System Test Plan

Instructions. In this section, you must provide your system test plan with at least 5 test cases. If you want to provide more than 5 test cases, add an appendix at the end of this document with the 6th, 7th, etc. test cases so that page numbers for all sections match the required template! Only the first 5 test cases will be graded.

Make sure:

- You provide your sample test data
- Test IDs are uniquely identified and descriptive
- Test descriptions are fully specified with complete inputs, specific values, and preconditions
 - Be sure to provide <u>SPECIFIC</u> INPUTs and VALUEs so that your test cases are repeatable
- Expected results are fully specified with specific output values
- All tests cover scenarios based on the problem statement
- All tests cover unique scenarios for the system
- All strategies for system testing are demonstrated in the tests (testing equivalence classes, testing boundary values, testing exceptions/unexpected inputs)

Test Data:

We will use three test file for our System Test Plan: people.csv and calls.csv, and empty emptyCalls.csv

People.csv

PHONE_NUMBER, FIRST_NAME, LAST_NAME

134-530-7421728, Roseanna, Herman

853-257-0109509, Sarai, Rodriguez

358-721-0140950, Tereasa, Kuphal

663-879-6377778, Rudolph, Buckridge

541-777-4740981, Brett, Mueller

289-378-3996038, Daniel, Walker

903-282-4112077, Tomas, Nguyen

881-633-0099232, Enoch, Quitzon

442-000-9865092, Albertina, Braun

Calls.csv

CALL_ID, TIMESTAMP, CALL_LENGTH, PHONE_NUMBERS

EHEI9930, Wed Apr 22 14:56:45 EDT 2020, 29, 358-721-0140950 | 663-879-6377778

IIIL0182, Mon Sep 29 14:03:37 EDT 2014, 82, 358-721-0140950 | 541-777-4740981

RIFU0090, Sun May 14 10:52:47 EDT 2017, 24, 663-879-6377778 | 541-777-4740981 | VFTD2516, Mon Sep 02 10:11:43 EDT 2019, 39, 541-777-4740981 | 134-530-7421728 | JAID5291, Mon Sep 09 11:10:34 EDT 2019, 22, 289-378-3996038 | 134-530-7421728 | APAF2182, Mon Sep 22 14:03:37 EDT 2014, 2, 289-378-3996038 | 881-633-0099232 | NANS7122, Wed Apr 29 19:26:35 EDT 2020, 5, 442-000-9865092 | 663-879-6377778 | 903-282-4112077

emptyCalls.csv

CALL_ID, TIMESTAMP, CALL_LENGTH, PHONE_NUMBERS

To start the program, run surveillanceManagerUI.java

Test ID	Description	Expected Results	Actual Results
Test #1 testID: testLoadPeo ple Strategy: Equivalence Class - loading people from file	 surveillanceManagerUl.j ava has been loaded successfully input/people.txt exist input/calls.txt Steps: See "Type anything to continue, type stop to end application" Type anything See "People file?" Type "input/people.csv See "Call file?" Type "input/calls.csv" See "See people? [y/n]" Type "y" Check output Type "stop" 	The people list loads to display the nine people in sorted order by their phone numbers 134-530-7421728 (Roseanna Herman) 289-378-3996038 (Daniel Walker) 358-721-0140950 (Tereasa Kuphal) 442-000-9865092 (Albertina Braun) 541-777-4740981 (Brett Mueller) 663-879-6377778 (Rudolph Buckridge) 853-257-0109509 (Sarai Rodriguez) 881-633-0099232 (Enoch Quitzon) 903-282-4112077 (Tomas Nguyen)	134-530-7421728 (Roseanna Herman) 289-378-3996038 (Daniel Walker) 358-721-0140950 (Tereasa Kuphal) 442-000-9865092 (Albertina Braun) 541-777-4740981 (Brett Mueller) 663-879-6377778 (Rudolph Buckridge) 853-257-0109509 (Sarai Rodriguez) 881-633-0099232 (Enoch Quitzon) 903-282-4112077 (Tomas Nguyen)

