

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 SPECIFIC 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: testLoadPeople Strategy: Equivalence Class - loading people from file	Preconditions: <ul style="list-style-type: none"> • surveillanceManagerUI.java has been loaded successfully • input/people.txt exist • input/calls.txt Steps: <ol style="list-style-type: none"> 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 "y" 9. Check output 10. Type "stop" 	<p>The people list loads to display the nine people in sorted order by their phone numbers</p> <p>134-530-7421728 (Roseanna Herman)</p> <p>289-378-3996038 (Daniel Walker)</p> <p>358-721-0140950 (Tereasa Kuphal)</p> <p>442-000-9865092 (Albertina Braun)</p> <p>541-777-4740981 (Brett Mueller)</p> <p>663-879-6377778 (Rudolph Buckridge)</p> <p>853-257-0109509 (Sarai Rodriguez)</p> <p>881-633-0099232 (Enoch Quitzon)</p> <p>903-282-4112077 (Tomas Nguyen)</p>	<p>134-530-7421728 (Roseanna Herman)</p> <p>289-378-3996038 (Daniel Walker)</p> <p>358-721-0140950 (Tereasa Kuphal)</p> <p>442-000-9865092 (Albertina Braun)</p> <p>541-777-4740981 (Brett Mueller)</p> <p>663-879-6377778 (Rudolph Buckridge)</p> <p>853-257-0109509 (Sarai Rodriguez)</p> <p>881-633-0099232 (Enoch Quitzon)</p> <p>903-282-4112077 (Tomas Nguyen)</p>

<p>Test #2</p> <p>testID:</p> <p>testLoadWarrant</p> <p>Strategy:</p> <p>Equivalence class - examining the results of getPeopleCoveredByWarrant.java)</p>	<p>Preconditions:</p> <ul style="list-style-type: none"> • surveillanceManagerUI.java has been loaded successfully • people.txt • call.txt exists <p>Steps:</p> <ol style="list-style-type: none"> 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" 	<p>Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [</p> <p>1-hop: 663-879-6377778 (Rudolph Buckridge)</p> <p>1-hop: 541-777-4740981 (Brett Mueller)</p> <p>2-hop: 442-000-9865092 (Albertina Braun)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p>	<p>Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [</p> <p>1-hop: 663-879-6377778 (Rudolph Buckridge)</p> <p>1-hop: 541-777-4740981 (Brett Mueller)</p> <p>2-hop: 442-000-9865092 (Albertina Braun)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p> <p>3-hop: 289-378-3996038 (Daniel Walker)</p> <p>4-hop: 881-633-0099232 (Enoch Quitzon)</p> <p>]</p>

	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 Strategy: (Equivalence class -	Preconditions: Test 1 has passed Steps: <ol style="list-style-type: none"> 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?” 	The following report would be generated 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)] 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)	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)] 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)

