Student Fee Management System

Test Report

Version 1.0

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**Version History**

|  |  |  |  |
| --- | --- | --- | --- |
| Version | Implemented By | Date | Description |
| 1.0 | Shivam Nirne And Nikunj Labana | 1-04-2018 | Unit Testing And Software Testing are briefly explained in this document. |
| 2.0 | Vijay Siddharth and Vinay Nagalgaonkar | 9 04-2018 |  |
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# **1.0 Introduction**

## **1.1 Purpose**

The main purpose is to create such a document which can record data which is obtained from the experimental evaluation of the software. This evaluation shows the expected result and actual result that the software gives for particular set of input.This is done in proper manner.Testing is done to minimize the errors in software.

# **2.0 Test Plan**

While testing the software following order will be followed :-

1. Unit Testing

2. System Testing

Unit Testing :-

In this testing each function in the code will be tested separately . All possible sets of inputs will be used to test the function . Expected and actual output will be noted for each function. Criteria to fail/pass the function are also mentioned.

System Testing :-

There are many systems/units in this software such as Mess Fee Payment, Register New Student etc. . These units are tested individually .Set input are used to test and end results are examined .

# **3 Details of Unit Testing**

**3.1 Take User Type**

3.1.1 Taking user type

3.1.2 Features - Whether user is admin or student is taken.If “1” is pressed user type will be admin and if it presses “2” student will be the user type.

3.1.3 Criteria -Input should be integer either 1 or 2 for calling next function.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Set Of Inputs | Actual Outcome | Expected Outcome | Pass/Fail | Description | Verification |
| 3.1.1.1 | 1 | login Interface | login Interface | Pass |  | Verified |
| 3.1.1.2 | 2 | login Interface | login Interface | Pass |  | Verified |
| 3.1.1.3 | 5 | Same Page | Same Page | Pass | Input Should be 1 or 2. | Verified |
| 3.1.1.4 | string | Same Page | Same Page | Pass | Input Should be 1 or 2 | Verified |

**3.2 Take Log In Details**

3.2.1 Taking Log In Details from User

3.2.2 Features - Whether user is giving correct Id & Password or not is checked using data stored in file.This is applicable for both Student and Admin.

3.2.3 Criteria - User should enter correct ID & Password to proceed.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input  ID Password | | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.2.2.1 | correct | Incorrect | Enter correct  details | Enter correct  details | Pass |  | Verified |
| 3.2.2.2 | Incorrect | Incorrect | Enter correct  details | Enter correct  details | Pass |  | Verified |
| 3.2.2.3 | Correct | Correct | Logged In Successful | Logged In Successful | Pass |  | Verified |

**3.3 Take Admin Input :-**

3.3.1 Taking Admin Input

3.3.2 Features :- 1 to 5 options are displayed. If any one among these options is given,corresponding functions will be called.

3.3.3 Criteria :- Input should be among 1 to 5 only. If other integer or string is given this will fail and same function will be executed.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.3.3.1 | 3 | Entered in remove student | Entered in remove student | Pass |  | Verified |
| 3.3.3.2 | 9 | Enter Valid option | Enter valid option | Pass |  | Verified |
| 3.3.3.3 | 1 | Entered in Register  student | Entered in register student | Pass |  | Verified |
| 3.3.3.4 | 2 | Entered in View student | Entered in View student | Pass |  | Verified |
| 3.3.3.5 | shivam | Enter Valid option | Enter valid option | Pass |  | Verified |
| 3.3.3.6 | 4 | Entered in Update details student | Entered in Update details student | Pass |  | Verified |
| 3.3.3.4 | 2fgtdf | Entered in view details | Enter Valid option | Fail | Input is invalid but function is accepting this input. | resolved |

**3.3 Take Student Input :-**

3.3.1 Taking Student Input

3.3.2 Features :- 1 to 5 options are displayed. If any one among these options is given,corresponding functions will be called.

