System Test Logs

Project Name: Project 1: Voting System					Team07
Test S	tage: Unit: System		Test Date: Mar 22, 2024		
Test Case ID#: S_0001			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		
	escription: n the program & inspect manually	,			
Automated: yes no \[File: Methods:	/src/main.cpp System test on C	CPL Election	
Result	s: Pass Fail	_			
Preconditions for Test: File must be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make run"				User is prompted to enter file
2	Enter file name	/testing/test_cpl.csv			
3	Program checks that file exists, counts votes, allocates seats, handles ties between parties for the seats, and chooses the winning candidates.				For an tie that occurs, information is printed on the terminal about the process and outcome.
4	Check that text is displayed to the terminal, and that the audit file is created.				Terminal table should match the table in the audit file.
	ondition(s) for Test: s are printed to the terminal, and a	n audit file is generated			,

Project Name: Project 1: Voting System Team07						
Test S	tage: Unit: System		Test Date:	Mar 22, 2024		
Test Case ID#: S_0002		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		t007)		
Test Description: Run the program & inspect manually						
Auton	nated: yes no /	_	File:/src/main.cpp Methods: System test on CPL Class			
Result	s: Pass \slim Fail	_				
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make run FILE=/testing/test_cpl.csv"	/testing/test_cpl.csv			User gives filename as CMD line argument	
2	Program checks that file exists, counts votes, allocates seats, handles ties between parties for the seats, and chooses the winning candidates.				For any tie that occurs, information is printed on the terminal about the process and outcome.	
3	Check that text is displayed to the terminal, and that the audit file is created.				Terminal table should match the table in the audit file.	
	Post condition(s) for Test: Results are printed to the terminal, and an audit file is generated.					

Project Name: Project 1: Voting System Team07					Team07
Test S	tage: Unit: System		Test Date:	Mar 22, 2024	
Test Case ID#: S_0003		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)			
Test Description: Run the program & inspect manually					
Auton	nated: yes no /	_	File: Methods:	/src/main.cpp System test on C	PPL Class
Result	s: Pass ✓ Fail	_			
	nditions for Test: ust be formatted correctly.				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make run"				User is prompted to enter file
2	Enter file name	/testing/test_opl.csv			
3	Program checks that file exists, counts votes, allocates seats, handles ties between parties & candidates for the seats.				For any tie that occurs, information is printed on the terminal about the process and outcome.
4	Check that text is displayed to the terminal, and that the audit file is created.				Terminal table should match the table in the audit file.
	ondition(s) for Test: s are printed to the terminal, and a	n audit file is generated.			

Projec	Project Name: Project 1: Voting System Team07					
Test S	tage: Unit: System		Test Date:	Mar 22, 2024		
Test Case ID#: S_0004		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)				
Test Description: Run the program & inspect manually						
Automated: yes no			File:/src/main.cpp Methods: System test on OPL Class			
Result	s: Pass 🗸 Fail	_				
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make run FILE=/testing/test_opl.csv"	/testing/test_opl.csv			User gives filename as CMD line argument	
2	Program checks that file exists, counts votes, allocates seats, handles ties between parties & candidates for the seats.				For any tie that occurs, information is printed on the terminal about the process and outcome.	
3	Check that text is displayed to the terminal, and that the audit file is created.				Terminal table should match the table in the audit file.	
	ondition(s) for Test: s are printed to the terminal, and a	n audit file is generated.				

System Testing with Google Tests from now on, unless otherwise specified above the table

Projec	Project Name: Project 1: Voting System Team07							
Test Stage: Unit: System✓ Test Date: Mar 22, 2024								
Test C	fase ID#: S_0005		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)					
	Test Description: Run system test on OPL							
Automated: yes no 🗸			File:/testing/_opl.csv Methods: System test on OPL Election					
Result	ts: Pass Fail							
	nditions for Test: ust be formatted correctly.							
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes			
1	Run "make systemtest"	_opl.csv			Testing OPL no tie			
3	Checks if display results matches expected output		TRUE	TRUE				
Post condition(s) for Test: Test results are printed to the terminal, all tests pass								

Projec	Team07					
Test S	tage: Unit: System	·	Test Date:	Mar 22, 2024		
Test C	ase ID#: S_0006		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)			
	rescription: n system test on OPL (tie case)					
Automated: yes no 🗸		_	File: Methods:	/testing/_opl5.csv System test on OPL Election		
Result	s: Pass \(\) Fail					
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make systemtest"	_opl5.csv			Test checks if tie is handled successfully	
3	Checks if display results matches expected output		TRUE	TRUE		
Post condition(s) for Test: Test results are printed to the terminal, all tests pass						

