

User Manual

Login

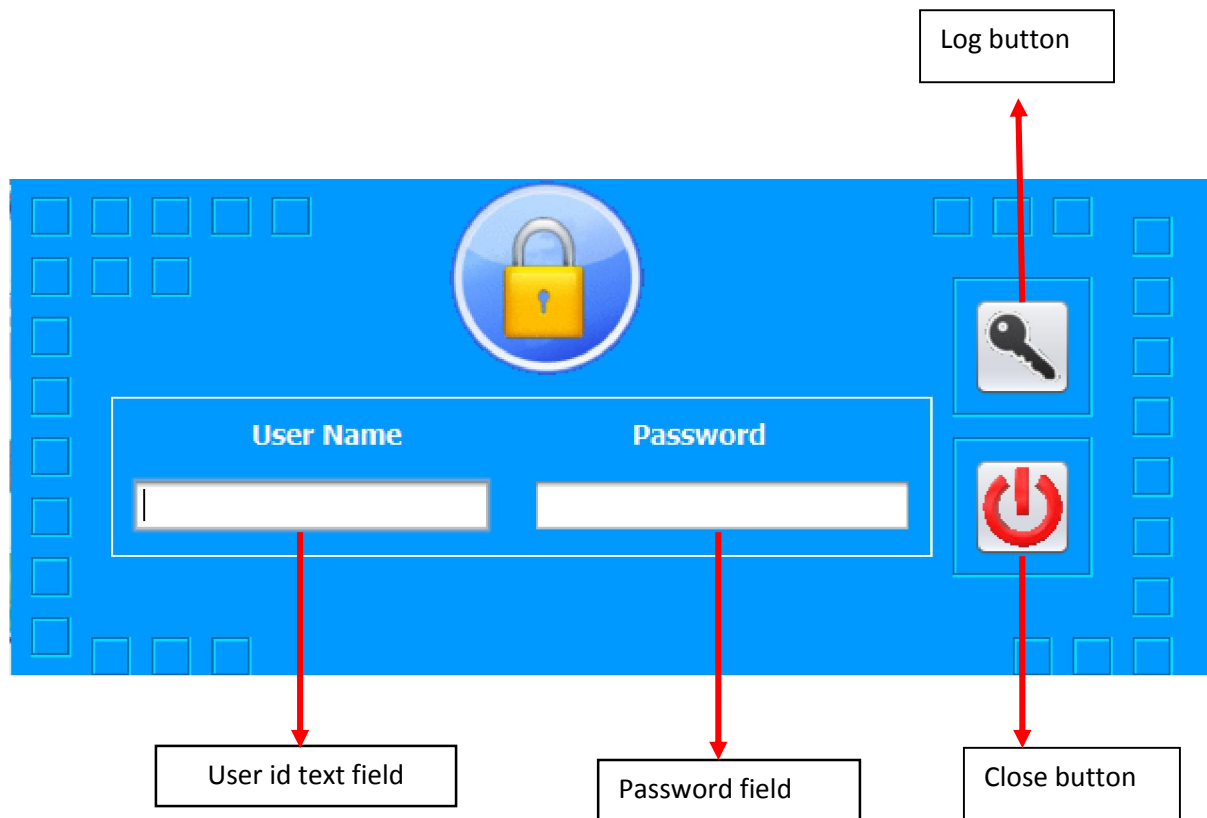


Figure 1: User Manual-Login Window

- Correct user id and password should be entered within three attempts, to log into the system. After entering user id and password, log button should be clicked.
- If incorrect user id is entered, message box will be displayed. After clicking “OK” button of the message box, cursor will be moved to the user id text field, allowing re-enter the correct one.

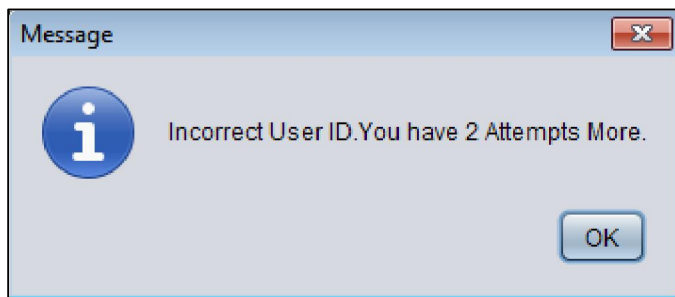


Figure 2: Message Box-Incorrect User ID

- If user enters incorrect password, message box like below one will be displayed. “OK” button of that message box should be clicked and then cursor will be moved to the password field, allowing user to re-enter the correct one.

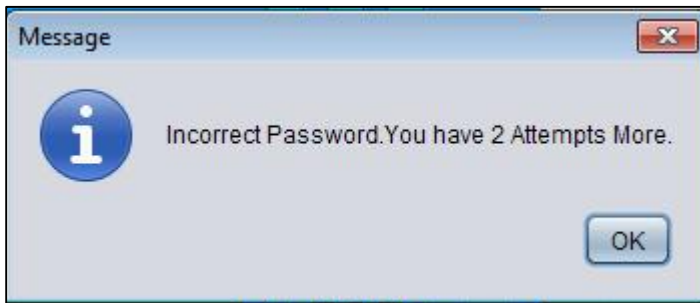


Figure 3: Message box-Incorrect Password

- If user fails to enter correct user id and password within three attempts, automatically system will exit, after displaying a message.