Test #2 testID: testLoadWar	Preconditions: • surveillanceManagerUI.j ava has been loaded successfully • people.txt • call.txt exists	Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [1-hop: 663-879-6377778 (Rudolph Buckridge)	Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [1-hop: 663-879-6377778 (Rudolph Buckridge) 1-hop: 541-777-4740981 (Brett Mueller) 2-hop: 442-000-9865092 (Albertina Braun)
Strategy: Equivalence class - examining the results of getPeopleCo veredByWarr ant.java)	Steps: 1. See "Type anything to continue, type stop to end application" 2. Type anything 3. See "People file?" 4. Type "input/people.csv 5. See "Call file?" 6. Type "input/calls.csv" 7. See "See people? [y/n]" 8. Type "n" 9. See"Generate report? [y/n]" 10. Type "n"	1-hop: 541-777-4740981 (Brett Mueller) 2-hop: 442-000-9865092 (Albertina Braun) 2-hop: 134-530-7421728 (Roseanna Herman) 2-hop: 903-282-4112077 (Tomas Nguyen)	2-hop: 134-530-7421728 (Roseanna Herman) 2-hop: 903-282-4112077 (Tomas Nguyen) 3-hop: 289-378-3996038 (Daniel Walker) 4-hop: 881-633-0099232 (Enoch Quitzon)]

	11. See "Generate warrant? [y/n]" 12. Type "y" 13. See "hops" 14. Type "4" 15. See "number 16. Type "358-721-0140950" 17. Check result 18. Type "stop"	3-hop: 289-378-3996038 (Daniel Walker) 4-hop: 881-633-0099232 (Enoch Quitzon)]	
Test #3 testID: testGenerate Report	Preconditions: Test 1 has passed Steps: 1. See "Type anything to continue, type stop to end application"	The following report would be generated Calls involving 134-530-7421728 (Roseanna Herman) [9/2/2019 at 10:11:43 AM	Calls involving 134-530-7421728 (Roseanna Herman) [9/2/2019 at 10:11:43 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 9/9/2019 at 11:10:34 AM involving 1 other number(s): 289-378-3996038 (Daniel Walker)
Strategy: (Equivalence class -	2. Type anything 3. See "People file?" 4. Type "input/people.csv 5. See "Call file?"	involving 1 other number(s): 541-777-4740981 (Brett Mueller)] Calls involving 289-378-3996038 (Daniel Walker) [9/22/2014 at 14:03:37 PM involving 1 other number(s): 881-633-0099232 (Enoch Quitzon)

examining 6. Type "input/calls.csv" 9/9/2019 at 11:10:34 AM involving 1 9/9/2019 at 11:10:34 AM other number(s): the results of 7. See "See people? [y/n]" 134-530-7421728 (Roseanna generateRep 8. Type "n" involving 1 other number(s): Herman) ort.java) 9. See"Generate report? [y/n]" 289-378-3996038 (Daniel Calls involving 358-721-0140950 10. Type "y" Walker) (Tereasa Kuphal) [11. Check results 9/29/2014 at 14:03:37 PM involving 12. Type "stop 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving Calls involving 289-378-3996038 1 other number(s): (Daniel Walker) [663-879-6377778 (Rudolph Buckridge) 9/22/2014 at 14:03:37 PM Calls involving 442-000-9865092 involving 1 other number(s): (Albertina Braun) [4/29/2020 at 19:26:35 PM involving 881-633-0099232 (Enoch 2 other number(s): 663-879-6377778 (Rudolph Quitzon) Buckridge) 903-282-4112077 (Tomas Nguyen) 9/9/2019 at 11:10:34 AM involving 1 other number(s): Calls involving 541-777-4740981 (Brett Mueller) [134-530-7421728 (Roseanna 9/29/2014 at 14:03:37 PM involving 1 other number(s): Herman) 358-721-0140950 (Tereasa Kuphal) 5/14/2017 at 10:52:47 AM involving 1 other number(s): Continued in Appendix 663-879-6377778 (Rudolph Buckridge) 9/2/2019 at 10:11:43 AM involving 1

other number(s):

