
LETTER DISPATCH UNIT

Test report

VERSION 1.0

Group 20

VERSION HISTORY

| Version # | Implemented By | Revision Date | Brief Description |
|-----------|--|---------------|--|
| 1.0 | HIMANSHU DHNKAHR and ASHUTOSH YADAV | 2/4/2018 | |
| 2.0 | Meet Mehta Manvendra singh kushwah | 10/4/2018 | Cross tested and unresolved cases are written in the end |
| | | | |
| | | | |

TABLE OF CONTENTS:

| | |
|-----------------------------------|--|
| 1.0 Introduction..... | |
| 2.0 Test Plan | |
| 3.0 Unit Testing | |
| 3.1 Generate Report | |
| 3.2 Payment | |
| 3.3 Admin | |
| 3.4 Date | |
| 3.5 Error Class | |
| 3.6 Password Class | |
| 3.7 Post Letters | |
| 3.8 Login.cpp | |
| 3.9 Complain | |
| 3.10 Complain list | |
| 3.11 Letter | |
| 3.12 Letter database | |
| 3.13 Update database | |
| 3.14 Letters | |
| 3.15 Letter_status | |
| 3.16 Institute member | |
| 3.17 Institute Member List | |
| 4.0 System test | |
| 5.0 Unresolved Testcases | |

1.0 Introduction

1.1 Purpose

This *Unit and System* Test Report provides a summary of the results of test performed as outlined within this document. This document specifies various unit tests conducted and show there expected outcomes versus actual out comes, this document is intended to specify any incorrectness which is not detected by the development team and also to remove bugs and future refernce for maintainence team. And for making product more reliable and User Accepted. System testing is conducted to check all paths are covered and any bug obsereved after interegerating all modules.

2.0 Test Plan

All modules are first done unit testing which includes all functions are tested completely and then in system testing all modules are integerated and then testing for each path has been . In unit testing input can be considered as input as argument and input as console input. In System testing only paths are wriiten means adminlogin -> add member etc.

In test plan main focus was on functional requirement fullfillment as well as nonfunctional requirement. UNIT and SYSTEM Testing.

3.0 UNIT TESTING:

1 CLASS Generate Report

| Test Id | Void generatereport:: showLettersReport () | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|--|----------------------------------|--------------------------------|-----------|----------|
| 1.1 | Input: | All the letter must be displayed | It will display all the letter | Pass | verified |
| | | | | | |

| Test Id | Void generateReport:: showPaymentsReport () | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|--|--------------------------------|-------------------------------|-----------|----------|
| 1.2 | Input | It will print all the payments | All the payments were printed | Pass | verified |
| | | | | | |

| Test Id | Void generateReport:: <code>showComplainsReport()</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|------------------------------------|---------------------------------------|-----------|----------|
| 1.3 | Input | All the complain must be displayed | It dispay all the complain registered | Pass | verified |
| | | | | | |

| Test Id | Void generateReport:: <code>displayLReport(vector<string> vec)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|--|-----------|----------|
| 1.4 | It will take vector string Input: each string will be of this format "b1b16cs00832 XXXX YYY Y yyyy dd/mm/yyyy" | It must be show the recipient id,letter id , letter status and date | It will show the recipient id,letter id , letter status and date | Pass | verified |
| | | | | | |

| Test Id | Void GenerateReport:: <code>displayPReport(vector<string> vec)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|---|-----------|----------|
| 1.5 | It will take vector of string each string will contain information about a Letter | It must be show the recipient id,letter id , payment and date | It will show the recipient id,letter id , payment and date | Pass | verified |
| | | | | | |

| Test Id | Void generateReport:: <code>displaycReport(vector<string> vec)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---|-----------|----------|
| 1.6 | It will take vector about later | It must be show the complaine id, issue for which complain is registered and status of complain | It will show the recipient id,letter id , payment and date | Pass | verified |
| | | | | | |

| Test Id | Void GenerateReport:: <code>ShowDashBoard()</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|---|-----------|----------|
| 1.7 | Input: from console 1 // or 2 // or 3 // or 4 // or | It must be display the following 4 option 1-letters reports 2-payments reports 3-complains reports 4-back | It display the 4 option correctly and on entereing input it will each respective function | Pass | verified |
| | | | | | |

2 CLASS PAYMENT

| Test Id | <code>int payment::getpayme nt(string city)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|--|------------------|---------------|-----------|----------|
| | | | | | |

| | | | | | |
|-----|-------|---|------------------------|------|----------|
| 2.1 | delhi | 50 | 50 | Pass | verified |
| | XXXX | Negative cost will be returned for cities not available in database | -1 // negative cost | pass | verified |

| Test Id | <code>string payment::add(vector<string> vec)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|--------------------------------------|-----------|----------|
| 2.2 | A vector of strings Himanshu 992901XXXX city payment id cost | It must be add the payment in database. | Payment database was showing payment | Pass | verified |
| | | | | | |

| Test Id | <code>string payment::generatePaymentId(vector<string> vec)</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|--|------------------------------|-------------------------|-----------|----------|
| 2.3 | A vector string Himansuh b16csweew Date cost etc... | It will generate the payment | Payment id was returned | Pass | verified |
| | | | | | |

