

## Sprint Backlog Team 7

Committed Backlog Items	Task Not Started	Task In Progress	Task Done
<p>As an Election Official I would like to be able to run the system without any bugs</p> <p>Acceptance Criteria:</p> <ol style="list-style-type: none"> <li>1) System will request for input file via terminal</li> <li>2) System will process OPL election file</li> <li>3) System will process CPL election file</li> <li>4) System will create audit file for the election</li> <li>5) System will create in same directory media file for the election</li> <li>6) System will create in same directory summary file for the election</li> <li>7) System will output to the terminal contents of the summary file</li> <li>8) System will process election file of</li> </ol>			<ul style="list-style-type: none"> <li>• Go over unit tests for FileNameValidator class and confirm that it has sufficient coverage</li> <li>• Go over unit tests for UserInput class and confirm that it has sufficient coverage</li> <li>• Implement tie breaker for CPLLargestRemainder SeatAllocator</li> <li>• Implement tie breaker for OPLLargestRemainder SeatAllocator</li> <li>• Add unit tests for Summarizer class</li> <li>• Implement summarizer class</li> <li>• Add unit tests for toMediaFormat for LargestRemainderSeat AllocatorFormatter</li> <li>• Add unit tests for toSummaryFormat for LargestRemainderSeat AllocatorFormatter</li> </ul>

