

TEAM - 22

NAME & X500:

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Product backlog item 1: Access PO ballot data

As an election official, I want to access PO only ballot and store data of it So that I would know the PO ballots are being accessed and the data of them can be stored for later use.
Acceptance Criteria: <ul style="list-style-type: none">• Access PO ballot• Process .csv file• Able to read in a .csv file with a specific format• Store ballot data
Definition of Done: <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes
Effort: Medium
PBI Author(s): Moyan Zhou

Product backlog item 2: PO election

As an election official, I want add a new voting algorithm, So that I determine a single winner based on the candidate receiving the most ballots with a fair coin toss if there is a tie or ties between candidates.
Acceptance Criteria: <ul style="list-style-type: none">• Generate correct single winner based on most ballots• Handle tie(s)
Definition of Done: <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes
Effort: Large

PBI Author(s): Moyan Zhou

Product backlog item 3: Display PO stat result

As election official

I want to add the feature to display the election statistical data in detail. Let the audiences/election officers clearly see the result on the screen. (Include percentage of candidate receive etc)

Acceptance Criteria:

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| <ul style="list-style-type: none">• Able to display detailed statistical data/information on the screen.• The statistical data should be correct.• Clearly show the election results (who won or lost) |
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Definition of Done:

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| <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes |
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Effort: Extra Large

PBI Author(s) Yiming Yao

Product backlog item 4: Multiple Files

As election official,

I want to add the feature to accept multiple .csv files. In order to handle different balloting locations.

Acceptance Criteria:

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| <ul style="list-style-type: none">• Accept multiple .csv files/ folders• Validate file name• Access correctly |
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Definition of Done

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| <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes |
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Effort: Large

PBI Author(s) Yiming Yao

Product backlog item 5: GUI Window

As an election official I want use mouse or arrow keys to select file in GUI window when prompting So that It is more friendly and convenient
Acceptance Criteria: <ul style="list-style-type: none">• A GUI window shows up to help user select file• User is able to use mouse or arrow key
Definition of Done: <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes
Effort: Large
PBI Author(s): Hao Wu

Product backlog item 6 : Remove Invalid Ballots IRV

As election officials I want remove invalid ballots Because invalid ballots will affect the accuracy of result
Acceptance Criteria: <ul style="list-style-type: none">• Validate if ballots are following the format• Invalid ballots are not going to be stored
Definition of Done: <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Ballot need to have at least half of the candidates ranked, rounded up from .5 to the Next higher integer• Complete documentation• Refactor and clean up the codes
Effort: medium
PBI Author(s): Hao Wu

Product backlog item 7 : Audit File for invalid ballots

As election officials I want to generate audit file Because I want to record for invalid ballots
Acceptance Criteria: <ul style="list-style-type: none">• The audit file records all the invalid ballots• The file name is supposed to be invalidated_dateofelection.xxx
Definition of Done: <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Audit file contains all the invalid ballots, total number of ballots is correct• The file name is supposed to be invalidated_dateofelection.xxx• Complete documentation• Refactor and clean up the codes
Effort: medium
PBI Author(s): Hao Wu

Product backlog item 8 : Display table for IRV

As election officials I want to see a table at the end of the election showing each round of the IRV So that we can see the number of votes the candidate has added/subtracted for the rounds.
Acceptance Criteria <ul style="list-style-type: none">• Table displayed successfully at the end of election with details of:<ul style="list-style-type: none">○ candidates name○ Party types○ votes for each candidate for each rounds (added/subtracted)○ total votes
Definition of Done <ul style="list-style-type: none">• Passes all unit tests• Passes testing per acceptance criteria items• Able to show features for demo• Complete documentation• Refactor and clean up the codes
Effort: Medium
PBI Author(s) Akar Kaung

Product backlog item 9 : Short report

As election officials
I want to see a short report
So that the election certification officials can see the overview of the election result.

Acceptance Criteria

- Generate short report file which includes:
 - Date
 - Type of election
 - Candidates
 - Number of seats if applicable
 - Winner(s) of the election

Definition of Done

- Passes all unit tests
- Passes testing per acceptance criteria items
- Able to show features for demo
- Complete documentation
- Refactor and clean up the codes

Effort: Small

PBI Author(s) Akar Kaung