3 ADMIN CLASS

| Test Id | <code>static string Admin::getpasswd()</code> | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|---|------------------|---------------|-----------|----------|
| | | | | | |

| | | | | | |
|-----|-------|-----------------------------|-----------------------------|------|----------|
| 3.1 | input | It must return the password | Admin password was returned | pass | verified |
| | | | | | |

| Test Id | static string Admin::getadminID() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|-----------------------------------|--------------------------------|-----------------------|-----------|----------|
| 3.2 | Input | It must be return the admin id | Admin id was returned | Pass | verified |
| | | | | | |

| Test Id | static string Admin::getadminID() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|-----------------------------------|--|--|-----------|----------|
| 3.3.1 | 1 | If must open showAddLetterDashboard() function | It will open showAddLetterDashboard() function | Pass | verified |
| 3.3.2 | 2 | It must open L2.ShowDashboard() function | It will open L2.ShowDashboard() function | Pass | verified |
| 3.3.3 | 3 | It must open R`1.ShowDashboard() function | It will open R`1.ShowDashboard() function | pass | verified |
| 3.3.4 | 4 | It must open D1.ShowDashboard() function | It will open D1.ShowDashboard() function | pass | verified |
| 3.3.5 | 5 | It must open LS1.ShowDashboard() function | It must open LS1.ShowDashboard() function | pass | verified |
| 3.3.6 | 6 | It must open CL1.ShowDashboard() function | It will open CL1.ShowDashboard() function | Pass | verified |

| | | | | | |
|-------|---|--------------------------------|-----------------------------|------|----------|
| 3.3.7 | 7 | It must be close the programme | It will close the programme | pass | Verified |
| 3.3.8 | XXXX // for any other input it will remain on same page | It must remain on same page | It shown same dash board | Pass | Verified |
| | | | | | |

4 DATE

| Test Id | static string Date::dateString() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|----------------------------------|------------------------------------|------------------------------|-----------|----------|
| 4.1 | input | It must be return the current date | It returned the current date | pass | verified |
| | | | | | |

5 ERROR CLASS

| Test Id | Void error::showLoginerror() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|------------------------------|--|--|-----------|----------|
| 5.1 | Input | It must show the error message on screen | Shown error message | pass | verified |
| | string | It must shown error and Goto login page | It shown error string and moved to On login page | pass | verified |

6 Password class

| Test Id | static string passwd::getpasswd() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|-----------------------------------|------------------|---------------|-----------|----------|
| | | | | | |

| | | | | | |
|-----|--------|---|--|------|----------|
| 6.1 | string | It must take the password from user and return a string while taking input console shouldn't print the password | Return a string it kept password hidden on console | pass | verified |
| | | | | | |

7 Post_Letter

| Test Id | void Ppost_Letter::ShowDashboard() | Intendent Result | Actual Result | Pass/Fail | Comments |
|---------|------------------------------------|---|---------------------------------------|-----------|----------|
| 7.1 | Ashutosh 94***** Delhi y | 50 | 50 | pass | verified |
| | Ashutosh 94***** Delhi n | Go to back | On previous page | pass | verified |
| | Ashutosh 94***** dhaka | It must show error message that our service are not provided in this city | Our service not provided in this city | pass | Verified |
| | | | | | |

8 Login.cpp

| Test Id | main() | Intendent Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|--------|---------------------------|-------------------------------------|-----------|--|--------------|
| 8.1 | d 1 | Go to the admin dashboard | On admin dashboard | pass | Here id and password both are right | Verified |
| 8.2 | E 1 | Show error message | Shown error and moved to login page | pass | Here id is wrong but password is right | Verified |
| 8.3 | d 2 | Show error message | Shown error and moved to login page | pass | Here id is right but password is wrong | Verified |

| | | | | | | |
|-----|-------------|--------------------|-------------------------------------|------|-------------------------------------|----------|
| 8.4 | G 234235 | Show error message | Shown error and moved to login page | pass | Here id and password both are wrong | Verified |
|-----|-------------|--------------------|-------------------------------------|------|-------------------------------------|----------|

9.1 Complain

| Test ID | Complain::Complain(string,string,string,string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---------------------------------|---------------|-----------|----------|
| 9.1.1 | Input: b16cs008,letter not recieved, unresolved, Cpb16cs008DT31/3/2018 | Complain object will be created | As expected | Pass | Verified |

9.2 Complain

| Test ID | Complain::updateStatus(string) | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|--------------|--------------------------------|---|---------------|-----------|--|--------------|
| 9.2.1 | Input: resolved | Status of that particular complain object will change | As expected | pass | This can be verified by displaying all complains in class ComplainList | Verified |
| 9.2.2 ... | Input :not resolved | Status of that particular complain object will change | As expected | Pass | Verified by displaying all complains | Verified |

