The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_01**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 1
2. Election type: STV
3. Ballot Files: test1_invalid_1.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 100 invalid ballots out of 100 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_02**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 2
2. Election type: STV
3. Ballot Files: test1_invalid_only_.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 100 invalid ballots out of 100 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_03**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV
3. Ballot Files: test2_invalid_1.csv, test2_invalid_1.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct (handle with duplicate ballot files)
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 8 invalid ballots out of 20 ballots
3. The printing result is correct
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_04**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV
3. Ballot Files: test2_invalid_1.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable

2. The invalid ballot .txt file indicates that there are 8 invalid ballots out of 8 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_05**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Test mode: on
2. Number of seats: 1
3. Election type: STV
4. Ballot Files: test2_invalid_only.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 8 invalid ballots out of 8 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_06**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV
3. Ballot Files: test3_invalid_1.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 565 invalid ballots out of 999 ballots
3. The printing result is correct
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_07**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Test mode: on
2. Number of seats: 5
3. Election type: STV
4. Ballot Files: test3_invalid_only.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 565 invalid ballots out of 565 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_08**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV

3. Ballot Files: test4_invalid_1.csv, test4_invalid_2.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 850 invalid ballots out of 2000 ballots (259 ballots in test4_invalid_1.csv and 1741 ballots in test4_invalid_2.csv)
3. The printing result is correct
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Rerun System Tests to Verify All Changes for Invalid Ballot File Works*
Unique Testing Number: **ST_09**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 4
2. Election type: STV
3. Ballot Files: test4_invalid_only.csv

Tests:

1. Check if invalid ballot file is generated
2. Check if the information in invalid ballot file is correct
3. Check if the printing result is correct
4. Check if audit file is generated

Outputs:

1. An invalid ballot .txt file was generated and saved inside the same directory as the voting_app executable
2. The invalid ballot .txt file indicates that there are 850 invalid ballots out of 850 ballots
3. The printing result is correct: the winners vector is empty
4. An audit .txt file was generated and saved inside the same directory as the voting_app executable

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Test Function That Writes Invalid Ballot Info Into File*
Unique Testing Number: **UT_votingapp_writeToInvalidBallotFile_01**

Team Member(s) Responsible:

Brendan Ritchie (ritch167)

Inputs:

A call to the writeToInvalidBallotFile() function with an empty std::stringstream object

Tests:

5. Assert that the name of the file matches the expected regex pattern
6. Assert that the file is able to be opened without errors
7. Assert that the file does not contain anything except an EOF

Outputs:

A message to indicate the tests passed, or a message indicating one of the asserts failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Test Function That Writes Invalid Ballot Info Into File*
Unique Testing Number: **UT_votingapp_writeToInvalidBallotFile_02**

Team Member(s) Responsible:

Brendan Ritchie (ritch167)

Inputs:

A call to the writeToInvalidBallotFile() function with a empty std::stringstream object containing the text “this is text”

Tests:

1. Assert that the name of the file matches the expected regex pattern
2. Assert that the file is able to be opened without errors
3. Assert that no more than 12 characters are read out of the file before hitting an EOF
4. Assert that the text read out of the file matches “this is text”

Outputs:

A message to indicate the tests passed, or a message indicating one of the asserts failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Report saved to disk that stores all of the Ballots that are invalidated*
Task Description: *Test Function That Displays the Invalid Ballot File Name*
Unique Testing Number: **UT_votingapp_displayInvalidBallotFileName_01**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

The file name for the invalid ballot file

Setup:

The invalid ballot file name is an empty string
Tests: Test if the function print out the correct information which is “Invalid Ballot File location: ”
Outputs: Pass message or an error message indicating which test failed
Passed
20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number: **PBI:** *Report saved to disk that stores all of the Ballots that are invalidated* **Task Description:** *Test Function That Displays the Invalid Ballot File Name* **Unique Testing Number: UT_votingapp_displayInvalidBallotFileName_02**
Team Member(s) Responsible: Yiwen Xu (xu000515)
Inputs: The file name for the invalid ballot file **Setup:** The invalid ballot file name is “Test”
Tests: Test if the function print out the correct information which is “Invalid Ballot File location: Test”
Outputs: Pass message or an error message indicating which test failed
Passed
20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Refactor processFiles() Function*
Unique Testing Number: **UT_votingapp_refactor_processFiles_01**