3.3.3 Criteria :- Input should be among 1 to 5 only. If other integer or string is given this will fail and same function will be executed.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.3.3.1 | 3 | Entered in  View Receipt | Entered in  View Receipt | Pass |  | Verified |
| 3.3.3.2 | 9 | Enter Valid option | Enter valid option | Pass |  | Verified |
| 3.3.3.3 | shivam | Enter Valid option | Enter valid option | Pass |  | Verified |
| 3.3.3.4 | 2 | Entered in  Mess fee payment | Entered in  Mess fee payment | Pass |  | Verified |
| 3.3.3.5 | 1typr | Entered in  Semester fee payment | Enter Valid option | Fail | Input is invalid but function is accepting this input. | resolved |

**3.4 Enter Student Detail**

3.4.1 Admin is entering student detail

3.4.2 Features :- Admin is entering student detail and this detail will be stored in file or students database and will be used if further needed. On successful registration number student counter for B.tech and Msc will be incremented.There are separate counters for both.

3.4.3 Criteria - Name should be string and caste and program should be among the provided options , otherwise same function will be executed. Caste has 1 to 3 options. Program has 1 to 2 options.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input  Name Caste Program | | | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.4.1.1 | Shivam | 1 | 2 | Registered successfully | Registered successfully | Pass |  | Verified |
| 3.4.1.2 | Shivam Nirne | 1 | 2 | Registered successfully | Registered successfully | Pass | Only the first name will be written in file | Verified |
| 3.4.1.3 | Shivam | 5 | 1 | Same function is called | Same function is called | Pass | Caste input is not amongst 1to3. | Verified |
| 3.4.1.4 | Shivam | 2 | 5 | Same function is called | Same function is called | Pass | Program input is not amongst 1to2. | Verified |
| 3.4.1.5 | 5 | 2 | 2 | Registered successfully | Registered successfully | Pass | Name will be written 5 in this case. | Verified |
| 3.4.1.6 | Shivam | edfgh | 1 | Same function is called | Same function is called | Pass | String is given instead of int. | Verified |
| 3.4.1.7 | Shivam | 2 | sdfgh | Same function is called | Same function is called | Pass | String is given instead of int. | Verified |

**3.5 See Details**

3.5.1 See Student Details

3.5.2 Features - On the Interface of Admin if admin selects 2 as option ,then details of all students will be shown to admin by reading the student database file.

3.5.3 Criteria - None.

**3.6 Delete Student :-**

3.6.1 Removal of student by Admin

3.6.2 Features - Admin will enter the ID of student he wants to remove , then from database all information that was stored for that particular student.If that particular student does not exist , then Admin is requested to enter correct Id.

3.6.3 Criteria - ID should be valid ,i.e. ID should be there in the file.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.6.6.1 | BT5 | Student is removed and data related to that student will be erased from file | Student is removed and data related to that student will be erased from file | Pass | BT5 is already present as ID in database. | Verified |
| 3.6.6.2 | BT7 | Enter Valid ID | Enter Valid ID | Pass | BT7 is not in File. | Verified |
| 3.6.6.2 | Shivam | Enter Valid ID | Enter Valid ID | Pass | Shivam is present in file , but not as ID , it is Name. | Verified |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input  Option Amount | | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.7.7.1 | 2 | 20000 | Fees of BTech SC/ST student is updated to 20000 | Fees of BTech SC/ST student is updated to 20000 | Pass |  | Verified |
| 3.7.7.2 | 8 | 20000 | Enter valid Option | Enter valid Option | Pass | Option is not amongst 1 to 7. | Verified |
| 3.7.7.3 | rdfgh | 20000 | Enter valid Option | Enter valid Option | Pass | String is given instead of int. | Verified |
| 3.7.7.4 | 3 | erdtfgh | Enter valid  amount | Enter valid  Amount | Pass | String is given instead of int. | Verified |

3.7.1 Updation of fees by Admin

3.7.2 Features- Admin can update fees by selecting option 4 on Admin Interface Handler.In update fees option from 1 to 7 will be shown.This option will differ on whose fees admin wants to update, ex. “1” for updating fees of Btech General/OBc Caste Student.Also the amount that he wants to update is also taken.