9.3 Complain

| Test ID | Complain::getcomplainID() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|-----------------------------|---|---------------|-----------|----------|
| 9.3.1 | Input: // no input required | Complain id assigned with that complain object will be returned | As expected | Pass | Verified |

10.1 ComplainList

| Test ID | ComplainList::showDashboard(); | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|---|---|---------------|-----------|----------|--------------|
| 10.1.1 | Input: 1 Himanshu Dhankhar 99XXXXXX | Complain will be generated and complain | As expected | pass | // | Verified |

| | | | | | | |
|--|--|----------------------|--|--|--|--|
| | | database will update | | | | |
|--|--|----------------------|--|--|--|--|

| | | | | | | |
|---------------|---|--|---|---|---------------------------------------|----------|
| 10.1.1 | Input: 3 CPb16cs008DT2018/3/31 resolved | Display update complain staus screen and ask for complain id and status will be updated. Because Id is correct == it is given that complain id will be correct | As expected complaint status was updated | Pass complaint status was updated | Verified by displaying all complaints | Verified |
| 10.1.2 | Input: 2 NA Himanshu Dhankhar | Display all the complaints related to Himanshu Dhankhar | As expected All complaints registered by himanshu were displayed | Pass | // | Verified |
| 10.1.3 | Input 2 NA | Error will be displayed with wrong credentials | As expected | Pass | // | Verified |
| 10.1.4 | Input 2 | Error will be displayed with wrong complaint id | As expected | Pass | // | Verified |
| 10.1.5 | Input: 4 | All complains will be displayed with complete information | As expected all complains were displayed | Pass | // | Verified |
| 10.1.6 ... | Input : 2 Cpb16cs008DT2018/3/31 | Display the check complain status screen and call goes to CheckComplainStatus() | As expected asked to enter complaint id | Pass staus of complain was displayed | Verified by displaying on screen | Verified |

10.2 ComplainList

| Test ID | ComplainList::ComplainList() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|------------------------------|---|---------------|-----------|----------|
| 10.2.1 ... | Input: | List of complain objects will be created by reading database and inditiutememberList object will be created | As expected | pass | Verified |

10.3 complainlist

| Test ID | ComplainList::updateComplainStatus() | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------------|--------------------------------------|---|---------------|-----------|--|--------------|
| 10.3.1 | Input: CPb16cs008DT2018/3/3 | Status of that particular complain object will change | As expected | pass | This can be verified by displaying all complains in class ComplainList | Verified |
| 10.3.2 ... | Input : | Invalid complain id error displayed and | As expected | Pass | // | Verified |

| | | | | | | |
|--|--|-------------------------|--|--|--|--|
| | | Return to previous menu | | | | |
|--|--|-------------------------|--|--|--|--|

10.4 ComplainList

| Test ID | vector<Complain> Complain::findComplain_by_RecipientID(string) | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------------|---|---|------------------------------------|-----------|--|--------------|
| 10.4.1 | Input: string = recipient id b16cs008 | Return a vector<Complain> containing all the associated with that recipient | As expected vector was returned | pass | // | Verified |
| 10.4.2 ... | Input : wrong recipient id bbbbbbb | Empty vector<Complain> will be returned | As expected | Pass | Verified by displayingComplain(vector<Complain>) | Verified |

10.5 ComplainList

| Test ID | vector<Complain> ComplainList::findComplain_by_ComplainId(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|--|--|---------------|-----------|----------|
| 10.5.1 | Input: string CP16cs008DT2018/3/31 suppose it is a valid complain id | vector<Complain> will be returned containing that complain | As expected | Pass | Verified |
| 10.5.2 ... | Input :invalid complain id bbbbbbbbbb | Empty vector will be returned | As expected | Pass | Verified |

10.6 Complainlist

| Test ID | ComplainList::showAllComplains() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|----------------------------------|--|---|-----------|----------|
| 10.6.1 | Input: | It will pass the vector containing All _complains to displayComplain(vector<Complain> method | As expected call goes to display function and all of the complains registered till date were displayed | pass | Verified |

10.7 ComplainList

| Test ID | ComplainList::displayComplains(vector<Complain>) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|--|--|---|-----------|----------|
| 10.7.1 ... | Input: vector<Complain> | All the complains must have to be displayed with status matter date and complaineer name | As expected all complains were displayed with all information | Pass | Verified |

10.8 ComplainList

| Test ID | ComplainList::printComplainListtoFile() | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|---|--|--|-----------|--|--------------|
| 10.8.1 | Input: | All_complains will be printed to complain.txt file after modification or addition of complains | As expected the file was updated which is acting as database | pass | // verified by opening file in text editor as well as verified again by closing program and displaying all complains | Verified |