134-530-7421728 (Roseanna Herman) Calls involving 663-879-6377778 (Rudolph Buckridge) [5/14/2017 at 10:52:47 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguye Calls involving 853-257-0109509 (Sarai Rodriguez) [(none) Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s): 289-378-3996038 (Daniel Walke	T		
(Rudolph Buckridge) [5/14/2017 at 10:52:47 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguyee) Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			na
(Rudolph Buckridge) [5/14/2017 at 10:52:47 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguyee)] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):		1 '	
(Rudolph Buckridge) [5/14/2017 at 10:52:47 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguyee)] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):		Calls involving 663-879-63777	78
5/14/2017 at 10:52:47 AM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguyee] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			
1 other number(s):			/olvina
541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguye] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			
4/22/2020 at 14:56:45 PM involving 1 other number(s):			ıeller)
1 other number(s):			
358-721-0140950 (Tereasa Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguyer l] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none) l Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			Joiving
Kuphal) 4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguye) Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			
4/29/2020 at 19:26:35 PM involving 2 other number(s): 442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguye] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			I
2 other number(s):			olvina
442-000-9865092 (Albertina Braun) 903-282-4112077 (Tomas Nguye] Calls involving 853-257-0109509 (Sarai Rodriguez) [(none)] Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			roiving
Braun) 903-282-4112077 (Tomas Nguye Calls involving 853-257-0109509 (Sarai Rodriguez) [(none) Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			_
903-282-4112077 (Tomas Nguyer) Calls involving 853-257-0109509 (Sarai Rodriguez) [l ·	a
Calls involving 853-257-0109509 (Sarai Rodriguez) [lauvan)
(Sarai Rodriguez) [903-202-4112077 (1011ldS I	nguyen)
(Sarai Rodriguez) [Calle involving 952 257 04005	00
(none) Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			09
Calls involving 881-633-0099232 (Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			
(Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):		(none)	
(Enoch Quitzon) [9/22/2014 at 14:03:37 PM involving 1 other number(s):			.00
9/22/2014 at 14:03:37 PM involving 1 other number(s):			32
1 other number(s):			
			olving/
289-378-3996038 (Daniel Walke			
		289-378-3996038 (Daniel V	Valker)
Calls involving 903-282-4112077			17
(Tomas Nguyen) [
4/29/2020 at 19:26:35 PM involving			olving/
2 other number(s):		· · · · · · · · · · · · · · · · · · ·	
442-000-9865092 (Albertina		l ·	а
Braun)			
663-879-6377778 (Rudolph		· · ·	1
Buckridge)		Buckridge)	

]
Test #4	Preconditions: Test 1 has passed	The report would be generated explain how no calls exist	No calls exist in the call logs.
testid: testGenerate ReportWithIn validCalls Strategy: Exception/un expected input - trying to generate report without calls being loaded.	Steps: 1. See "Type anything to continue, type stop to end application" 2. Type anything 3. See "People file?" 4. Type "input/people.csv 5. See "Call file?" 6. Type "input/emptyCalls.csv" 7. See "See people? [y/n]" 8. Type "n" 9. See"Generate report? [y/n]" 10. Type "y" 11. Check results 12. Type "stop	No calls exist in the call logs.	

Test #5 testID: testLoadWar rantOutsideH ops Strategy: (Boundary value analysis -	Preconditions: • surveillanceManagerUI.j ava has been loaded successfully • people.txt • call.txt exists Steps: 1. See "Type anything to continue, type stop to end application" 2. Type anything 3. See "People file?" 4. Type "input/people.csv"	Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [1-hop: 663-879-6377778 (Rudolph Buckridge) 1-hop: 541-777-4740981 (Brett Mueller) 2-hop: 442-000-9865092 (Albertina Braun)	Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [1-hop: 663-879-6377778 (Rudolph Buckridge) 1-hop: 541-777-4740981 (Brett Mueller) 2-hop: 442-000-9865092 (Albertina Braun) 2-hop: 134-530-7421728 (Roseanna Herman) 2-hop: 903-282-4112077 (Tomas Nguyen) 3-hop: 289-378-3996038 (Daniel Walker) 4-hop: 881-633-0099232 (Enoch Quitzon)
examining the results of getPeopleCo veredByWarr	5. See "Call file?"6. Type "input/calls.csv"7. See "See people? [y/n]"8. Type "n"	2-hop: 134-530-7421728 (Roseanna Herman)	

ant.java with extreme hops)	 9. See"Generate report? [y/n]" 10. Type "n" 11. See "Generate warrant? [y/n]" 12. Type "y" 13. See "hops" 14. Type "100" 	2-hop: 903-282-4112077 (Tomas Nguyen) 3-hop: 289-378-3996038 (Daniel Walker)	
	15. See "number 16. Type "358-721-0140950" 17. Check result 18. Type "stop"	4-hop: 881-633-0099232 (Enoch Quitzon)	

		•	
Test #5	Preconditions: Test 1 and Test 2 passed	The system will provide a warrant with 2 hops for 358-721-0140950 (Teresa Kuphal)	
testib. testGetWarra		Phone numbers covered by a	
nt		2-hop warrant originating from	
	Steps:	358-721-0140950 (Tereasa	
	1. Click "Get Warrant"	Kuphal) [
Strategy:	2. Enter the phone		
on atogy.	number	1-hop: 663-879-6377778	
Functional	"358-721-0140950"	(Rudolph Buckridge)	
testing -	3. Enter the hops "2"		
Testing the	4. Click "Generate"	1-hop: 541-777-4740981	
getWarrant.j ava function	5. Check results	(Brett Mueller)	
		2-hop: 442-000-9865092	
		(Albertina Braun)	
		2-hop: 134-530-7421728	
		(Roseanna Herman)	
		2-hop: 903-282-4112077	
		(Tomas Nguyen)	
		1	
	I and the second	1	l .