<div data-bbox="262 224 569 542"> <p>100,000 ballots in less than 5 minutes</p> <p>9) System will allocate seats using largest remainder seat allocation</p> <p>10) Seat allocation ties are broken using 'coin toss'</p> </div> <div data-bbox="216 574 455 607"> <p>Effort: Extra Large</p> </div>			<ul style="list-style-type: none"> <li>• Add unit tests for toSummaryFormat for LargestRemainderSeat AllocatorFormatter</li> <li>• Complete OPLLargestRemainder SeatAllocator to allocate seats the first round</li> <li>• Complete CPLLargestRemainder SeatAllocator to allocate seats the second round without tie breaker</li> <li>• Complete OPLLargestRemainder SeatAllocator to allocate seats the second round without tie breaker</li> <li>• Implement assignAllocatedSeats for OPLLargestRemainder SeatAllocator</li> <li>• Implement assignAllocatedSeats for CPLLargestRemainder SeatAllocator</li> <li>• Go over unit tests for OPLElectionFileParser</li> </ul>
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			<p>and confirm that it has sufficient coverage</p> <ul style="list-style-type: none"><li>• Go over unit tests for CPLElectionFileParser and confirm that it has sufficient coverage</li><li>• Go over Audit class and confirm that it has sufficient coverage</li><li>• Go over OPLLargestRemainder SeatAllocator and confirm that it has sufficient unit tests</li><li>• Complete CPLLargestRemainder SeatAllocator to allocate seats the first round</li><li>• Go over unit tests for ElectionFile class and confirm that it has sufficient coverage</li><li>• Go over unit tests for OPLTeller class and confirm that it has sufficient coverage</li><li>• Go over unit tests for CPLTeller class and confirm that it has sufficient coverage</li><li>• Go over unit tests for OPLElectionFileParser</li></ul>
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			<p>and confirm that it has sufficient coverage</p> <ul style="list-style-type: none"><li>• Go over unit tests for CPLElectionFileParser and confirm that it has sufficient coverage</li><li>• Go over Audit class and confirm that it has sufficient coverage</li><li>• Go over OPPLargestRemainder SeatAllocator and confirm that it has sufficient unit tests</li><li>• Complete CPLLargestRemainder SeatAllocator to allocate seats the first round</li><li>• Complete OPPLargestRemainder SeatAllocator to allocate seats the first round</li><li>• Complete CPLLargestRemainder SeatAllocator to allocate seats the second round without tie breaker</li><li>• Complete OPPLargestRemainder SeatAllocator to</li></ul>
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			<p>allocate seats the second round without tie breaker</p> <ul style="list-style-type: none"><li>• Implement assignAllocatedSeats for OPLLargeRemainderSeatAllocator</li><li>• Implement assignAllocatedSeats for CPLLargeRemainderSeatAllocator</li><li>• Implement toSummaryFormat for LargestRemainderSeatAllocatorFormatter</li><li>• Implement toMediaFormat for LargestRemainderSeatAllocatorFormatter class</li><li>• Implement toAuditFormat for LargestRemainderSeatAllocatorFormatter</li><li>• Add acceptance test to verify that program requests user for election file in terminal</li><li>• Add acceptance test to verify that program exits if file does not</li></ul>
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			<p>exist with warning message</p> <ul style="list-style-type: none"><li>• Add acceptance test to verify that the program processes OPL election file and produces summary output and summary file with the correct contents</li><li>• Add acceptance test to verify that the program processes CPL election file and produces summary output and summary file with the correct contents</li><li>• Add acceptance test to verify that the program processes OPL election file and produces audit file with the correct contents</li><li>• Add acceptance test to verify that the program processes CPL election file and produces audit file with the correct contents</li><li>• Add acceptance test to verify that the program processes OPL election file and</li></ul>
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			<p>produces media file with the correct contents</p> <ul style="list-style-type: none"> <li>• Add acceptance test to verify that the program processes CPL election file and produces media file with the correct contents</li> <li>• Add acceptance test to verify that program processes CPL election file with 100,000 ballots in under 5 minutes</li> <li>• Add acceptance test to verify that program processes OPL election file with 100,000 ballots in under 5 minutes</li> <li>• Add unit tests for Summarizer class</li> <li>• Implement summarizer class</li> </ul>
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<p>As an Election Official I want to be able to choose where I would like to save the audit file</p> <p>Acceptance Rate:</p> <ol style="list-style-type: none"> <li>1) It should be able to be saved in a different directory</li> <li>2) A GUI should allow me to choose a location to save the file</li> </ol> <p>Effort: Medium</p>			<ul style="list-style-type: none"> <li>• Add code to run GUI on startup</li> <li>• Add acceptance test which verifies if the GUI is launched when “Set audit directory” is triggered</li> <li>• Add acceptance test which verifies if the GUI can choose a directory</li> <li>• Implement the code to actually launch the GUI and get the directory where to store the files</li> <li>• Add acceptance test which verifies if the GUI can choose a directory</li> <li>• Implement the code to actually launch the GUI and get the directory where to store the files</li> <li>• Add acceptance tests to verify that the audit file gets stored in the directory specified by the GUI</li> <li>• Modify the code base to actually save the audit file where specified by the GUI</li> <li>• Add code to run GUI on startup</li> </ul>
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<div>As an Election Official I would like to use a GUI</div> <div>           Acceptance Rate:           <ol style="list-style-type: none"> <li>1) GUI should let me choose an election file</li> <li>2) GUI should let me choose where to save the audit file</li> <li>3) GUI should let me run program by pressing a "run" button</li> <li>4) GUI should warn me if an election file or audit file destination is not chosen</li> </ol> </div> <div>Effort: Medium</div>			<ul style="list-style-type: none"> <li>• Add code to run GUI on startup</li> <li>• Add acceptance test to verify that GUI has "Choose audit destination", "Choose election file", "Run" buttons</li> <li>• Add acceptance test to verify that GUI runs on startup</li> <li>• Add code to run GUI on startup</li> <li>• Add acceptance test to verify that GUI has "Choose audit destination", "Choose election file", "Run" buttons</li> <li>• Add code to add "Choose audit destination" button</li> <li>• Add code to add "Choose election file" button</li> <li>• Add code to add "Run" button</li> </ul>
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			<ul style="list-style-type: none"><li>• Add acceptance test to verify that code actually runs on "Run"</li><li>• Add code to trigger main on "Run"</li><li>• Add acceptance to test if a warning message is shown if election file is not chosen on run</li><li>• Add acceptance to test if a warning message is shown if audit directory is not chosen on run</li><li>• Add code to trigger warning message if election file is not chosen on run</li><li>• Add code to trigger warning message if audit directory is not chosen on run</li></ul>
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