10.9 Complainlist

| Test ID | ComplainList::addComplain() | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|------------------------------------|---|--|-----------|---------------------------------------|--------------|
| 10.9.1 | Input: b16csoo8 letter not found | Complain will be registered and updated in database and complain id will be generated | As expected success and complaint id will be displayed | pass | // verified by printing all complains | Verified |
| | | | | | | |
| 10.9.2 | Input : edsessf | Wrong id error message will be displayed | As expected | Pass | // verified | Verified |

10.10 ComplainList

| Test ID | vector<string> ComplainList::extract(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|-----------------|---------------|-----------|----------|
|---------|---|-----------------|---------------|-----------|----------|

| | | | | | |
|---------|---|---|---|------|----------|
| 10.10.1 | Input: b16csoo8 cpdt resolved 2018/ 3/4 | A string which is concatenation of many strings will be given and output will vector containing all these strings | As expected vector<string> was returned | pass | Verified |
|---------|---|---|---|------|----------|

10.11 ComplainList

| Test ID | ComplainList::CheckComplainStatus() | Intended Result | Actual Result | Pass/Fail | Comments |
|----------------|-------------------------------------|---|---------------|-----------|----------|
| 10.11.1 | Input: valid complain id | Status of that particular complain will be displayed | As expected | pass | Verified |
| 10.11.2 ... | Input : NA valid InstituteId | Status of that particular complain object will be displayed | As expected | Pass | Verified |
| 10.11.3 | Input : invalid compliant id | Error of invalid complaint id will be displayed | As expected | Pass | Verified |
| 10.11.4 | Input : NA invalid Institute ID | Error of member id doesn't exist will be shown | As expected | Pass | Verified |

11.1 Letter

| Test ID | Letter::makeLetter(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|------------------------|---------------|-----------|----------|
| 11.1.1 | Input: string containing information about letter B16XXXX satus letter_code 1 | Return a Letter object | As expected | pass | Verified |

11.2 Letter

| Test ID | Letter::getReceivingDate() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|----------------------------|---|---------------|-----------|----------|
| 11.2.1 | Input: | It will return date of that particular day on which letter has been created | As expected | pass | Verified |
| | | | | | |

11.3 Letter

| Test ID | vector<string> Letter::getinfo(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 11.3.1 | Input: string containing all the information about | It will decay that string and return a vector<string> | As expected | pass | Verified |

| | | | | | |
|--|--|--------------------------|--|--|--|
| | letter b15XXXX status letter_code o | containing these strings | | | |
| | | | | | |

11.4 Letter

| Test ID | Letter::Letter(string,string,string,int) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|---------------|-----------|----------|
| 11.4.1 | Input: b16XXXX , stage 1 , letter_code,choice ==0 choice ==1 | Letter object will be created anf initialized | As expected | pass | Verified |
| | | | | | |

12.1 LetterDatabase

| Test ID | LetterDataBase::getList() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---------------------------|--|---------------|-----------|----------|
| 12.1.1 | Input: | It will return the All_letters list | As expected | pass | Verified |
| | | | | | |

12.2 Letterdatabase

| Test ID | LetterDataBase::add(InstituteMember,int string,string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|--|-----------|----------|
| 12.2.1 | Input: InstituteMember object , int choice ,string letter_code ,string status | A letter object will be created and will be added to All_letters list and then list will be printed to database | As expected database was updated | pass | Verified |
| | | | | | |

12.3 LetterDatabase

| Test ID | LetterDataBase::printListToDataBase() | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|---------------------------------------|---|---------------|-----------|--|--------------|
| 12.3.1 | Input: | It will print all the letters to the letter database using All_letters list of Letters | As expected | Pass | // Letter Database file all_letters1.txt was updated | Verified |
| | | | | | | |

12.4 LetterDataBase

| Test ID | LetterDataBase::updateLetterinList(Letter) | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|--|-----------------|---------------|-----------|----------|--------------|
| | | | | | | |

| | | | | | | |
|--------|----------------------|--|-------------|------|------------------------------|----------|
| 12.4.1 | Input: Letter object | It will add or update Letter L to All_letters List and call printListtoFile() function | As expected | pass | // DataBase file was updated | Verified |
| | | | | | | |

12.5 LetterDatabase

| Test ID | LetterDataBase::LetterDatabase() | Intended Result | Actual Result | Pass/Fail | Comments | Verification |
|---------|----------------------------------|--|---------------|-----------|---|--------------|
| 12.5.1 | Input: | It will read the database file and initialize the All_letters list | As expected | pass | //All_letters list was ready to use for other functions | Verified |
| | | | | | | |

12.6 LetterDatabase

| Test ID | LetterDataBase::getLetter_by_Letter_Code(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|--|--|-----------|----------|
| 12.6.1 | Input: b1s4 | For Valid Letter_code it will return a letter object having the same letter code | As expected same letter was returned back | pass | Verified |
| | | | | | |