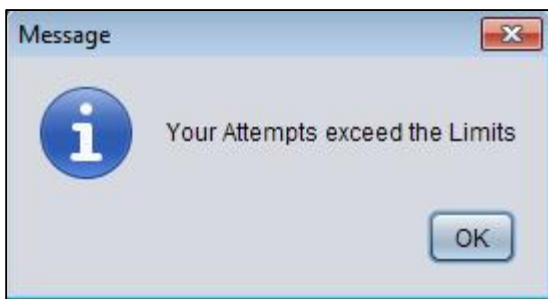


Figure 4: Message Box-Attempts exceed the limits

- When user id text field is empty and log button is clicked, below message box will be displayed, prompting user to enter user id.

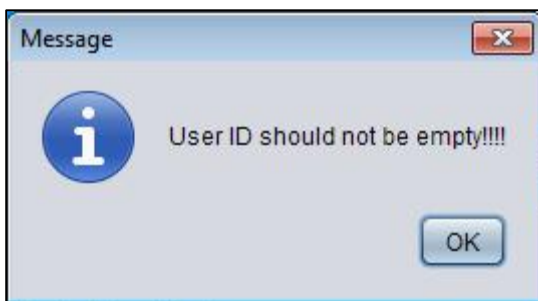


Figure 5: Message Box-User ID field empty

- If password field is empty, when clicking the log button, below message box will be appeared, allowing user to enter password.

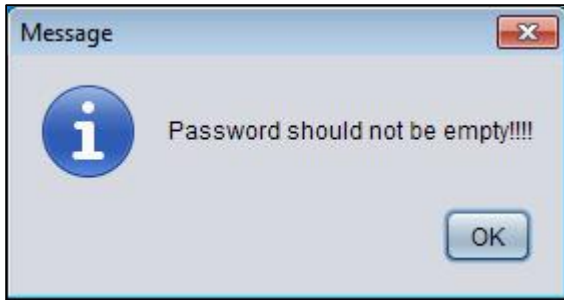


Figure 6: Message Box-Password field empty

- Cursor movement between user id field and password field can be done using “Enter key” or “Left” and “Right Arrow keys”.
- Clicking “Close button” user can exit from the system.

Home Window

- First window that comes after logging to the system is Home window/interface.
- In home window, there can be found few menu options in the menu bar. They are File, Login, Reports and Help.