Team Member(s) Responsible:

Yifan Zhang (zhan4372)

Inputs:

The type of election

Setup:
The input is “STV”
The input ballot file is set to be test1_invalid_1.csv where it contains 100 invalid ballots and 10 candidates

Tests:

1. Test if there is only one input ballot file
2. Test if the ballots_ vector which contains all valid ballots is empty
3. Test if the length of the candidates_ vector which contains all candidates is 10
4. Test if invalidBallotsText_ contains 100 invalid ballots

Outputs:

Pass message or an error message indicating which test failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Refactor processFiles() Function*
Unique Testing Number: **UT_votingapp_refactor_processFiles_02**

Team Member(s) Responsible:

Yifan Zhang (zhan4372)

Inputs:

The type of election

Setup:
The input is “STV”
The input ballot file is set to be test2_invalid_1.csv where it contains 8 invalid ballots, 12 valid ballots, and 10 candidates

Tests:

1. Test if there is only one input ballot file
2. Test if the length of the ballots_ vector which contains all valid ballots is 12
3. Test if the length of the candidates_ vector which contains all candidates is 10
4. Test if invalidBallotsText_ contains 8 invalid ballots

Outputs:

Pass message or an error message indicating which test failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Refactor processFiles() Function*
Unique Testing Number: **UT_votingapp_refactor_processFiles_03**

Team Member(s) Responsible:

Yifan Zhang (zhan4372)

Inputs:

The type of election

Setup:
The input is “STV”
The input ballot file is set to be test3_invalid_1.csv where it contains 565 invalid ballots, 434 valid ballots, and 9 candidates

Tests:

1. Test if there is only one input ballot file
2. Test if the length of the ballots_ vector which contains all valid ballots is 434
3. Test if the length of the candidates_ vector which contains all candidates is 9
4. Test if invalidBallotsText_ contains 565 invalid ballots

Outputs:

Pass message or an error message indicating which test failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Refactor processFiles() Function*
Unique Testing Number: **UT_votingapp_refactor_processFiles_04**

Team Member(s) Responsible:

Yifan Zhang (zhan4372)

Inputs:

The type of election

Setup:
The input is “STV”
The input ballot file is set to be test4_invalid_1.csv where it contains 850 invalid ballots, 1150 valid ballots, and 8 candidates

Tests:

1. Test if there are 2 input ballot files.
2. Test if the length of the ballots_ vector which contains all valid ballots is 850
3. Test if the length of the candidates_ vector which contains all candidates is 8
4. Test if invalidBallotsText_ contains 1150 invalid ballots

Outputs:

Pass message or an error message indicating which test failed

Passed

20 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Test ballot invalidation function*
Unique Testing Number: **UT_votingapp_ballotvalid_01**

Team Member(s) Responsible:

Sara Nelson (nels8907)

Inputs:

The string of votes from one ballot.

Setup:
The input ballot string is set to “1,2,3,4”
Candidates_ member variable is manually set to have four candidates of “John,Adam,Suzie,Susan”
Call checkBallotValidity() with the input ballot string.

Tests:

1. Assert that the return value is true, more than half the candidates are ranked

Outputs:

Pass message or an error message indicating which test failed

Passed

22 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Test ballot invalidation function*
Unique Testing Number: **UT_votingapp_ballotvalid_02**

Team Member(s) Responsible:

Sara Nelson (nels8907)

Inputs:

The string of votes from one ballot.

Setup:
The input ballot string is set to “1,,2”
Candidates_ member variable is manually set to have four candidates of “John,Adam,Suzie”
Call checkBallotValidity() with the input ballot string.

Tests:

1. Assert that the return value is true, more than half the candidates are ranked

Outputs:

Pass message or an error message indicating which test failed

Passed

22 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Test ballot invalidation function*
Unique Testing Number: **UT_votingapp_ballotvalid_03**

Team Member(s) Responsible:

Sara Nelson (nels8907)

Inputs:

The string of votes from one ballot.

Setup:
The input ballot string is set to “1,,,”
Candidates_ member variable is manually set to have four candidates of “John,Adam,Suzie,Susan”
Call checkBallotValidity() with the input ballot string.