12.7 Letterdatabase

| Test ID | LetterDatabase::getLetter_by_LetterStatus(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|---|-----------|----------|
| 12.7.1 | Input: undelivered | A vector of all those letters will be returned which are having same Letter status | As expected all undelivered letters were returned back | pass | Verified |
| | | | | | |

12.8 letterdatabase

| Test ID | LetterDataBase::getLetter_by_RecivingDate(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|---|-----------|----------|
| 12.8.1 | Input: 2018/3/31 | For a given date all those letters will returned which were added to Letter Database on that date | As expected all letters of same date were returned | pass | Verified |
| | | | | | |

13.1 UpdateDatabase

| Test ID | UpdateDataBase::ShowDashBoard() | Intended Result | Actual Result | Pass/Fail | Comments |
|------------|---|---|---|-----------|----------|
| 13.1.1 | Input: 1 Himansu dhaka b16csoo8 9888XXXX b1 dhankhar.1@iitj.ac.in b1 | 1 will select add member option and the member will be added to InstituteMember DataBase if his/her id doesn't match with the id of other members | As expected member was success fully added and database was updated as id was unique | pass | Verified |
| 13.1.2 ... | Input : 2 Himanshu dhaka b16csoo8 9888XXXX b1 Ram | All data members will be matched and then proceed to modify dash board and then modify | As expected name was modified from Himanshu to Ram | Pass | Verified |
| 13.1.3 | Input 2 nsldcnd dcsd ede b2 | For invalid credentials it will show no member has these credentials | As expected error was shown | Pass | Verified |
| 13.1.4 | Input 3 Ram b16csoo8 9888XXXX b1 | For valid credentials at choice 3 it will that member from institute member data base once member is verified | As expected member was deleted from database | Pass | Verified |
| 13.1.5 | Input 3 sdcsc Sdc scsc sdcsc | For invalid credentials at choice 3 it will display that this member doesn't exist | As expected error was shown | Pass | Verified |
| 13.1.6 | Input 4 | It will call showMembers() that will display all the members present in the institute | As expected all member were displayed on screen | Pass | Verified |
| 13.1.7 | Input 5 | Will take you to back to admin dash board | As expected admin dashboard was displayed | Pass | Verified |

13.2 UpdateDataBase

| Test ID | UpdateDataBase::showMembers() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|-------------------------------|--|--------------------------------------|-----------|----------|
| 13.2.1 | Input: | It will display the IMB list of UpdateDataBase | As expected all members displayed | pass | Verified |
| | | | | | |

14.1 Letters

| Test ID | Letters::Letters(string,string, string,string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 14.1.1 | Input: recipientid , Letterid,letter status,date | It will initialize Letters class object | As expected | pass | Verified |
| | | | | | |

15 Letter_Status

| Test ID | Letter_Status::ShowDashboard() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|----------------------------------|---|---|-----------|----------|
| 15.1.1 | Input: | It will display all choices to user regarding check letter status update Letter status show all letters | As expected | pass | Verified |
| 15.1.2 | Input 1 | CheckLetterStatus() function will be called() | As expected call goes to checkLetterStatus() | Pass | Verified |
| 15.1.3 | Input 2 | Call goes to UpdateLetterStatus() | As Expected call goes to updateLetterstatus() | Pass | Verified |
| 15.1.4 | Input 3 | Call goes to showAllLetters() | As expected | Pass | Verified |
| 15.1.5 | Input 4 | Takes back to admin dashboard | As expected | Pass | Verified |
| 15.1.6 | Input any input other than these | Same screen will be displayed | As expected | Pass | Verified |
| | | | | | |

15.2 Letter_Status

| Test ID | Letter_Status::Letter_Status() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--------------------------------|--|---|-----------|----------|
| 15.2.1 | Input: | It will read all letters from database and initialize All_letters list | As expected All_letters list was available for other functions | pass | Verified |
| | | | | | |

15.3 Letter_Status

| Test ID | Letter_Status::getletters_by_id(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|--|-----------|----------|
| 15.3.1 | Input: b16cs008 | For a given insitiute id it will return all letters associated with that recipient id | As expected vector<letters> was returned whom recipient was same person | pass | Verified |
| | | | | | |

15.4 Letter_status

| Test ID | Letter_Status::checkLetterStatus() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|------------------------------------|---|---|-----------|----------|
| 15.4.1 | Input: b1s4 | For a valid letter id it will display letter status for that letter | As expected letter status was displayed | pass | Verified |
| 15.4.2 ... | Input :XXXXXX | For invalid id this Letter_code doesn't exist will be displayed | As expected error was displayed | Pass | Verified |
| 15.4.3 | Input NA | It will prompt to ask Recipient id | As expected recipient id was asked | Pass | Verified |
| 15.4.4 | Input NA b16cs008 | For correct recipient id all letters associated with that id will be displayed | As expected all letters were displayed | Pass | Verified |
| 15.4.5 | Input NA XXXXXXXX | For incorrect recipient id error of recipient doesn't exist will be shown and taken back menu | As expected error was shown and taken back to previous menu | Pass | Verified |