<p>examining the results of generateReport.java)</p>	<p>6. Type “input/calls.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”</p>	<pre> 9/9/2019 at 11:10:34 AM involving 1 other number(s): 289-378-3996038 (Daniel Walker)] 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) 9/9/2019 at 11:10:34 AM involving 1 other number(s): 134-530-7421728 (Roseanna Herman)] Continued in Appendix </pre>	<pre> 9/9/2019 at 11:10:34 AM involving 1 other number(s): 134-530-7421728 (Roseanna Herman)] Calls involving 358-721-0140950 (Tereasa Kuphal) [9/29/2014 at 14:03:37 PM involving 1 other number(s): 541-777-4740981 (Brett Mueller) 4/22/2020 at 14:56:45 PM involving 1 other number(s): 663-879-6377778 (Rudolph Buckridge)] Calls involving 442-000-9865092 (Albertina Braun) [4/29/2020 at 19:26:35 PM involving 2 other number(s): 663-879-6377778 (Rudolph Buckridge) 903-282-4112077 (Tomas Nguyen)] Calls involving 541-777-4740981 (Brett Mueller) [9/29/2014 at 14:03:37 PM involving 1 other number(s): 358-721-0140950 (Tereasa Kuphal) 5/14/2017 at 10:52:47 AM involving 1 other number(s): 663-879-6377778 (Rudolph Buckridge) 9/2/2019 at 10:11:43 AM involving 1 other number(s): </pre>
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			<p>134-530-7421728 (Roseanna Herman)</p> <p>]</p> <p>Calls involving 663-879-6377778 (Rudolph Buckridge) [</p> <p>5/14/2017 at 10:52:47 AM involving 1 other number(s):</p> <p>541-777-4740981 (Brett Mueller)</p> <p>4/22/2020 at 14:56:45 PM involving 1 other number(s):</p> <p>358-721-0140950 (Tereasa Kuphal)</p> <p>4/29/2020 at 19:26:35 PM involving 2 other number(s):</p> <p>442-000-9865092 (Albertina Braun)</p> <p>903-282-4112077 (Tomas Nguyen)</p> <p>]</p> <p>Calls involving 853-257-0109509 (Sarai Rodriguez) [</p> <p>(none)</p> <p>]</p> <p>Calls involving 881-633-0099232 (Enoch Quitzon) [</p> <p>9/22/2014 at 14:03:37 PM involving 1 other number(s):</p> <p>289-378-3996038 (Daniel Walker)</p> <p>]</p> <p>Calls involving 903-282-4112077 (Tomas Nguyen) [</p> <p>4/29/2020 at 19:26:35 PM involving 2 other number(s):</p> <p>442-000-9865092 (Albertina Braun)</p> <p>663-879-6377778 (Rudolph Buckridge)</p>
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Test #4 testID: testGenerateReportWithin validCalls Strategy: Exception/un expected input - trying to generate report without calls being loaded.	Preconditions: Test 1 has passed Steps: <ol style="list-style-type: none"> 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" 	The report would be generated explain how no calls exist No calls exist in the call logs.	No calls exist in the call logs.

<p>Test #5</p> <p>testID:</p> <p>testLoadWarrantOutsideHops</p> <p>Strategy:</p> <p>(Boundary value analysis - examining the results of getPeopleCoveredByWarr</p>	<p>Preconditions:</p> <ul style="list-style-type: none"> • surveillanceManagerUI.java has been loaded successfully • people.txt • call.txt exists <p>Steps:</p> <ol style="list-style-type: none"> 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” 	<p>Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [</p> <p>1-hop: 663-879-6377778 (Rudolph Buckridge)</p> <p>1-hop: 541-777-4740981 (Brett Mueller)</p> <p>2-hop: 442-000-9865092 (Albertina Braun)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p> <p>3-hop: 289-378-3996038 (Daniel Walker)</p> <p>4-hop: 881-633-0099232 (Enoch Quitzon)</p> <p>]</p>	<p>Phone numbers covered by a 4-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [</p> <p>1-hop: 663-879-6377778 (Rudolph Buckridge)</p> <p>1-hop: 541-777-4740981 (Brett Mueller)</p> <p>2-hop: 442-000-9865092 (Albertina Braun)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p> <p>3-hop: 289-378-3996038 (Daniel Walker)</p> <p>4-hop: 881-633-0099232 (Enoch Quitzon)</p> <p>]</p>

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" 15. See "number" 16. Type "358-721-0140950" 17. Check result 18. Type "stop"	2-hop: 903-282-4112077 (Tomas Nguyen) 3-hop: 289-378-3996038 (Daniel Walker) 4-hop: 881-633-0099232 (Enoch Quitzon)]	
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<p>Test #5</p> <p>testID: testGetWarrant</p> <p>Strategy:</p> <p>Functional testing - Testing the getWarrant.java function</p>	<p>Preconditions: Test 1 and Test 2 passed</p> <p>Steps:</p> <ol style="list-style-type: none"> 1. Click "Get Warrant" 2. Enter the phone number "358-721-0140950" 3. Enter the hops "2" 4. Click "Generate" 5. Check results 	<p>The system will provide a warrant with 2 hops for 358-721-0140950 (Teresa Kuphal)</p> <p>Phone numbers covered by a 2-hop warrant originating from 358-721-0140950 (Tereasa Kuphal) [</p> <p>1-hop: 663-879-6377778 (Rudolph Buckridge)</p> <p>1-hop: 541-777-4740981 (Brett Mueller)</p> <p>2-hop: 442-000-9865092 (Albertina Braun)</p> <p>2-hop: 134-530-7421728 (Roseanna Herman)</p> <p>2-hop: 903-282-4112077 (Tomas Nguyen)</p> <p>]</p>	
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