Projec	Project Name: Project 1: Voting System Team07					
Test Stage: Unit: System ✓ Test Date: Mar 22, 2024						
Test C	ase ID#: S_0007		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)			
	rescription: n system test for CPL					
Automated: yes no 🗸		_	File:/testing/test_cpl.csv Methods: System test on CPL Election			
Result	s: Pass \(\) Fail					
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make systemtest"	test_cpl.csv			Testing CPL no tie	
3	Checks if display results matches expected output		TRUE	TRUE		
Post condition(s) for Test: Test results are printed to the terminal, all tests pass.						

Projec	Team07						
Test S	tage: Unit: System	m/	Test Date:	Mar 22, 2024			
Test C	Test Case ID#: S_0008 Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat00 Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)				
	escription: un system test for cpl tie case						
Automated: yes no ✓			File: Methods:	/testing/_cpl.csv System test on CPL Election			
Result	s: Pass \(Fail						
	nditions for Test: ust be formatted correctly.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make systemtest"	_opl.csv			Test checks if tie is handled successfully		
3	Checks if display results matches expected output		TRUE	TRUE			
	Post condition(s) for Test: Test results are printed to the terminal, all tests pass						

Unit Testing Below

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Unit Test Logs

Projec	Team07						
Test Stage: Unit:✓ System Test Date: Mar 22, 2024							
		g (hieng001) natkulova (mamat cescu (anice002)	007)				
	escription: st Candidate default constructor a	and getName() function					
Automated: yes no		File: Methods:	/src/Candidate.cpp Candidate() getName() getID()				
Result	s: Pass \(\) Fail						
Precon None	nditions for Test:						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Candidate object instantiated						
3	Checks that this Candidate's name is "No Name"		True	True			
4	Checks that this Candidate's IDis 0		True	True			
	Post condition(s) for Test: Candidate object initiated with no name.						

Projec	Team07						
Test S	tage: Unit: Syst	em	Test Date:	Mar 22, 2024			
Test Case ID#: U_002		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)			
Test Description: Test Candidate overridden constructor and getName() function							
Automated: yes no ✓			File: Methods:	/src/Candidate.getName()	срр		
Result	s: Pass 🗸 Fail						
	nditions for Test: ust be formatted correctly.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Candidate object instantiated with name and ID	"John Doe", 123					
3	Checks that this Candidate's name is "John Doe"		True	True			
4	Checks that this Candidate's IDis 123		True	True			
	Post condition(s) for Test: Candidate object initiated with a name.						

Projec	Team07						
Test S	tage: Unit: Syst	tem	Test Date:	Mar 22, 2024			
Test Case ID#: U_003 Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)			007)				
Test Description: Test Candidate overridden constructor and getName() function							
Autor	nated: yes no ✓ _		File: Methods:	/src/Candidate. getName()	срр		
Resul	ts: Pass 🗸 Fail						
	nditions for Test: ust be formatted correctly.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Candidate object instantiated with name and an ID	"Jane Smith", 123					
3	Checks that this Candidate's name is "Jane Smith"		True	True			
	Post condition(s) for Test: Candidate object initiated with a name and an ID.						

Projec	Team07						
Test S	tage: Unit: ✓ Syst	em	Test Date: 1	Mar 22, 2024			
Test Case ID#: U_004			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)				
Test Description: Test Candidate overridden constructor and getID() function							
Automated: yes no / File:/src/Candidate.cpp Methods: getID()					срр		
Result	s: Pass 🗸 Fail						
	nditions for Test: ust be formatted correctly.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Candidate object instantiated with name and an ID	"Jane Smith", 123					
3	Checks that this Candidate's ID is "123"		True	True			
	Post condition(s) for Test: Candidate object initiated with a name and an ID.						

