**Test plan for MEM**

This document contains the detailed listing of the test cases to be used to be used on Membership Management Software(MEM).

The basic operations present in the software are:

1. Login

2. Member Management

3. Finance

4. Communication

**1. Login**

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| Test case ID | Purpose | Steps | Expected Result |
| 1 | GUI validation | 1. Invoke the application  2. Observe the login window.  3. Observe spelling and the location of all the objects.  4. Enter the data into password field. | 1. Login window displayed.  2. Login window should have Textbox:ID, Password. Buttons: Login, Cancel.  3. All the text & objects should be properly located & spelled. They should follow the logical order.  4. Password should be displayed in encrypted format like '\*\*\*\*\*'. |
| 2 | Valid Login | 1. Enter valid user name & password.  2. Click on Login | User successfully logged in to the  application. After login Calendar and options window and information window should be displayed depending on login users: Treasurer, coach, members. |
| 3 | Invalid User Name | 1. Enter Invalid User Name.  2. Enter valid password.  3. Click on Login. | Error message window displayed with  proper error message. Message may be specific for 'Invalid user name' OR  generalized one as ' Invalid user name OR  password'. |
| 4 | Invalid Password | 1. Enter valid User Name.  2. Enter invalid password.  3. Click on Login. | Error message window displayed with  proper error message. Message may be specific for 'Invalid password' OR generalized one as ' Invalid user name OR password'. |
| 5 | Invalid User name &  Password | 1. Enter invalid User Name.  2. Enter invalid password.  3. Click on Login. | Error message window displayed with  proper error message. |
| 6 | No. of unsuccessful  login | Make the invalid login for 3 with different combinations times. | After 3rd unsuccessful login application  should terminate. |
| 7 | Checking for Calendar | 1. Click each date button.  2. Click left/right button. | 1. Date label should be changed according to date button.  2. Month in the calendar should be changed by left/right button. |

**2.Member management**

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| Test case ID | Purpose | Steps | Expected Result |
| 1 | Checking for paid/unpaid members | 1. Click paid button.  2. Click unpaid button. | 1. paid members list should be displayed in information window.  2. unpaid members list should be displayed in information window. |
| 2 | Coach list | Click coach list button | Coach list should be displayed in an information window according to the date chosen. |
| 3 | Valid Input/Delete coach | Click input/delete button after filling name, phone number, and email address in each text field. | The coach’s name and information should be added in coach list and should be displayed in information window. |
| 4 | Invalid Input/Delete coach | 1. Enter invalid coach data in any field or leave any data field blank.  2. Click input/delete button | Error message window displayed with  proper error message. Message should display that info about the coach was entered incorrectly |
| 5 | Create list of members | 1. Navigate to proper gui segment 2. Create file with members of the class 3. Click create list button | File containing members should be created.This file should be accessible by the program for reading and writing purposes |
| 6 | Valid Add members | 1. Navigate to proper gui segment 2. Fill in required text fields with valid data type 3. Click “Add Member” button | Add Member was clicked, data entered into data fields should be displayed within the text file, along with the UUID |
| 7 | Invalid Add members | 1. User enters data of a member already on the list or entered an invalid data type into the text fields 2. Click “Add Member” button | Error message should prompt user with proper error message. Message should state one of the text fields is empty or has invalid data entered into it |
| 8 | Valid Delete Member | 1. Navigate to proper UI 2. Fill in required text fields with valid data and of a member on the list 3. Click “Delete Member” button | All data related to the member on the file is deleted |
| 9 | Invalid Delete Member | 1. User enters data of a member that does not exist on the list or entered an invalid data type into the text fields 2. Click “Delete Member” button | Error message should prompt user with proper error message.Message should state one of the text fields is empty or has invalid data entered into it |
| 10 | Organize members by amount of times paid | 1. Click “Sort by amount paid” button | Displays sorted list of members by amount of time paid/not paid in text field |
| 11 | Apply discount to members that pay on time | 1. Log into coach/treasurer 2. Select recipients 3. Enter a number for discount percentage in the text field 4. Apply discount | Income statement should be displayed in information window after discounting on the admission fee |
| 12 | Organized via payment but no member is missing a payment | 1. Click “Sort by amount paid” button | Prompt is displayed stating no member is missing a payment and displays list of members sorted in a different fashion, perhaps alpha order or something |

**3.Finance**

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| Test case ID | Purpose | Steps | Expected Result |
| 1 | Valid Input/ Delete revenue | After entering some revenue (numerical value) in the text field, click input/delete button. | Income statement should be displayed in information window after adjusting new revenue.  If no income statement exists, create a new income statement |
| 2 | Invalid Input /Delete revenue | 1. Enter invalid data type  2. Click input/delete button | Error message window displayed with  proper error message.Message should state one of the text fields is empty or has invalid data entered into it |
| 3 | Valid Input/delete expense | After entering some expense(numerical value) in the text field, click input/delete button. | Income statement should be displayed in information window after adjusting new expense. |
| 4 | Invalid Input/Delete expense | 1. Input invalid data type  2. Click input/delete button after writing only the name of the expense in the text field. | Error message window displayed with  proper error message. Message should state the text field is empty or has invalid data entered into it |
| 5 | Create yearly list to log each month’s profit to compare changes in revenue/expenses | 1. Create file to keep track of monthly revenue and expenses | File to log monthly profit should get added.This file should be accessible for reading and writing purposes |
| 6 | Compare revenue and expenses | 1. Click button to display file containing the monthly revenue and expenses | File containing monthly revenue and expenses should be displayed within a textbox of some sort.  Revenue and expenses should be clearly labeled |
| 7 | Create list to keep track of unpaid expenses | 1. Navigate to proper gui 2. Add valid information in textfield 3. Click button to create file with necessary info | File should be created that is used to keep track of unpaid expenses |
| 8 | Invalid creation of file regarding finances | 1. Create file that already exists or enter invalid data type when creating the file 2. Click create file button | Error message should prompt user with proper error message. Message should appear telling user the file already exists or data was misentered. |
| 9 | Invalid file editing | 1. Enter invalid data type when editing file or wish to delete something not within the file 2. Proceed to commit changes | Error message should prompt user with proper error message |

**4.Communication**

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| Test case ID | Purpose | Steps | Expected Result |
| 1 | Communicate to members about practices | 1. Log in as coach 2. Enter message user wishes to send regarding an upcoming class 3. Enter recipient(s) info 4. Click “Send” button | Message regarding future practice sent to all selected recipients. Message should delivered to sendmail running on the host. |
| 2 | Invalid recipient data entered | 1. User enters invalid data within the recipient field or recipient chosen does not exist 2. Click “Send” button | Error message showing which recipient does not exist within the members file. |
| 3 | Sign up and pay for classes | 1. Login as member 2. User finds class they wish to attend 3. User pays for class through payment method of some kind 4. Click “Register for class” button | A confirmation message should be sent to the user that they have successfully signed up for the class  The treasurer and coach should receive notification of the transaction along with any info regarding the member who signed up and for what class |