3.7.3 Criteria - Option should be integer between 1 to 7 to pass.Also, the amount should be integer.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input  Option Amount | | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.7.7.1 | 2 | 20000 | Fees of BTech SC/ST student is updated to 20000 | Fees of BTech SC/ST student is updated to 20000 | Pass |  | Verified |
| 3.7.7.2 | 8 | 20000 | Enter valid Option | Enter valid Option | Pass | Option is not amongst 1 to 7. | Verified |
| 3.7.7.3 | rdfgh | 20000 | Enter valid Option | Enter valid Option | Pass | String is given instead of int. | Verified |
| 3.7.7.4 | 3 | erdtfgh | Enter valid  amount | Enter valid  Amount | Pass | String is given instead of int. | Verified |

**3.8 Take Input To View Receipt**

3.8.1 Student Will give option to view fee receipt.

3.8.2 Features - This will be on screen when student select 3 on homepage of student. Student have to select “1” to view Semester fee receipt , “2” to view Mess Fee Receipt . As “1” is selected , Name , Caste,ID , program and Semester fees status will be given as output for that particular student. This will be done by Searching that student in File and then reading of the data of that student will be done to display that data.Similarly it will be done for viewing mess fee receipt.

3.8.3 Criteria - Credentials entered should be either 1 or 2 to pass.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.8.8.1 | 1 | Sem fee receipt will be displayed. | Sem fee receipt will be displayed. | Pass |  | Verified |
| 3.8.8.2 | 2 | Mess fee receipt will be displayed. | Mess fee receipt will be displayed. | Pass |  | Verified |
| 3.8.8.3 | 8 | Enter valid Option | Enter valid Option | Pass | Input should either 1 or 2. | Verified |
| 3.8.8.4 | dfgh | Enter valid Option | Enter valid Option | Pass | String is given instead of int. | Verified |

**3.9 Pay Mess Fee:-**

3.9.1 Make mess fee payment .

3.9.2 Features - This will be on screen when student select 2 on homepage of student. It will be checked that whether the student has paid the fees or not by reading the data for that student from file . If has already paid then “You have already paid” will be shown , else amount of mess fee will be shown and student is asked to press “1” if he wants to proceed else any input .

If he presses “1” the mess fee status will be updated.

3.9.3 Criteria - “1” to pay and anything to not to pay.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.9.9.1 | 1 | Mess fees is paid and updated status. | Mess fees is paid and updated status. | Pass | Mess fee is not paid before giving input. | Verified |
| 3.9.9.2 | 1 | Already Paid | Already Paid | Pass | Mess fee is paid already. | Verified |
| 3.9.9.3 | fdgh | Back to Student Homepage | Back to Student Homepage | Pass |  | Verified |

**3.10 take Password :-**

3.10.1 Take Password

3.10.2 Features-This will be on screen when student select 4 on homepage of student.New password is taken as input from student of “8” characters is taken.If it is not of “8” characters then student will have to give new password of “8” characters. Then it is asked to re-enter password. If the re-entered password matches then new Password will be updated in file.If that doesn’t matches password is asked to re-enter until it matches.

3.10.3 Criteria - Password should contain “8” characters.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input  Password Re-entry | | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.10.10.1 | abcdefgh | abcdefgh | Successfully updated | Successfully updated | Pass |  | Verified |
| 3.10.10.2 | sdfghu | trfgh | Re-enter | Re-enter | Pass | Re-entered password does not matches. | Verified |
| 3.10.10.3 | sdfg | sdfg | Re-enter | Re-enter | Pass | “8” characters are not there. | Verified |

**3.11 Calculate Fees for BTech Gen/OBC :-**

3.11.1 Calculate Fees

3.11.2 Features - If the student falls under the category BTech Gen/OBC, then input among 1 to 3 is demanded from student . These option will differ on the basis of family’s income.Ex.below 1 lac etc. According to options different files are there in which fees for that particular is stored. According to options data from these files are read.

3.11.3 Criteria- Input should be between 1 to 3.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.11.11.1 | 1 | Fees for family income below 1 lac is read. | Fees for family income below 1 lac is read. | Pass |  | Verified |
| 3.11.11.2 | 5 | Enter Valid Option. | Enter Valid Option. | Pass | Input should be int bet 1 to 3. | Verified |
| 3.11.11.3 | sdfgh | Enter Valid Option. | Enter Valid Option. | Pass | String instead of int. | Verified |

**3.12 Process Sem Fees**

3.12.1 Sem fees will be calculated and shown.

3.12.2 Features-This will be on screen when student select 1 on homepage of student.When “1” is selected first of all student is identified with help of ID in the database.And in this function according to students caste and program fees is calculated and shown . Student is asked to press “1” if he wants to proceed to payment, else any key.

