

Sprint Backlog

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Assignee:

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Priority:

High

User stories	To do	In progress	Complete
<div><div>#1: BUG 1</div><div><div>- As the product owner, I want the OPL audit process to get fixed when tie occurs. In other words, the current tie handling functionalities of OPL need to be fixed, so the election can operate properly.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of OPL tie handling. (Unit test for Audit() function)Pass ALL functional/integration test with input has a tie occurs. (Input_OPL_tie_1.csv, Input_OPL_tie_2.csv,...)Tie handling is fairly random.All errors in Audit() and TieHandling() are fixed if having any.</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>	<div><div>Update UnitTest</div></div>	<div><div>Fix Audit() OPL when tie occur, make sure Audit() are fully tested</div><div>Test Log for OPL</div></div>	
<div><div>#2: BUG 2</div><div><div>- As the product owner, I want the CPL audit process to get fixed when tie occurs. In other words, the current tie handling functionalities of CPL need to be fixed, so the election can operate properly.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of CPL tie handling. (Unit test for Audit() function)Pass ALL functional/integration test with input has a tie occurs. (Input_CPL_tie_1.csv, Input_CPL_tie_2.csv,...)Tie handling is fairly random.All errors in Audit() and TieHandling() are fixed if having any.</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>	<div><div>Update UnitTest</div></div>	<div><div>Fix Audit() CPL when tie occur, make sure Audit() are fully tested</div><div>Test Log for CPL</div></div>	
<div><div>#3: BUG 3</div><div><div>- As the product owner, I want the report.ExportToFile() function for OPL to get fixed. Currently, the function is NOT exporting enough information (e.g how many votes a candidate or party had, order of ballot of being received,...). When the function gets fixed, the election report can provide correct information to users.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of OPL's Report Export To File. (Unit test for ExportToFile() function)Developers provide a consistent "content" format for ALL OPL output files.Developers provide a consistent "name" format for ALL OPL output files.All errors in ExportToFile() are fixed if having any.Include votes a candidate or party hadInclude order of ballot of being received</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>	<div><div>Fix ExportToFile() OPL, include votes a candidate or party had, order of ballot of being received</div><div>Check Automatic &Manual Test</div></div>		
<div><div>#4: BUG 4</div><div><div>- As the product owner, I want the report.ExportToFile() function for CPL to get fixed. Currently, the function is NOT-exporting enough information (e.g how many votes a candidate or party had, order of ballot of being received,...). When the function gets fixed, the election report can provide correct information to users.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of CPL's Report Export To File. (Unit test for ExportToFile() function)Developers provide a consistent "content" format for ALL CPL output files.Developers provide a consistent "name" format for ALL CPL output files.All developers MUST look at the output files manually and agree that is correct format.All errors in Export To File are fixed if having any.Include votes a candidate or party hadInclude order of ballot of being received</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>	<div><div>Fix ExportToFile() OPL, include votes a candidate or party had, order of ballot of being received</div><div>Check Automatic &Manual Test</div></div>		
<div><div>#5: BUG 5</div><div><div>- As the product owner, I want the report.Display() function for OPL to get fixed. Currently, the function is NOT displaying enough information and has some errors (e.g column not aligned, missing information). When the function gets fixed, the election report can provide correct information to users.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of OPL's Report Display. (Unit test for Display() function). Most of the time, those tests are manual tests.Developers provide a consistent "content" format when displaying the OPL voting type.All missing information are included (See description document for more information about what should be included while displaying)All errors in Displaying are fixed if having any.Column are aligned</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>			<div><div>Fix OPL Display</div><div>Does Manual Test</div><div>Change the Display Format</div></div>
<div><div>#6: BUG 6</div><div><div>- As the product owner, I want the report.Display() function for CPL to get fixed. Currently, the function is NOT displaying enough information and has some errors (e.g column not aligned, missing information, POINTER EXCEPTION occurs). When the function gets fixed, the election report can provide correct information to users.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">Pass ALL unit test of CPL's Report Display. (Unit test for Display() function). Most of the time, those tests are manual tests.Developers provide a consistent "content" format when displaying the CPL voting type.All missing information are included (See description document for more information about what should be included while displaying)All errors in Displaying are fixed if having any.Fix POINTER EXCEPTION (occur either in Audit() or Display())Column are aligned</div><div>- Effort: Small</div><div>- Status: Not Started</div></div></div>			<div><div>Fix CPL Display</div><div>Does Manual Test</div><div>Change the Display Format</div></div>
<div><div>#7: BUG 7</div><div><div>- As the product owner, I want the UNIT TESTS and SYSTEM TESTS to be provided to cover ALL possible scenarios and functionalities (tests were missed from Project1). So the voting system can be fully tested.</div><div>- Acceptance Criteria:<ul style="list-style-type: none">ALL possible test cases are provided.ALL possible input for test cases are provided.Testing log file is provided and included descriptions of each test case.Tests for Audit() are includedTests for HandlingTie() are included</div><div>- Effort: Medium</div><div>- Status: In progress</div></div></div>			<div><div>Adding Unit Tests Implementation</div><div>Adding System Test Implemetation</div><div>Adding Unit Tests Inputs</div><div>Adding System Test Inputs</div></div>
<div><div>#8: Search Input File and GUI search</div><div><div>As <Election Official> I want to be able to search for a CSV input file and use a nice graphic interface to search for the input file.</div><div>Acceptance Criteria:<ul style="list-style-type: none">Graphic Interface is implemented and easy to useGraphic Interface has the feature to filter the only files with the selected file extension.Test the return of Search to make sure the file selected is corrected</div><div>Effort: Large</div><div>Status: Not Started</div></div></div>	<div><div>UnitTest and Test Logs</div><div>Manually testing GUI</div><div>Impementing GUI functionalities (e.g. button.OnSelect())</div></div>	<div><div>Design GUI (.xml or using Graphical Library) for File Search</div><div>Adding MVC model to Voting System</div></div>	<div><div>Documentation Doxygen</div><div>Researching NANOGUI for our nice graphical user interface</div><div>Error Checking if File Selected is not in Correct Format (VotingSystemController)</div></div>
	<div>Impementing</div>		

