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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120519\_task3  CPL Speed |
| Team Member(s) Responsible: | Ruoyan Kong |
| Inputs: | 1. A Sample CPL file with 500000 Ballots in ./testing/cplBallot\_500000.csv |
| Tests: | 1. Tests getWinner generate the correct results  2. Test the process of reading and counting finished in 5 minutes |
| Outputs: | Type of Voting: close  Number of seats is 7  Number of parties is 4  Number of Candidates is 16  Number of current ballot cast is 500000  Current Winner is G  Number of votes each candidate receives:  Smith : 160000  Smith : 160000  Perez : 40000  Mallory : 120000  Jones : 120000  Jones : 160000  Foster : 120000  Pike : 120000  Wong : 180000  Lewis : 160000  Keller : 180000  Li : 160000  Floyd : 120000  Borg : 180000  Deutsch : 180000  Walters : 180000  Number of votes each party receives:  R : 180000  D : 120000  G : 160000  I : 40000  Number of seats each party receives:  R : 2  G : 2  D : 2  I : 1  Read file finished in 0.231 seconds. |
| Passed or Failed | Pass |
| Date | 2019-12-04 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120519\_task3  OPL Speed |
| Team Member(s) Responsible: | Ruoyan Kong |
| Inputs: | 1. A Sample OPL file with 500000 Ballots in ./testing/oplBallot\_500000.csv |
| Tests: | 1. Tests getWinner generate the correct results  2. Test the process of reading and counting finished in 5 minutes |
| Outputs: | Type of Voting: open  Number of seats is 3  Number of parties is 3  Number of Candidates is 6  Number of current ballot cast is 500000  Current Winner is D  Number of votes each candidate receives:  Jones : 50000  Foster : 150000  Smith : 50000  Pike : 150000  Borg : 100000  Deutsch : 0  Number of votes each party receives:  R : 150000  D : 300000  I : 50000  Number of seats each party receives:  D : 2  R : 1  I : 0  Read file finished in 0.57 seconds. |
| Passed or Failed | Pass |
| Date | 2019-12-04 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120319\_task2  Choose Ballot GUI |
| Team Member(s) Responsible: | Jingfan Guo |
| Inputs: | 1. Select a ballot file (./testing/sampleBallot1.csv) |
| Tests: | 1. Test if the system can identify the path of the selected ballot file  2. Test if the system can proceed to setup the election |
| Outputs: | You choose ./testing/sampleBallot1.csv  Successfully setup.  Begin running election. |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120319\_task2  Save Audit GUI |
| Team Member(s) Responsible: | Jingfan Guo |
| Inputs: | 1. Select a folder and specify the filename to save the audit file (./testing/audit.txt) |
| Tests: | 1. Test if the system can identify the selected path  2. Test if the system can proceed to save the audit file |
| Outputs: | Audit has been saved to ./testing/audit.txt |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120919\_SystemTest  OPL SystemTest |
| Team Member(s) Responsible: | Ruoyan Kong |
| Inputs: | 1. A Sample OPL file with 9 Ballots in ./testing/sampleBallot1.csv |
| Tests: | 1. Tests voting setup correctly  2. Tests getWinner generate the correct results  2. Test runElection generate correct auditContent |
| Outputs: | System Test OPL -setup-run-generateauditfile-getwinner.  test setup.  test generate audit file.  Read file finished in 0.0 seconds.  test generate winner.  The winner is D |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120919\_SystemTest  CPL SystemTest |
| Team Member(s) Responsible: | Ruoyan Kong |
| Inputs: | 1. A Sample CPL file with 26 Ballots in ./testing/sampleBallot2.csv |
| Tests: | 1. Tests voting setup correctly  2. Tests getWinner generate the correct results  2. Test runElection generate correct auditContent |
| Outputs: | System Test CPL -setup-run-generateauditfile-getwinner.  test setup.  test generate audit file.  Read file finished in 0.0 seconds.  test generate winner.  The winner is R |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120319\_task2  Generate Audit file CPL |
| Team Member(s) Responsible: | Yuan Yao |
| Inputs: | 1. Select a folder and specify the filename to save the audit file (./testing/audit.txt) 2. A Sample CPL file with 26 Ballots in ./testing/sampleBallot2.csv |
| Tests: | 1. Test if the system can proceed to save the audit file 2. Test if the saved audit file can is consistent with the ballots |
| Outputs: | Audit has been saved to ./testing/audit.txt  Party D got a vote.  Party D got a vote.  Party R got a vote.  Party R got a vote.  Party G got a vote.  Party I got a vote.  Party G got a vote.  Party D got a vote.  Party R got a vote.  Party G got a vote.  Party G got a vote.  Party R got a vote.  Party R got a vote.  Party D got a vote.  Party D got a vote.  Party R got a vote.  Party R got a vote.  Party G got a vote.  Party I got a vote.  Party G got a vote.  Party D got a vote.  Party R got a vote.  Party G got a vote.  Party G got a vote.  Party R got a vote.  Party R got a vote. |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120319  Generate Audit file OPL |
| Team Member(s) Responsible: | Yuan Yao |
| Inputs: | 1. Select a folder and specify the filename to save the audit file (./testing/audit.txt) 2. A Sample OPL file with 9 Ballots in ./testing/sampleBallot1.csv |
| Tests: | 1. Test if the system can proceed to save the audit file 2. Test if the saved audit file can is consistent with the ballots |
| Outputs: | Audit has been saved to ./testing/audit.txt  Candidate Pike got a vote.  Candidate Pike got a vote.  Candidate Foster got a vote.  Candidate Jones got a vote.  Candidate Smith got a vote.  Candidate Borg got a vote.  Candidate Borg got a vote.  Candidate Pike got a vote.  Candidate Foster got a vote. |
| Passed or Failed | Pass |
| Date | 2019-12-09 |

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| The PBI, the Task Description (from Sprint Log) with Unique Testing Number: | ProductBacklog120319  Print pertinent information about the election |
| Team Member(s) Responsible: | Yuan Yao |
| Inputs: | 1. A Sample OPL file with 9 Ballots in ./testing/sampleBallot1.csv |
| Tests: | 1. Test if the system can print the current information about the election |
| Outputs: | The winner is D  Number of seats is 3  Number of parties is 3  Number of candidates is 6  Number of current ballot cast is 18  Current winner is D  Number of votes each candidate receives:  Jones : 2  Foster : 4  Smith : 2  Pike : 6  Borg : 4  Deutsch : 0  Number of votes each party receives:  R : 6  D : 10  I : 2  Number of seats each party receives:  D : 2  R : 1  I : 0 |
| Passed or Failed | Pass |
| Date | 2019-12-09 |