3.12.3 Criteria - None. In any case it will pass.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test ID | Input | Actual Outcome | Expected Outcome | Pass / Fail | Description | Verification |
| 3.12.12.1 | 1 | Payment is Successful. | Payment is Successful. | Pass |  | Verified |
| 3.12.12.2 | fghj | Back to student homepage. | Back to student homepage. | Pass |  | Verified |

# **4 Details Of System Testing**

In this type of testing each unit of system of a part of software is tested.

**4.1 Register Student :-**

Total Process for registering Student by Admin:-

To select register student admin has to select option “1” which is on Admin Homepage.

takeStudentDetails() function will be called in which student details will be entered by admin , giveUsernamePass() will be called which will generate ID and password for student.To write this data in file registerStudent() will be called and all this data for a student will be written in file.Now whole Registration Process is complete and on pressing any key Admin Homepage will be shown.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1 | takeStudentDetails()  Students Name,Caste and Program will be entered . | Student name ,Student Caste,Student Program  Ex. Parvesh , GENERAL,BTech. | Status : If Caste and program selected are not correct then details will be asked to re-enter.  And these will be stored in temporary variable. | Same as expected. | Pass | This stored data will be used in further process. | Verified |
| 2 | giveUsernamePass() | BTech Counter from Btech counter file and Msc Counter from Msc counter file | Give Unique ID (using counter) and give a random password containing 8 characters. | Same as expected | Pass | This ID and password are also stored in temporary variables and will be used further. | Verified |
| 3 | registerStudent() | none. | The data i.e. stored in temporary variables in previous steps will be written into a file and student will be registered successfully. | Same as expected | Pass | There is a file which contains all students data . | Verified |

**4.2 View Student Details**

Total Process for Viewing Student Details by Admin:-

For this admin has to select option “2” which is on Admin Homepage.

viewStudentDetails() function will be called . This function reads all student objects and prints their data on the screen . Now on pressing any key admin will be back to Homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1 | viewStudentDetails()z | None. | Data from Student Database file will be shown on screen. | Same as expected | Pass |  | Verified |

**4.3 Remove Student**

Total Process for removing Student Details by Admin:-

For this admin has to select option “3” which is on Admin Homepage.

deleteStudent() function will be called, in this function student Id will be taken as Input from Admin.That particular student will be searched in database by Id and all the 7 attributes of that student will be deleted.Now on pressing any key admin will be back to Homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1 | deleteStudent() | Student ID  Ex. BT3 (this Id exist in file) | ID will be searched in file, if it exist already then that student will be erased from database , else valid ID is asked to give. | Same as expected | Pass | File will no longer contain the data related to that student. | Verified |

**4.4 Update Details**

Total Process for Updating Details by Admin:-

For this admin has to select option “4” which is on Admin Homepage.

First of all two admin has to select whether he wants to update session or update fees of a particular program and caste.On selecting update session,updateSession() will be called and in this function in same database file bool of mess fee paid and sem fee paid is made false as well as the session will be incremented by 1 which in Session file .And On selecting update fees, updateFeeDetails() function will be called and in this admin is asked to select 1 among 7 options.These options will differ depending on Caste, program and family income.Admin is asked to give input how much he wants to update.There are files in which current fees of each of these 7 options is stored , it will be updated by the amount entered in these files.Now on pressing any key admin will be back to Homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1. | updateSession() | None. | Student database file will be opened and status of mess fee and sem fee will be made false for all students.And session will be incremented by 1 in session file. | Same as expected | Pass |  | Verified |
| 2. | updateFeeDetails() | 1.Option “5”  Msc Gen/OBC students fees will be updated.  2.amount- 40000  This will be new fees for Msc Gen/OBC stud. | Fees file regarding option selected will be opened and amount in that file will be replaced by amount entered.  If amount entered is negative or it is string then admin is asked to re-enter the amount. | Same as expected | Pass | Corresponding file will be updated. | Verified |

**4.5 Semester Fee Payment**

Total Process for Paying Semester Fees by Admin:-

For this Student has to select option “1” which is on Student Homepage.