#9: GUI name and save

As <Election Official>:
I want to be able to name the audit file and choose where to store the file.
It has to be done using some kind of a user graphic interface so that I can easily find the audit file later on if needed.

Acceptance Criteria:

- File created with the chosen name and chosen location successfully.
- The graphic interface is implemented and easy to use
- Filename condition tested for only allow characters and ask the user to re-enter if the file name is violated rules of the filename

Effort: Medium

Status: Not Started

Implementing GUI functionalities (e.g. button.OnSelect())

Documentation (Doxygen)

Manually testing GUI

Error Checking if File Saved is Existed

Automatic testing and Test Logs

Design GUI (.xml or using Graphical Library) for Naming File and Save File

#10: Audit file includes related information.

As <Election Official>:
I want my audit files from the output of the voting system including type of election, the candidates and their parties, the number of seats, the winner(s) of the election.

Acceptance Criteria:

- Audit files create successfully and can be open
- Test for all data needed is included in the audit files
- All data in the audit files are in an easy reading form

Effort: Small

Status: Not Started

Adding in Report (date, type of election, candidates, number of seats, winners)

Update the Audit() that additional information to

Update Test for Audit()

Update UnitTest for Report()

#11: A short report printed out and given to the election certification officials.

As <Election Official>:
I want a short report printed and given to the election certification officials.

Acceptance Criteria:

- Short report prints out in a readable format.
- Information print out successfully
- The short report prints out successfully

Effort: Small

Status: Not Started

Adding UnitTesting and Test Log

Unit Test the Report

Implement ExportShortReport()

Implementing ExportShortReport() for CPL

Documenting (Doxygen)

#12: Test time

As <Developer>:
I want the program to run efficiently.

Acceptance Criteria:

- An optional function to run time of the program.
- The function to print out a flag when calling ./.votings

Effort: Small

Status: Not Started

Adding Unit Testing and Test Log

Adding Unit Testing and Test Log

Adding Unit Testing and Test Log for Audit()

#13: Input Ballot in Terminal

As <Election Official>:
I want to be able to enter ballots on the screen directly to a program and store it into CVS file for audit process running later. So I can create ballots for the voting system.

Acceptance Criteria:

- Able to enter the type of voting, OPL or CPL,
- Able to enter all of the information needed to create the ballot (e.g ids, votes, ...)
- The ballots information on days after the election will not be counted.

Effort: Medium

Status: Not Started

Implementing function that users can input OPL and CPL in Terminal

Implementing the function that handle after input closed, will not

Testing ballots inputs in Terminal

Saving input to CSV

Unit Test and Test Log

Implementing function that user can input the ballots in terminal

#14: Handle errors for input ballots

As <Developer>:
I want erroneous inputs from the ballot file to be detected and handled without causing a crash.

Acceptance Criteria:

- Passing tests of incorrectly formatted inputs without crashing
- Notification of the error to the user at runtime.

Effort: Medium

Status: Not Started

Testing of incorrectly formatted inputs with error

Implementing function that checking errors for input ballots in Terminal

Testing runtime errors

Handling runtime input errors. When errors occur, notify user.

#15: Able to stop input ballot from terminal

As <Election Official>:
I want to be able to input ballots live from the terminal and stop inputting when need be.

Acceptance Criteria:

- A way to detect if the ballot inputter is attempting to stop inputting and run the program.
- A way for the user to input another ballot after already inputted one.

Effort: Medium

Status: Not Started

Implementing function that stop users at ballots terminal

Testing Detect ballots input