15.5 Letter_Status

| Test ID | Letter_Status::getletter_by_id(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|--|--|---|-----------|----------|
| 15.5.1 | Input: b1s4 | Given a correct letter id then letter paritcular with that letter id will be returned back | As expected letter object was returned back with same letter id | pass | Verified |
| 15.5.2 ... | Input : XXXXX | Invalid Letter id Letter object will be returned back with datamembers as error | As expected letter object has recipient id as error | Pass | Verified |
| | | | | | |

15.6 Letter_Status

| Test ID | Letter_Status::extract(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|--|-----------|----------|
| 15.6.1 | Input: b16008 b1s4 undeliverd 2018/3/31 | vector<string> will be returned back when a particular string is given as input | As expected vector<string> was returned back | pass | Verified |
| | | | | | |

15.7 Letter_status

| Test ID | Letter_Status::displayLetter(vecotr<Letters>) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|--|-----------|----------|
| 15.7.1 | Input: given vector of Letters | It will display all the letters that were present in that vector | As expected all letters were displayed | pass | Verified |
| | | | | | |

15.8 Letter_status

| Test ID | Letter_Status::UpdateLetterStatus() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------------|-------------------------------------|--|--|-----------|----------|
| 15.8.1 | Input: b1s4 delivered | For a given correct letter code it will ask for new status for that letter and update the Letter | As expected letter status was updated | pass | Verified |
| 15.8.2 ... | Input : XXXX | For incorrect letter code it will display error showing the letter code doesn't exist and take you back to the previous menu | As expected error displayed and taken to previous menu | Pass | Verified |

15.9 Letter_Status

| Test ID | Letter_Status::printListtoFile() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|----------------------------------|--|----------------------------------|-----------|----------|
| 15.9.1 | Input: | It will print All_letters list to letters database, so that any update can be stored to database | As expected database was updated | pass | Verified |
| | | | | | |

15.10 Letter_Status

| Test ID | Letter_Status::ShowAllLetters() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---------------------------------|---|--|-----------|----------|
| 15.10.1 | Input: | It will display all letters from letters all_letters list | As expected all letters were displayed | pass | Verified |
| | | | | | |

16.1 InstituteMember

| Test ID | InstituteMember::InstituteMember(string,string,string,string,int) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|---------------|-----------|----------|
| 16.1.1 | Input: himanshu b16csoo8 dhankhar.1@iitj.ac.in 99288XXXX b1 o | A new InstituteMember object will be created and initialized | As expected | pass | Verified |
| | | | | | |

16.2 InstituteMember

| Test ID | InstituteMember::modify(string,string) | Intended Result | Actual Result | Pass/Fail | Comments |
|------------|---|--|---|-----------|----------|
| 16.2.1 | Input: name Ram | If first string is name then name of that InstituteMember will be changed to second string | As expected name of instituteMember was changed | pass | Verified |
| 16.2.2 ... | Input : id b15767 | If first string is id then Recipient_id of that InstituteMember will be changed to second string | As expected id changed | Pass | Verified |
| 16.2.3 | Input contact 8o8oXXXX | If first string is contact then contact of that InstituteMember will be changed to second string | As expected contact changed | Pass | Verified |
| 16.2.4 | Input email dhaild@cldc.com | If first string is email then email of that InstituteMember will be changed to second string | As expected | Pass | Verified |
| 16.2.5 | Input building b7 | If first string is building then building_or_department of that InstituteMember will be changed to second string | As expected | Pass | Verified |
| 16.2.6 | other inputs cannot exist as it is hard coded not taking input from console | | | | |

16.3 InstituteMember

| Test ID | InstituteMember::update_letter_recieved(int n=1) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|--|---|-----------|----------|
| 16.3.1 | Input :n | This will increase the letters recieved by an instituteMember by n by default n is 1 | As expected it increased number of letters recieved | pass | Verified |
| | | | | | |

17.1 InstituteMemberList

| Test ID | InstituteMemberList::InstituteMemberList() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---|-----------|----------|
| 17.1.1 | Input: | It will read all the institute members from database and storing them in list All_members | As expected list was available for other member functions | pass | Verified |
| | | | | | |

17.2 InstituteMemberList

| Test ID | InstituteMemberList::getList() | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--------------------------------|---------------------------------|---|-----------|----------|
| 17.2.1 | Input: | It will return All_members List | As expected list was available for other member functions | pass | Verified |
| | | | | | |

17.3 InstituteMemberList

| Test ID | InstituteMemberList::printListToFile | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--------------------------------------|--|-----------------------------------|-----------|----------|
| 17.3.1 | Input: | It will print all the institutemembers from list to file | As expected database was expected | Pass | Verified |
| | | | | | |

