

UT IT TESTING PLAN AND REPORT

Unit testing plan:

| | A | B | C | D | E | F | G | H |
|---|--------------|------------|--|----------------------|------------|---------------------------|------------------|-------------------|
| 1 | TEST CASE ID | STEP | PRECONDITIONS/DEPENDENCIES | TEST CASE | TEST DATA | EXPECTED RESULTS | RESULTS OBTAINED | STATUS(PASS/FAIL) |
| 2 | UT_01 | Rainy case | Contact with given name not present | Remove contact | name | Does not remove contact | DONE | PASS |
| 3 | UT_02 | Sunny case | Contact should be present | Remove contact | name | Contact removed | DONE | PASS |
| 4 | UT_03 | Rainy case | Group shouldn't be present against user in authentication database | Change group | group name | Does not change group | DONE | PASS |
| 5 | UT_04 | Sunny case | Group should be present against user in authentication database | Change group | group name | Group changed | DONE | PASS |
| 6 | UT_05 | Rainy case | Group name should be empty or public group | AuthenticatedAddData | group name | Contact not added | DONE | PASS |
| 7 | UT_06 | Sunny case | Group name should not be empty or public group | AuthenticatedAddData | group name | Contact added | DONE | PASS |
| 8 | UT_07 | Rainy case | Contacts matching with given pattern not present | Tolistcontact | name | Empty list | DONE | PASS |
| 9 | UT_08 | Sunny case | Contacts matching with given pattern should be present | Tolistcontact | name | List of matching contacts | DONE | PASS |

Unit testing report:

```
DevKit CUnit - A unit testing framework for C - Version 2.1-3
http://cunit.sourceforge.net/

Suite: suite for removing contact from a file ...
  Test: Test for removecontact() in sunny cases ... passed
  Test: Test for removecontact() in rainy cases ... passed
Suite: suite for changing group ...
  Test: Test for ToChgrp() in sunny cases ... passed
  Test: Test for ToChgrp() in rainy cases ... passed
Suite: suite for adding contact ...
  Test: Test for AuthenticatedAddData() in sunny cases ... passed
  Test: Test for AuthenticatedAddData() in rainy cases ... passed
Suite: suite for listing contact ...
  Test: Test for Tolistcontact() in sunny cases ... passed
  Test: Test for Tolistcontact() in rainy cases ... passed

Run Summary:      Type   Total   Ran   Passed   Failed   Inactive
                suites      4       4      n/a       0         0
                tests      8       8       8       0         0
                asserts    24      24      24       0        n/a

Elapsed time =    0.002 seconds
```

Integration testing plan:

| | A | B | C | D | E | F | G | H |
|---|--------------|----------------|--|-----------------------------------|----------------------------|------------------|------------------|-------------------|
| 1 | TEST CASE ID | STEP | PRECONDITIONS/DEPENDENCIES | TEST CASE | EXPECTED RESULTS | RESULTS OBTAINED | RESULTS OBTAINED | STATUS(PASS/FAIL) |
| 2 | IT_01 | Add contact | Authenticated user: Change group | Add contact to particular group. | Contact added to group | DONE | DONE | PASS |
| 3 | IT_02 | Remove contact | User should only be Admin/Authenticated. | Remove contact from the group. | Contact removed from group | DONE | DONE | PASS |
| 4 | IT_03 | Add group | User should only be Admin | Add a group | Group added | DONE | DONE | PASS |
| 5 | IT_04 | Remove group | User should only be Admin. | Remove group | Group removed | DONE | DONE | PASS |
| 6 | IT_05 | Change group | User should only be Authenticated | Change a group | Group changed | DONE | DONE | PASS |
| 7 | IT_06 | List details | User should only be Admin/Authenticated. | List details of a particular user | List is displayed | DONE | DONE | PASS |

Integration testing report:

IT_01:

```
$ make client
../bin/client
Enter the Username :
Enter the password :
anonymous user
Enter the subcommand :ADD
ADD command should have two fields
Enter the subcommand :ADD 1
ADD command should have two fields
Enter the subcommand :list
Anonymous user should provide only ADD subcommand
Enter the subcommand :ADD sai,9009989098
Contact added
Enter the subcommand :addgrp
Anonymous user should provide only ADD subcommand
Enter the subcommand :chgrp
Anonymous user should provide only ADD subcommand
Enter the subcommand :ADD Ayeshkanta,8909089988
Contact added
Enter the subcommand :bye
```

IT_01, IT_02, IT_05, IT_06:

```
└─$ make client
../bin/client
Enter the Username :sai nath
Enter the password :group6
authenticated user

Enter the subcommand :addgrp production
Authenticated users can only use ADD,rm,list,chgrp and bye/Bye subcommand
s
Enter the subcommand :addgrp
Enter the subcommand :ADD virat,1234
Authenticated user can't add the data to the public group
Enter the subcommand :addgrp temp
Enter the subcommand :list a
Matching contacts:
ad1,de1
Enter the subcommand :rmgrp temp
Group removed

Enter the subcommand :chgrp production 98976
Group changed inputs: name,phonenumber,filename

Enter the subcommand :ADD vinay,777788889076,production
Contact added to the given group

Enter the subcommand :list v,production
Matching contacts:
vinay,7777888890
Enter the subcommand :list u,production
Matching contacts:
Enter the subcommand :list vin
Matching contacts:
vinay,7777888890
Enter the subcommand :rm arpita,public group
Contact removed from the given group
Enter the subcommand :list q
No contacts with given pattern

Enter the subcommand :rm vinay_final/make
Contact removed

Enter the subcommand :list q
No contacts with given pattern

Enter the subcommand :bye
```

IT_01, IT_02, IT_03, IT_04, IT_06:

```
└─$ make client
../bin/client
Enter the Username :admin
Enter the password :1
admin@ous:~$

Enter the subcommand :chgrp production
Admin can give addgrp,rmgrp,list,rm or ADD subcommand only

Enter the subcommand :addgrp hr,6378998976
Group added

Enter the subcommand :addgrp temp
Group added
Warning: /home/kali/Desktop/run_final/make/./bin/client/main.go:4:overwriting an existing profile data with a different
Enter the subcommand :rmgrp temp
Group removed
kali@kali:~/Desktop/run_final/make$
Enter the subcommand :ADD utkarsh,6378998976
Provide three inputs name,phonenumber,filename

Enter the subcommand :ADD utkarsh,6378998976,production
contact added to the given group

Enter the subcommand :kist u,production
Admin can give addgrp,rmgrp,list,rm or ADD subcommand only

Enter the subcommand :list u,production
Matching contacts:
utkarsh,6378998976 ~/Desktop/run_final/make/
└─$ make server
../bin/server
Enter the subcommand :rm arpita,public group
contact removed from the given group
└─$
got a connection
Enter the subcommand :bye
```