Tests:

1. Assert that the return value is false, more than half the candidates are not ranked

Outputs:

Pass message or an error message indicating which test failed

Passed

22 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Invalidate Ballots with less than half of the Candidates ranked*
Task Description: *Test ballot invalidation function*
Unique Testing Number: **UT_votingapp_ballotvalid_04**

Team Member(s) Responsible:

Sara Nelson (nels8907)

Inputs:

The string of votes from one ballot.

Setup:
The input ballot string is set to “1,,,”
Candidates_ member variable is manually set to have four candidates of “John,Adam,Suzie”
Call checkBallotValidity() with the input ballot string.

Tests:

1. Assert that the return value is false, more than half the candidates are ranked

Outputs:

Pass message or an error message indicating which test failed

Passed

22 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_01**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 2
2. Election type: Plurality
3. Ballot Files: test_plurality_1_1.csv
4. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly
2. Test if the user can only choose .csv files
3. Test if the file selected is added into the ballot file list

Outputs:

1. The directory structure shows up when selecting the file
2. The files that are not csv files can't be selected
3. The test_plurality_1_1.csv file is added into the file list

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_02**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 2
2. Election type: STV
3. Ballot Files: test_STV_1_ballot_1.csv
4. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly
2. Test if the user can only choose .csv files
3. Test if the file selected is added into the ballot file list

Outputs:

1. The directory structure shows up when selecting the file
2. The files that are not csv files can't be selected
3. The test_STV_1_ballot_1.csv file is added into the file list

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_03**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 2
2. Election type: STV
3. Ballot Files: test_STV_100000_1.csv, test_STV_100000_2.csv, test_STV_100000_3.csv, test_STV_100000_4.csv, test_STV_100000_5.csv
4. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly
2. Test if the user can only choose .csv files
3. Test if the all the files selected are added into the ballot file list

Outputs:

1. The directory structure shows up when selecting the file
2. The files that are not csv files can't be selected
3. The test_STV_100000_1.csv, test_STV_100000_2.csv, test_STV_100000_3.csv, test_STV_100000_4.csv, test_STV_100000_5.csv file are added into the file list

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_04**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV
3. Ballot Files: test_STV_100000_1.csv
4. Add more ballot files: y
5. Ballot Files: test_STV_100000_2.csv
6. Add more ballot files: y
7. Ballot Files: test_STV_100000_3.csv
8. Add more ballot files: y
9. Ballot Files: test_STV_100000_4.csv
10. Add more ballot files: y
11. Ballot Files: test_STV_100000_5.csv
12. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly

2. Test if the user can only choose .csv files
3. Test if the all the files selected separately are added into the ballot file list

Outputs:

1. The directory structure shows up when selecting the file
2. The files that are not csv files can't be selected
3. The test_STV_100000_1.csv, test_STV_100000_2.csv, test_STV_100000_3.csv, test_STV_100000_4.csv, test_STV_100000_5.csv file are added into the file list

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_05**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Number of seats: 3
2. Election type: STV
3. Ballot Files: test_STV_100000_1.csv
4. Add more ballot files: y
5. Ballot Files: test_STV_100000_1.csv
6. Add more ballot files: y
7. Ballot Files: test_STV_100000_1.csv
8. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly
2. Test if the user can only choose .csv files
3. Test if the duplicate files are handled properly

Outputs:

1. The directory structure shows up when selecting the file

2. The files that are not csv files can't be selected
3. There is only one STV_100000_1.csv file in the ballot file list

Passed

27 April 2020

The PBI, the Task Description (from Sprint Log) with Unique Testing Number:

PBI: *Select Ballot Files from a Directory Structure*
Task Description: *Test Refactored Code in askForFile() Function (GUI)*
Unique Testing Number: **UT_votingapp_refactor_askForFile_06**

Team Member(s) Responsible:

Yiwen Xu (xu000515)

Inputs:

1. Test mode: on
2. Number of seats: 3
3. Election type: STV
4. Ballot Files: test_STV_100000_1.csv
5. Add more ballot files: y
6. Ballot Files: test_STV_100000_1.csv
7. Add more ballot files: y
8. Ballot Files: test_STV_100000_1.csv
9. Add more ballot files: n

Tests:

1. Test if the directory structure shows up properly
2. Test if the user can only choose .csv files
3. Test if the duplicate files are handled properly

Outputs:

1. The directory structure shows up when selecting the file
2. The files that are not csv files can't be selected
3. There is only one STV_100000_1.csv file in the ballot file list

Passed

27 April 2020