17.4 InstituteMemberList

| Test ID | InstituteMemberList::find_by_name(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|---|---|-----------|----------|
| 17.4.1 | Input: Himanshu | It will return a vector<InstituteMember> with same Recipient_name | As expected a vector<InstituteMember> was returned all having same name | Pass | Verified |
| | | | | | |

17.5 InstituteMemberList

| Test ID | InstituteMemberList::find_by_id(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|-----------------|---------------|-----------|----------|
| | | | | | |

| | | | | | |
|--------|-----------------|--|---|------|----------|
| 17.5.1 | Input: b16cs008 | It will return a InstituteMember with same Recipient_id | As expected InstituteMember with b16cs008 was returned back | pass | Verified |
| 17.5.2 | Input XXXXX | It will return a InstituteMember with Recipient_name "error" | As expected error named institutemember was returned back | Pass | Verified |

17.6 InstituteMemberList

| Test ID | InstituteMemberList::find_by_email(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|---|-----------|----------|
| 17.6.1 | Input: dhankhar.1@iitj.ac.in | Return a InstituteMember with same email id | As expected | pass | Verified |
| 17.6.2 | Input XXXXX | It will return a InstituteMember with Recipient_name "error" | As expected error named institutemember was returned back | Pass | Verified |

17.7 InstituteMemberList

| Test ID | InstituteMemberList::find_by_contact(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|--|---|-----------|----------|
| 17.7.1 | Input: 9979790879 | Return a InstituteMember with same contact | As expected | pass | Verified |
| 17.7.2 | Input XXXXX | It will return a InstituteMember with Recipient_name "error" | As expected error named institutemember was returned back | Pass | Verified |

17.8 InstituteMemberList

| Test ID | Static InstituteMemberList::make_member(string) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 17.8.1 | Input: himanshu b16cs008 992889792 dhankhar.1@iitj.ac.in 0 | Return a InstituteMember with all credentials given in input string | As expected | pass | Verified |
| | | | | | |

17.9 InstituteMemberList

| Test ID | InstituteMemberList::make_from_member(InstituteMember) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 17.9.1 | Input: InstituteMember | Return a string containing all the information of that institutemember in concatenated form | As expected | pass | Verified |

| | | | | | |
|--|--|--|--|--|--|
| | | | | | |
|--|--|--|--|--|--|

17.10 InstituteMemberList

| Test ID | InstituteMemberList::updateMember(InstituteMember) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 17.10.1 | Input: InstituteMember | It will either add it to database it doesn't exist there or it will update its credentials if it exists there | As expected | pass | Verified |
| | | | | | |

17.11 InstituteMemberList

| Test ID | InstituteMemberList::verify(string[]) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---|-----------|----------|
| 17.11.1 | Input: name, id,contact,email,building | Return a InstituteMember that has same credentials most matched | As expected | pass | Verified |
| 17.11.2 | Input XXXXX,ZZZZZ,SSSSS,EEEEEE,EEEE | It will return a InstituteMember with Recipient_name "error" | As expected error named institutemember was returned back | Pass | Verified |

17.12 InstituteMemberList

| Test ID | InstituteMemberList::verifymember(string[]) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|---|--|---|-----------|----------|
| 17.12.1 | Input: name, id,contact,email,building | Return a InstituteMember that has same credentials all matched | As expected | pass | Verified |
| 17.12.2 | Input XXXXX,ZZZZZ,SSSSS,EEEEEE,EEEE | It will return a InstituteMember with Recipient_name "error" | As expected error named institutemember was returned back | Pass | Verified |

17.13 InstituteMemberList

| Test ID | InstituteMemberList::verifyornewmember(string[]) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---|-----------|----------|
| 17.13.1 | Input: name, id,contact,email,building | Return a InstituteMember named error that has same recipient id matched | As expected error named institutemember was returned back | pass | Verified |
| 17.13.2 | Input XXXXX,ZZZZZ,SSSSS,EEEEEE,EEEE | It will return a InstituteMember with all credentials as input when recipient id is not matched | As expected | Pass | Verified |

17.14 InstituteMemberList

| Test ID | InstituteMemberList::generateCode(InstituteMember) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---------------|-----------|----------|
| 17.14.1 | Input: name, instituteMember | Return a string denoted as letter_code generated from Recipient | As expected | pass | Verified |
| | | | | | |

17.15 InstituteMemberList

| Test ID | InstituteMemberList::deleteMember(InstituteMember) | Intended Result | Actual Result | Pass/Fail | Comments |
|---------|--|---|---|-----------|----------|
| 17.15.1 | Input: InstituteMember | Delete that instituteMember from list and save list to file | As expected member was deleted and file was updated | pass | Verified |
| | | | | | |

