correctly, So that I can run IR and OPL elections to get the winner(s).
Acceptance Criteria:	•New software can run IR and OPL •New software can read IR and OPL ballots as formatted below Example File Generated for Instant Runoff voting: IR 4 Rosen (D), Kleinberg (R), Chou (I), Royce (L) 6 1,3,4,2 1,,2, 1,2,3, 3,2,1,4 ,,1,2 ,,,1 1st Line: IR if instant runoff 2nd Line: Number of Candidates 3rd Line: The candidates separated by commas 4th Line: Number of ballots in the file OPL 6 [Pike,D], [Foster,D],[Deutsch,R], [Borg,R], [Jones,R],[Smith,I] 3 9 1,,,,, 1,,,,, ,1,,,, ,,,,1, ,,,,,1 ,,,1,, ,,,1,, 1,,,,, ,1,,,, 1st Line: OPL for open party listing 2nd Line: Number of Candidates 3rd Line: The candidates and their party in [ ]. Notice the name and party are separated by commas. 4th Line: Number of Seats 5th Line: Number of Ballots •Give correct results when testing IR and OPL election
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Small
PBI author(s):	Zilong He

ID:	US02
Name:	PO election
Description:	As an election official, I want the new system to support PO election, so that I can know who wins PO election
Acceptance Criteria:	•New system successfully perform PO election without error •A fair coin toss is performed when there is a tie •The winner is displayed at the end
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Large
PBI author(s):	Jicheng Zhu

ID:	US03
Name:	read PO ballots
Description:	As an election official, I want PO ballots to be read in via a CSV file, so that I can run my election.

Acceptance Criteria:	•Read in a CSV file as formatted below
	
	<pre>PO
	6
	[Pike,D], [Foster,D],[Deutsch,R], [Borg,R], [Jones,R],[Smith,I]
	9
	1,,,,,
	1,,,,,
	,1,,,,
	,,,,1,
	,,,,,1
	,,,1,,
	,,,1,,
	1,,,,,
	,1,,,,</pre>
	
	1st Line: PO for Popularity Only
	2nd Line: Number of Candidates
	3rd Line: The candidates and their party in [ ]. Notice the name and party are separated by commas.
	4th Line: Number of Ballots

Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Large
PBI author(s):	Jicheng Zhu

ID:	US04
Name:	Display the result
Description:	As an election official, I would like the PO stats displayed to the screen at the end of the election, so that I know who won and who lost.
Acceptance Criteria:	•The result(winner and loser) is displayed on the screen with needed detail. •The percentage of votes each candidate received is displayed.
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Medium
PBI author(s):	Chenxuan Liu

ID:	US05
Name:	Run multiple files
Description:	As an election official, I want that the program can handle multiple files, so that I can bring in different files from different locations.
Acceptance Criteria:	•When input multiple files of different election, the program should give correct results
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Small
PBI author(s):	Zilong He

ID:	US06
Name:	GUI
Description:	As a user using the software, I prefer to have a GUI interface instead of a text prompt, So that it is easy to use.
Acceptance Criteria:	•As a user using the software, I prefer to have a GUI interface instead of a text prompt. So that user should be able to type in a file name or look for file(s) on disk using their mouse or arrow keys.
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Extra Large
PBI author(s):	Chenxuan Liu

ID:	US07
Name:	Check the invalidated ballot
Description:	As a user using the software, I want to check if a ballot is valid and store all invalid ballots in a separate file, So that I can remove invalid ballots and make sure the result is correct.
Acceptance Criteria:	•Mark the ballot invalid if it doesn't have at least half of the candidates ranked •A file was generated that stored all the invalid ballots •The name of the file is invalidated_dateofelection.xxx
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Medium
PBI author(s):	Yingwen Weng

ID:	US08
Name:	Generate table
Description:	As an officials, I want to display a table showing each round of IRV and how many votes the candidate gained/lost in that round, So that I can clearly understand what is going on in the election.
Acceptance Criteria:	•Record the IRV for each round and how many votes the candidate gained/lost in that round •The table is displayed on the screen at the end of the election
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Medium
PBI author(s):	Yingwen Weng

ID:	US09
Name:	Audit report
Description:	As an election official, In addition to the audit report, I want a short report with pertinent information, So that it can be printed and given to the election certification officials.
Acceptance Criteria:	•A short report including the date, type of election, the candidates, the number of seats, and the winner(s) of the election is generated
Definition of Done:	•Pass all regression tests •Pass testing per acceptance criteria items •Able to show features using demo
Effort:	Small
PBI author(s):	Zilong He