Project Name: Project 1: Voting System				Team07			
Test S	tage: Unit: Syst	tem	Test Date:	Test Date: Mar 22, 2024			
Test C	Case ID#: U_005	Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		t007)			
Test Description: Test Default Constructor							
Automated: yes no ✓			File: Methods:	/src/Party.cpp Party Class Defa	ault Constructor		
Result	ts: Pass ✓ Fail						
	nditions for Test: in the correct directory						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Create Party object with no parameter						
3	3 Use method getName() and expect value "No Name"			True			
	Post condition(s) for Test: Result produced is expect to be the same as expected result						

Projec	et Name: Project 1: Voting Syst	tem			Team07
Test S	tage: Unit: ✓ Syst	em	Test Date:	Mar 22, 2024	
Test C	'ase ID#: U_006	Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)	
Test Description: Test Constructor					
Automated: yes no 🗸			File: Methods:	/src/Party.cpp Party Class Cons	structor with Parameter
Result	s: Pass \(\) Fail				
	in the correct directory				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Create Party object with a parameter name	"Democrat Party"			
3 Use method getName() and expect with value of parameter True				True	
	ondition(s) for Test: produced is expect to be the same	e as expected result			

Project Name: Project 1: Voting System					Team07	
Test S	tage: Unit: ✓ Syst	em	Test Date:	Mar 22, 2024		
Test C	Case ID#: U_007		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		t007)	
Test Description: Test Constructor						
Automated: yes no 🗸			File: Methods:	/src/Party.cpp Party Class Con	structor with Parameter	
Result	ts: Pass 🗸 Fail					
	nditions for Test: in the correct directory					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Create Party object with parameter	"Republican Party"				
3	3 Use method getName() and expect with value of parameter			True		
	Post condition(s) for Test: Result produced is expect to be the same as expected result					

Projec	et Name: Project 1: Voting Syst	tem			Team07
Test S	tage: Unit:/ Syst	em	Test Date:	Mar 22, 2024	
Test Case ID#: U_008		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)	
Test Description: Test Multiple Parties Automated: yes no File:/src/Party.cpp					
Auton	nated. yes nov				structor with Parameter
Result	ts: Pass	_			
	nditions for Test: in the correct directory				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Create Parties object with parameter (have the same names)	"Republican Party" "Republican Party"			
3	Use method getName() and expect with value of parameter for both object (string) are equal		True	True	
	ondition(s) for Test: produced is expect to be the same	e as expected result			

Projec	et Name: Project 1: Voting Sys	tem			Team07
Test S	Test Stage: Unit: ✓ System Test Date: Mar 22, 2024				
Test C	Case ID#: U_009	Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		t007)	
Те	Description: st Multiple Parties nated: yes no ✓ _		File:/src/Party.cpp		
	= = = = =	_	Methods:	Party Class Con	structor with Parameter
Resul	ts: Pass 🗸 Fail				
	nditions for Test: in the correct directory				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Create Parties object with parameter (have different names)	"Republican Party" "Democratic Party"			
3	Use method getName() and expect with value of parameter for both object (string) are equal		False	Flase	
	ondition(s) for Test: produced is expect to be the sam	e as expected result			

Tie Breaker Class Testing

Projec	Team07					
Test S	tage: Unit:/ Syst	em	Test Date: 1	Mar 22, 2024		
Test Case ID#: U_010		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)		
Test Description: This test verifies the default constructor of the TieBreaker class.						
Automated: yes no 🗸			File:/src/TieBreaker.cpp Methods: TieBreaker() (Default Constructor)			
Result	s: Pass \(\) Fail					
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Create an instance using default constructor					
Returned value should be empty			True	True		
Post condition(s) for Test: TieBreaker object is successfully created						

Tie Breaker Class Testing

Projec	Project Name: Project 1: Voting System					
Test S	tage: Unit:/ Syst	em	Test Date: N	Mar 22, 2024		
Test Case ID#: U_011			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)	
Test Description: This test case verifies the breakTies method of the tiebreaker class when there's only one candidate and seat available						
Automated: yes no			File: Methods:	/src/TieBreaker.cpp TieBreaker() breakTies(numPeople, numPeople)		
Result	ts: Pass \(\) Fail					
	nditions for Test: ust be formatted correctly.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Calls breakTies method with arguments '1' candidate and '1' seat	1, 1				
3 Check if the tieBreakerResult is 0 0						
	ondition(s) for Test: eBreakerResult attribute is 0					

Tie Breaker Class Testing

Project Name: Project 1: Voting System					
Test S	tage: Unit: ✓ Syst	em	Test Date: N	Mar 22, 2024	
Test Case ID#: U_012		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)	
Test Description: This test case verifies the BreakTies method of TieBreaker class when there are multiple candidates and seats available					
Automated: yes no ✓			File: Methods:	/src/TieBreaker.cpp TieBreaker() breakTies(numSeats, numPeople)	
Result	ts: Pass Fail				
	nditions for Test: ust be formatted correctly.				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Calls breakTies method on '5' candidates and '2' seats	5, 2			
3	Checks if tieBreakerResult is not Empty		Not Empty	Filled	A string is returned, but the winners are randomly selected
Post condition(s) for Test: The tieBreakerResult is populated with the indices of the winning candidate. It should not be empty					

