# **Testing of the Project**

Report and status of testing of various components is listed here

## Overview

- Login Page: Tested and working as expected
- Student Homepage: All services funtional
- Apply Leave form (for Staff, Prof, HOD, Dean, Dir): Fully Functional
- Office: Fully Functional
- Leave approval/decline portal (for Prof, HoD, Dean, DPPC): Fully functional

For details about components and forms, refer to documentation

# Login Page

This is the starting point of the application

## Components status

• All components tested and functional

#### Past issues

None

# **Student Page**

Covers: All services for student users

## Components status

• All components tested and functional

#### Past issues

• Change password option

**Problem:** When Changing password 2 times in a row, can't use the new passowrd in the 2nd attempt

**Steps to recreate:** Open a student profile > Edit profile > Change Password once > Try to change password once again using the new password set up in previous step

Cause: The old password is fetched when the student homepage form is loaded, it wasn't updated after changing password Fix: The hash value stored in the variable *password* has been set to update when the password updates

Status: Fixed

· Adding ordinary leaves

Problem: If applied for 2 consecutive ordinary leaves totaling to more than 5 days, despite telling the user that it's not allowed a leave application is pushed to database

Also when this situation occurs, the testing for 'OL' being less than 5 is breached through and even extremly long Ordinary leaves (well over 20 days) are pushed to database

Cause: There seems to be missing cases in the If Else chain used in Sub NAApplyButton\_Click

Fix: No fix as of now

Status: Pending -> FIXED Comments (Siddharth) OL can't span for more than 5 days in one go, but total can be greater than 5. How were you able to save OL with 20 days? kindly give the steps with exact dates. thanks

**Steps To Recreate:** Apply for an ordinary leave > Apply again, the starting date this time should be immediately next to the ending date last time, select the ending date with a 15 days gap and apply

Mediacal, Academic and Parental Leaves

**Problem:** For extra long leaves, even if the user declines to apply the application is pushed to DB

Steps to recreate: Open student homepage > Apply > Try to Apply for academic leave of 1 month > When propmted wheather want to continue or not, choose 'No' > The application will still be pushed to DB

Cause: The boolean variable getting the response always evaluates to true Fix: Changing all instances of

```
Dim ans As Boolean = MessageBox....
```

То

```
Dim ans As DialogResult = Message...
```

And changing all corresponding If-Else conditions with

Status: Fixed

• Visual Feedback when applying ordinary leave

**Problem:** When longer than permitted Ordinary Leaves are applied, although there's no application submitted, the user gets to visual response

Steps to recreate: Student Homepage > Apply > Ordinary leave > Dates more than 5 days

apart and not adjacent to other leaves

Cause: Missing message box

Status: Being worked on by siddharth -> FIXED

## **Leave Apply Form**

This works as:

- 1. Complete functionality of Director and Staff
- 2. One Component of Prof, Dean, HoD

### Components status

• All components tested and functional

#### Past issues

 Any date combination works Problem: Leaves show error when needed but are pushed to DB

Steps to recreate: Open leave apply form > Attempt an obviously wrong date combination > Apply

Cause: Missed cases when using Flags to test leave application

Fix: Using "Exit Sub" to stop attempting to apply whenever illegal combination is

encountered Status: Fixed

• DB is not tested for presence of duplicate leaves

Problem: Same leave can be applied any number of times

Steps to recreate: Open leave apply form > Apply a valid date combination > Apply >

Attempt an overlapping date combination > Apply

**Cause:** TO check in database for overlapping **Fix:** Add a database comparision for overlap

Status: Fixed

#### Office Form

Covers:

Full functionality of Office

### Components status

• All components tested and functional

#### Past issues

Can't update user password

**Problem:** Message box with 'Syntax error' pops up whenever a user passowrd is updated **Steps to recreate:** Open office form > Open update user form > Attempt to update password

Cause: Password is a reserved keyword of the access database engine, using it as column name can cause unintended results

Fix: Changed column name in guery from

field name to [field name]

Status: Fixed

• Forms don't clear up

**Problem:** The 3 forms to add/delete/update users don't clear up once used. Makes it cumbersome to use them multiple times as every field needs to be manually cleared **Steps to recreate:** Open office form > use one of the forms to successfully add/delete/update users > close them and they still have values from last time

Cause: No instructions to clear fields

Fix: Add the necessary code after the success messageBox is shown

Status: Fixed

• Connection not closed after deleting user

**Problem:** Attempting any connection to database after making a failed attempt in deleting user gives connection not closed error

Steps to recreate: Open office home > Delete user form > Attempt to delete a user that doesn't exist > close form and try somehting that needs DB connection (Eg. load a username info)

Cause: If a delete user attempt gets a non-existent user as input, it directly breaks out of Sub without closing conections

Fix: Close connections before exiting the Sub

Status: Fixed

• Updating user, no checks

**Problem:** Unlike the add user form, there are no checks to see what is being entered where,

letters can go to phone and fields can go empty

Steps to recreate: Office home > Update user > Attempt an invalid update > confirm by

loading user data on office home form

Cause: No checks on input Fix: Add checks for all inputs

Status: Fixed

• Student lastname zero length error

**Problem:** When attempting to make a new student user, lastname field can't be zero length exception is thrown

Steps to recreate: Office homapage > add user > Student user > Fill each field except Last Name > Apply > error along the lines of "Student.LastName cannot be a zero length string" Cause: It may be a required value in database

Fix: Editing the forms in database and remove required from lastname field in Students form

Status: Fixed

### **Rest Users Form**

#### Covers:

- 1. Full functionality of DPPC
- 2. Part functionality of Prof, HoD and Dean

## Components status

• All components tested and functional

#### Past issues

None