4.0 System testing

| Step | Test step | Intended Result | Actual Result | Pass/Fail | Comments |
|------|--|---|--|-----------|----------|
| 1 | Admin login->Add letter->enter recipient information | Letter will be added to database and letter code will be generated if recipient information is correct and recipient exists in database | As expected Letter code was generated and Letter database was updated | pass | Verified |
| 2 | Admin login->Post letter->enter information | If all information is correct and payment is done then payment id will be generated and payment database will be updated | As expected payment id was displayed and payment database was updated | Pass | Verified |
| 3 | Admin login->generate report->letter report | All letters collected will be displayed | As expected all collected letters were displayed along with sufficient information | Pass | Verified |
| 4 | Admin login->generate report -> payment report | All payments collected will be displayed | As expected all payment ids with sufficient information were displayed | Pass | Verified |

| | | | | | |
|----|---|--|---|------|----------|
| 5 | Admin login->generate report ->complain report | All complains registered will be displayed | As expected all complains were displayed | Pass | Verified |
| 6 | Admin login -> update database -> add member | Enter member's information provided by institute , if institute id is unique than it will be added. | As expected member was added | Pass | Verified |
| 7 | Admin login ->update database ->modify member-> enter member information ->name | For correct member information it proceeds to ask new name and that will be assigned to that member | As expected member's name was modified in database as well | Pass | Verified |
| 8 | Admin login ->update database ->modify member-> enter member information ->id | For correct member information it proceeds to ask new id and that will be assigned to that member | As expected member's id was modified in database as well | Pass | Verified |
| 9 | Admin login ->update database ->modify member-> enter member information ->contact | For correct member information it proceeds to ask new contact and that will be assigned to that member | As expected member's contact was modified in database as well | Pass | Verified |
| 10 | Admin login ->update database ->modify member-> enter member information ->email | For correct member information it proceeds to ask new email and that will be assigned to that member | As expected member's email was modified in database as well | Pass | Verified |
| 11 | Admin login ->update database ->modify member-> enter member information ->building | For correct member information it proceeds to ask new building and that will be assigned to that member | As expected member's building was modified in database as well | Pass | Verified |
| 12 | Admin login->letter status ->check letter status ->enter letter details or enter NA then Recipient id | For correct letter id letter status will be displayed and if letter id is not entered NA was entered then enter correct recipient id and it will show status of all letters for that Recipient | As expected letter status was displayed | Pass | Verified |
| 13 | Admin login -> letter status ->update letter ->enter letter code or enter back | For correct letter code it prompt to enter new status of that letter and status will be updated | As expected letter status was updated | Pass | Verified |
| 14 | Admin login -> letter status ->show all letters | Status of all letters will be displayed | As expected status of all letters was displayed | Pass | Verified |
| 15 | Admin login -> complain ->register complain -> complainee id -> enter required information | For correct complainee id the complain will be registered and complain id will be displayed | As expected complain was registered and complain id was displayed | Pass | Verified |
| 16 | Admin login-> complain -> check complain status-> enter complain id | For correct complain id the complain status will be displayed | As expected complain status was displayed | Pass | Verified |
| 17 | Admin login -> complain -> update complain status ->enter complain id -> enter | For correct complain id it will ask for new status and status of that complain will | As expected complain status was updated | Pass | Verified |

| | | | | | |
|----|--|---|--|------|----------|
| | new status | be updated in database | | | |
| 18 | Admin login -> complain -> display all complains | All complains will be displayed with status | As expected all complains were displayed | Pass | Verified |

5.0 UNRESOLVED TEST INSTANCES

| Test Case ID | Summary of Defect | Why not resolved |
|---|--|---|
| While modifying details of the user. | While updating the details if i uses id of another user then that user gets deleted from database | Resolved , updating id will now require verification that another person exists with same id or not. |
| While adding letters to the | In case of dispute in letters database is not able to store multiple dispute cases only shows 1 row with recipient id='Dispute', letterid='DisputeDisputeo' and status='Dispute' | now Dispute letters will also have seperate id , earlier it was not mentioned. Now 2 dispute letters will not have same id. |
| While adding letters to the name of duplicate student. | If multiple user of same name are present in the database, then while adding letter with name of any of the above person any other details as 'NA' it shows segmentation fault. | error was resolved and it will ask to return the letter in this case because no other information has been provided and multiple candidates are there thus letter has to be returned. |
| Found at every places wherever it is asked to input y/n . | In Generate report in letter s report irrespective of the input it always lands to the page where it should have landed for input 'n'. | it was resolved and for y it was same , any thing other than n will for same |
| Found at every places wherever it asked to input non-empty string to continue . | Even asking for non-empty string it accepts even empty string too. | now, just enter has to be pressed to continue ,whether you enter |

| | | |
|---|--|---|
| | | empty or non empty string |
| While updating the status of the complains of same id | If there are multiple complains of same id but while updating the status ,status of only one complain can be updated | earlier it was assumed that a particular member will register one complain on same day so , that's multiple complains were having same id, now it has been corrected that each complain will have a unique id . |
| A special case if inputs are entered as follows in posting the letter | In post letter if sender's name is empty string and contact is also empty string then also it accepts letter. | now in post letter it is necessary to have a nonempty name and non empty contact , otherwise it will not proceed |