Result Class Testing

Project Name: Project 1: Voting System Team07						
Test S	tage: Unit: ✓ Syst	em	Test Date: 1	Mar 22, 2024		
Test Case ID#: U_013		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)		
Test Description: This test verifies the setters of the class work with dummy data						
Automated: yes no		File:/src/Results.cpp Methods: setDisplayInfo(string) setAuditInfo(string) getDisplayInfo() getAuditInfo()		tring) ng)		
Result	s: Pass 🗸 Fail					
	nditions for Test: s class object should be instantiate	ed.				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Create an instance using default constructor					
3	Pass random string into the setters	Random chars				
4	Get the random string from the Results class					
5	Compare the passed string to returned string		True	True		
Post co	ondition(s) for Test:					

Result Class Testing

Project Name: Project 1: Voting System Team07						
Test S	tage: Unit: ✓ Syst	em	Test Date: 1	Mar 22, 2024		
Chork Hi Ziyoda M Andrei A		Chork Hien Ziyoda Man Andrei Anio	Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)			
Test Description: This test verifies the setters of the class work with empty data						
Automated: yes no /		File:/src/Results.cpp Methods: setDisplayInfo(string) setAuditInfo(string) getDisplayInfo() getAuditInfo()		tring) ng)		
Result	s: Pass 🗸 Fail					
	nditions for Test: s class object should be instantiate	ed.				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Create an instance using default constructor					
3	Pass random string into the setters	Empty string				
4	Get the random string from the Results class					
5	Compare the passed string to returned string		True	True		
Post co	ondition(s) for Test:					

Project Name: Project 1: Voting System Te					Team07
Test S	Test Stage: Unit: ✓ System Test Date: Mar 22, 2024				
Test C	'ase ID#: U_015	Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		2007)	
Test C when i	PEScription: PLSystem constructor and display no file is given				
Automated: yes no			File: Methods:	/src/CPLSyster CPLSystem(), d	
Result	s: Pass 🗸 Fail				
Precon None	nditions for Test:				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Create CPLSystem object with default constructor	0 Seats & 0 Votes	Empty Table	Empty Table	
3	Call displayResults() method and check the output				
4					
5					
	ondition(s) for Test: system object is successfully created	ed with default values			

Project Name: Project 1: Voting System					Team07
Test S	tage: Unit: ✓ Syst	em	Test Date: Mar 22, 2024		
– Ch Zi Ar		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)	
Test D	escription:				
Automated: yes no / File:/testing/CPLSystem.cpp Methods: CPLSystem(), auditResults()		rstem.cpp			
Resul	ts: Pass				
Preco None	nditions for Test:				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes
1	Run "make unittest"				
2	Create CPLSystem object with default constructor	0 Parties & 0 Seats	Empty Table	Empty Table	
3	Call auditResults() method and check the output. There were 0 parties				
4					
5					
	ondition(s) for Test: ystem object is successfully created	d with default values			

Projec	Project Name: Project 1: Voting System Team07						
Test Stage: Unit: ✓ System			Test Date: Mar 22, 2024				
Test Case ID#: U_017		Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)					
Test Description: This test verifies the setters of the class work with empty data							
Auton	Automated: yes no \(/testing/CPLSystem.cpp CPLSystem(), countVotes(), allocateSeats(), displayResults(), auditResults(),			
Result	ts: Pass ✓ Fail						
	nditions for Test: PLSystem class with an empty fil	le.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"	0 Seats					
2	Check that program reads file and initializes CPLSystem Object	0 Votes					
3	Call countVotes() and allocateSeats() methods						
4	Call displayResults() and auditResults() methods and		Empty Table	Empty Table			
5	Check outputs		Empty Table	Empty Table			
	ondition(s) for Test: s are printed to terminal and audi	t file is generated					

Project Name: Project 1: Voting System Team07								
Test S	tage: Unit: ✓ Syst	em	Test Date: Mar 22, 2024					
Test Case ID#: U_018			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)		007)			
	Test Description: This test verifies the setters of the class work with empty data							
Automated: yes no \(\sqrt{-}			File: Methods:	/src/Results.cpp setDisplayInfo(string) setAuditInfo(string) getDisplayInfo() getAuditInfo()				
Result	s: Pass \(\) Fail							
	nditions for Test: s class object should be instantiate	ed.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes			
1	Run "make unittest"							
2	Create an instance using default constructor							
3	Pass random string into the setters	Empty string						
4	Get the random string from the Results class							
5	Compare the passed string to returned string		True	True				
Post condition(s) for Test: None								