When the student has logged in , we have stored his ID which will be used in further processes.

identifyObject() function will be called , in this function Student is identified in file by his ID which is stored already.And his caste, program and ID will be stored in student class temporary variables. takeInputDetails() function , in this function if caste and program of student is GEN/OBC and Btech function will be called in which student is asked to select his family income among three categories.then processSemfee() will be called in this calculateFees() functions for diff caste and program is called and variable named “fees” will be upadted . then it is asked to enter 1 for proceed to payment and enter any integer for cancelling payment if user select option 1 then if student already paid fee then it is shown message “already paid”else updation of sem fee status will be made

and procees completes.Now on pressing any key student will be back to his homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1. | IdentifyObject() | None. | Student will be searched in file and his caste , program is stored in student object. | Same as expected. | Pass |  | Verified |
| 2. | takeInputDetails() | ex.Option “2”  Students family income is bet 1 to 5 lacs.(given students Btech Gen/OBC.) | The selected option will be given as parameter in calculateFees() function of Btech Gen/OBC.  For other students this function doesn’t do any changes. | Same as expected. | Pass |  | Verified |
| 3. | processDetails() | “1” to proceed for payment.  Any other key to cancel payment. | Value of semester fees is calculated for that student and stored in variable  This fees will be displayed on screen..  And on selecting “1” the bool of isSemFeePaid is made true in student database file and payment is done. | Same as expected | pass | Bool of isSemFeePaid is made true in student database file. | Verified |

**4.5 Mess Fee Payment**

Total Process for Paying Mess Fees by Student:-

For this Student has to select option “2” which is on Student Homepage.

When the student has logged in , we have stored his ID which will be used in further processes.

makeMessPayment() is called , in this function mess fee is displayed and asked to select “1” to proceed and any other key to back to student homepage.If Student Selects “1” then upadteMessFeeDetails() function is called in this funnction student is searched in database file by ID and status of mess fee is made true.Now on pressing any key student will be back to his homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1. | makeMessFeePayment() | Option “1” to proceed for payment . | Mess fee is displayed and asked to select “1” to proceed and any other key to back to student homepage. | Same as expected. | Pass |  | Verified |
| 2. | updateMessFeeDetails() | None. | Student will be searched in file and status of mess fee is made true. | Same as expected. | Pass | Status of mess fee is made true for that particular student. | Verified |

**4.6 View Fee Receipt**

Total Process for Viewing Fee Receipt by Student:-

For this Student has to select option “3” which is on Student Homepage.

When the student has logged in , we have stored his ID which will be used in further processes.

takeInputToSeeReceipt() is called , in this function student is asked which receipt he wants to select , Sem or mess . If he wants Sem then he should select “1” and “2” mess fee receipt . After pressing “1” viewSemFeeReceipt() is called , Student is searched in database file by ID and his name ,ID , caste ,program and status of sem fee is printed.After pressing “2” viewMessFeeReceipt() is called , Student is searched in database file by ID and his name ,ID , caste ,program and status of Mess fee is printed.

Now on pressing any key student will be back to his homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1. | takeInputToSeeReceipt() | “1” for Sem Fee Receipt  “2” for Mess fee receipt . | viewSemFeeReceipt() is called  viewMessFeeReceipt() is called  Else if any other input is given student is asked to re-enter. | Same as expected. | pass |  | Verified |
| 2. | 1.viewSemFeeReceipt()  2.viewMessFeeReceipt() | none. | Student is searched in database file by ID and his name ,ID , caste ,program and status of sem fee is printed.  Student is searched in database file by ID and his name ,ID , caste ,program and status of mess fee is printed. | Same as expected. | pass |  | Verified |

**4.8 Change Password**

Total Process for changing his own password by Student:-

For this Student has to select option “4” which is on Student Homepage.

When the student has logged in , we have stored his ID which will be used in further processes.

takePassword() is called , in this function new password is taken and it is asked to re-enter. If these two password matches and are of “8” characters then updatePassword() is called. Else in any other condition password is asked to re-enter.

updatePassword() - in this function database file is opened and students password is replaced with new password.

Now on pressing any key student will be back to his homepage.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Step | Test step | Input | Intended Result | Expected Result | Pass / Fail | Comments | Verification |
| 1. | takePassword() | 1.Sdfgjhab  Sdfgjhab  2.asdfg  asdfg  3.sdfab  txhbc | 1.updatePassword() will be called.  2..Re-enter  3.Re-enter | Same as expected. | Pass |  | Verified |
| 2. | updatePassword() | none. | New password will be updated in file for that student. | Same as expected. | Pass | Database will now contain new password for that student. | Verified |

5 Unresolved Test Instances

All errors are resolved successfully.