**TEAM 24 INITIAL PRODUCT BACKLOG**

| **PBI 1.1**  As an election official,  I want to be able to run an IR election and get the winner  So that the election process is efficient.  **Acceptance Criteria:**  I’m able to run my IR election  I’m able to see the winner  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. The correct winner is thoroughly tested and outputted correctly  **Effort:** Medium |
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| **PBI 1.2**  As an election official,  I want to be able to run a CPL election and get the winners  So that the election process is efficient.  **Acceptance Criteria:**  I’m able to run my CPL election  I’m able to see the winners  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. The correct winner is thoroughly tested and outputted correctly  **Effort:** Medium |
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| **PBI 2.1**  As an election official,  I want the program to handle a PO election  So that the election can be processed efficiently.  **Acceptance Criteria:**  I’m able to run a PO election  I’m able to see the winners  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. The correct winner is thoroughly tested and outputted correctly  **Effort:** Medium |
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| **PBI 2.2**  As an election official,  If there’s a tie in the PO election, I want it to be handled fairly  So the election was just.  **Acceptance Criteria:**  I’m able to run a PO election  I’m able to see the winners  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. The winner is thoroughly tested and no bias results from tiebreakers.  **Effort:** Small |
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| **PBI 2.3**  As an election official,  I want an audit file produced with the PO election,  So I can satisfy the secretary of state.  **Acceptance Criteria:**  I’m able to run a PO election.  I’m able to get an audit file from the resulting election.  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. Correct audit file produced.  **Effort:** Small |
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| **PBI 3.1**  As an election official,  All the incoming files should have everything that is needed to run the election, except the dates of the election.  **AC:**  The program goes and calculates the election  The date requested pops up if needed  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  Effort: Small |
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| **PBI 3.2**  As an election official,  I would like a simple, user-friendly interface to enter the files into the system so that the program can process them  **AC:**  The file can be entered into the system successfully  A user-friendly interface has popped up  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  Effort: Small |
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| **PBI 4**  As an election official,  I want to be able to enter a PO election ballot in the form of a .csv file into the program so that I can run the election.  Acceptance Criteria:  The program can find an input PO.csv file and read it successfully.  The program starts the fully-functional election system to get the results.  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. PO Ballot is successfully recorded.  Effort:  Small |
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| **PBI 5**  As an election official, I want to see the statistics of a PO election at the end so I can clearly see the end of the PO election and statistics.  **Acceptance Criteria:**  The results are displayed on the screen in a clear and organized manner. I can see who won and who lost at the end. I can see the percentage of votes for each candidate.    **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.    Effort:  Large |
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| **PBI 6.1**  As an election official,  I will receive multiple files from different polling locations and would like to bring that in  So that the process is efficient.  **Acceptance Criteria:**  I’m able to bring in multiple files instead of one.  I’m prompted to bring in another file if I have any more.  **Definition of Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  **Effort:**  Small |
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| **PBI 6.2**  As an election official,  The files brought in successions should contain the same election information  So that the election conducted is consistent.  **Acceptance Criteria:**  I’m aware of the files conflict with each other.  The files were able to be read and processed.  **Definition of Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  **Effort:**  Small |
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| **PBI 6.3**  As an election official,  I have many multiple files from different polling locations and would like to conduct an IR election with them, so that the election is processed smoothly and efficiently.  **Acceptance Criteria:**  The files inputted were processed and I can get the results.  I can see who won the election.  **Definition of Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  **Effort:**  Medium |
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| **PBI 6.4**  As an election official,  I have many multiple files from different polling locations and would like to conduct a CPL election with them, so that the election is processed smoothly and efficiently.  **Acceptance Criteria:**  The files inputted were processed and I can get the results.  I can see who won the election.  **Definition of Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  **Effort:**  Medium |
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| **PBI 7.1**  As an election official,  I want an easy way to be able to type a filename into a search bar so that it’s easy to load in a file.  Acceptance criteria:  Users are able to find the file they are looking for.  A file is able to be selected and loaded.  Done:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  Effort: Large |
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| **PBI 7.2**  As an election official, I want to be able to use the arrow keys on my keyboard and mouse to look for specific files in the search window  Acceptance criteria:  User is able to find the files they are looking for  All files are successfully able to be located  Done:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  Effort: Large |
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| **PBI 8**  As an election official,  I want to make sure the ballots are validated based on a requirement. I also want to see which ballots got invalidated at the end.  So that the election was conducted accurately and fair due to exclusion of invalid ballots.  **Acceptance Criteria:**  I’m able to access the file containing invalid ballots.  The file contains all invalid ballots.  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.    **Effort:** Medium |
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| **PBI 9**  As an election official,  I want to be able to view a table at the end of the IRV election showing each round and the candidate's vote count changes. So, I can see the candidate's vote count changes.  **Acceptance Criteria:**  At the end of the IRV election, I can see the table that shows each round of the election and the vote count changes for each candidate in that round. The table shows the correct stats.  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.    **Effort:**  Medium |
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**PBIS from our Buglist**

| **PBI 10**  As an election official,  I want the program to read correctly the list of candidates from the .csv file that is entered  **Acceptance Criteria:**  The list of candidates was shown correctly.  There is a space instead of a new line between each candidate in the file.  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.  **Effort:**  Small |
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| **PBI 11**  As an election official, I want to assign the remaining seats after the first round of allocation to other parties randomly, so that all seats will be filled at the end of the election.  **Acceptance Criteria:**  I am able to see when there are empty seats. All the empty seats are allocated. There are no missing seats at the end of the election.  **Definition of Done:**  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines.The remaining seat is assigned to the parties randomly  **Effort:**  Small |
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| **PBI 12**  As an election official,  When there is a tie, I want it to be handled fairly like a coin toss  So that there is fairness in the election.  **Acceptance Criteria:**  I’m able to see that there was a tie.  There is only one winner and not multiple in the case of a tie.  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. The winner is thoroughly tested and no bias results from tiebreakers.  **Effort:** Small |
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| **PBI 13**  As an election official, I want an audit file named by the election’s details so I can easily identify my output and satisfy the secretary of state.  **Acceptance Criteria:**  An audit file is produced at the end of the election.  The audit file is correctly named other than a generic name.  **Done**:  Unit testing passed. Integration testing passed. Documentation recorded. Verify compilation on CSE labs machines and on personal machines. Multiple .csv files are run and the resulting adult file is produced for each.  **Effort:**  Small |
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