Project Name: Project 1: Voting System Team07							
Test S	tage: Unit: ✓ Syst	em	Test Date: Mar 22, 2024				
Test Case ID#: U_019			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)				
Test Description: This test checks that an OPL object has a basic terminal output, and the values it has access to are equal to 0.							
Automated: yes no \(\sqrt{-} \) File: Meth				/src/OPLSystem.cpp displayResults() getSeats() getVotes() getCandidates() getParties()			
Result	s: Pass \(Fail						
	nditions for Test: vstem object should be instantiate	d.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Make a default string & table that would be displayed to the terminal if there was no election data	None					
3	Check that the string and display results match.		TRUE	TRUE			
4	Check that the values OPL has access to are 0		TRUE	TRUE			
Post condition(s) for Test: None							

Project Name: Project 1: Voting System Team07								
Test S	tage: Unit: ✓ Syst	em	Test Date: 1	Mar 22, 2024				
Test Case ID#: U_020			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)					
Th	Test Description: This test checks that an OPL object has a basic audit file output, and the values it has access to are equal to 0.							
Auton	nated: yes no✓ _	_	File: Methods:	3 11				
Result	s: Pass \(\) Fail							
	nditions for Test: ystem object should be instantiate	d.						
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes			
1	Run "make unittest"							
2	Make a default string & table that would be written to the audit file if there was no election data	None						
3	Check that the string and audit content match.		TRUE	TRUE				
4	Check that the values OPL has access to are 0		TRUE	TRUE				
Post co	Post condition(s) for Test:							

Projec	et Name: Project 1: Voting Sys	tem			reamu/	
Test Stage: Unit: ✓ System			Test Date: Mar 22, 2024			
Test C	Case ID#: U_021		Ziyoda Maı Andrei Ani	Testers: ag (hieng001) matkulova (mamat cescu (anice002) Ali (ali00429)	007)	
Th empty	Description: is test checks that the OPL syster tables for the terminal and the au ange any of the variables that it h	dit file. It should also				
Auton	nated: yes no ✓ _		File: Methods:	/src/OPLSystem OPLSystem(file displayResults() auditResults() getSeats() getVotes() getCandidates() getParties()	name)	
Result	ts: Pass \(\) Fail					
	nditions for Test: ystem object should be instantiate	ed.				
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes	
1	Run "make unittest"					
2	Create an OPL class instance, and give it this file to read.	/testing/_opl0.csv			This file has only 0 values, no parties/candidates, and no votes.	
3	Make a default string & table that would be displayed to the terminal if there was no election data					
4	Make a default string & table that would be written to the					

	audit file if there was no election data				
5	Check that the strings mentioned above match the terminal output and audit file strings produced.		TRUE	TRUE	
6	Check that the values OPL has access to are 0		TRUE	TRUE	
Post condition(s) for Test: None					

Projec	Project Name: Project 1: Voting System Team07						
Test S	tage: Unit: ✓ Syst	cem	Test Date:	Mar 22, 2024			
Test Case ID#: U_022			Name(s) of Testers: Chork Hieng (hieng001) Ziyoda Mamatkulova (mamat007) Andrei Anicescu (anice002) Mohamed Ali (ali00429)				
Th empty	escription: is test checks that the OPL syster tables for the terminal and the au ange any of the variables that it h	dit file. It should also					
Auton	nated: yes no ✓ _		File: Methods:	/src/OPLSysten OPLSystem(file displayResults() auditResults() getSeats() getVotes() getCandidates() getParties()	name)		
Result	ts: Pass ✓ Fail						
	nditions for Test: ystem object should be instantiate	ed.					
Step #	Test Step Description	Test Data	Expected Result	Actual Result	Notes		
1	Run "make unittest"						
2	Create an OPL class instance, and give it this file to read.	/testing/_opl.csv			This file has only 0 values, no parties/candidates, and no votes.		
3	Make a string & table that would be displayed to the terminal after this file is processed						
4	Make a default string & table that would be written to the						

	audit file after this file is processed					
5	Check that the strings mentioned above match the terminal output and audit file strings produced.		TRUE	TRUE		
6	Check that the values OPL has access to are 0		TRUE	TRUE		
Post condition(s) for Test: None						