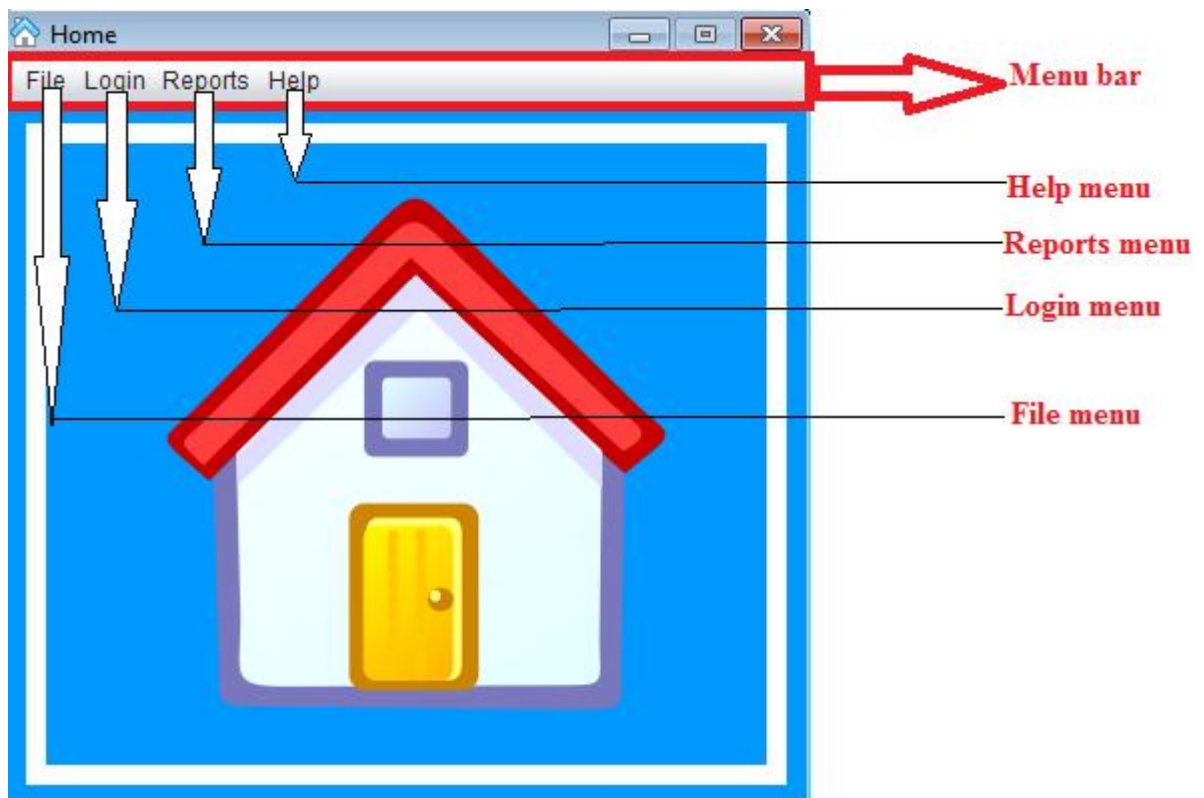
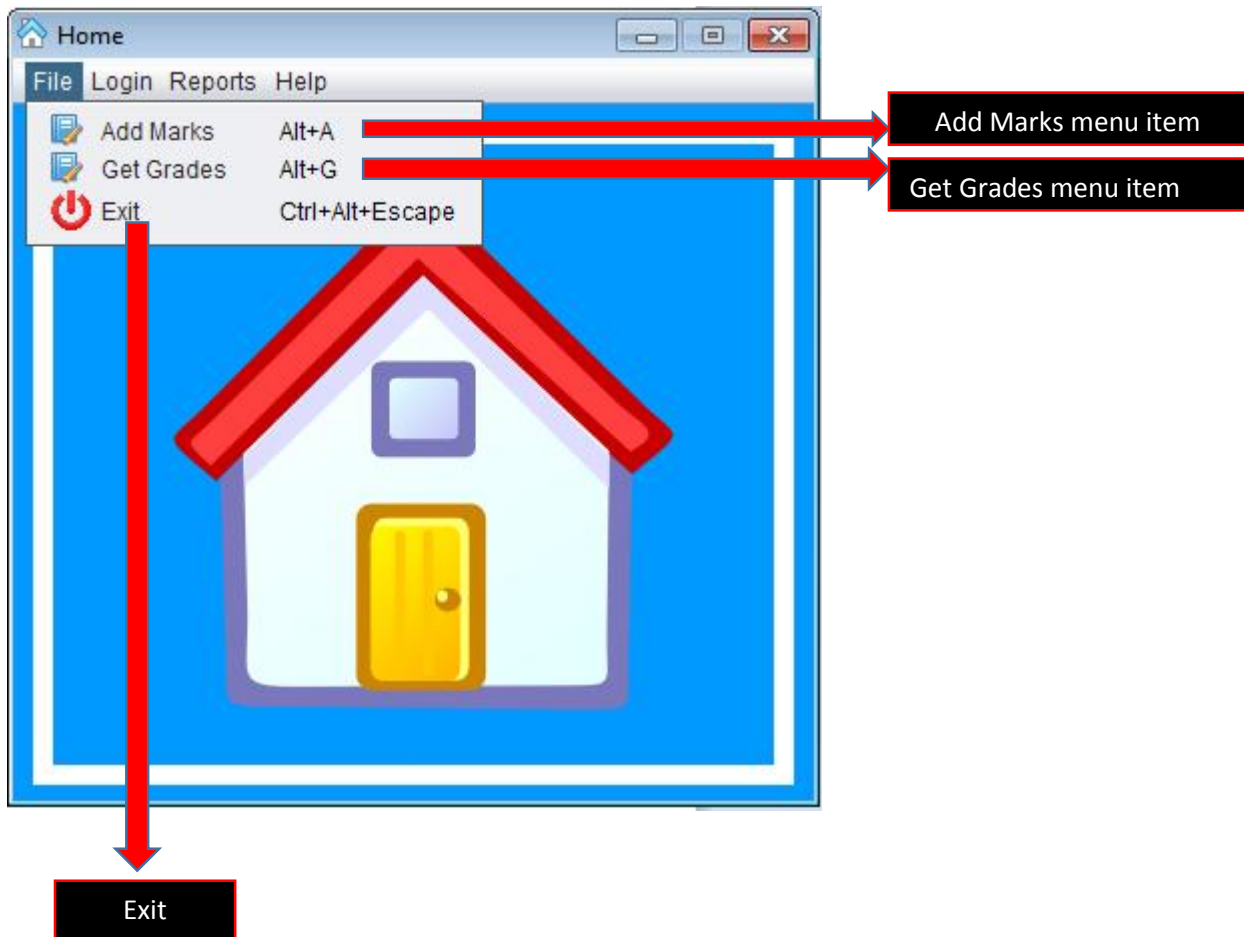


Figure 7: Home Window-Menu bar

- When each menu is clicked from the menu bar, a list of menu items is appeared. When click on any menu item from the list, Home window will be disappeared and new window will be appeared.

File Menu



Below table shows which window will be appeared, after clicking each menu item from the list?

Note: Without clicking on menu item, short cut keys besides the menu item can be pressed to open below windows.

Menu	Menu item	Window name
File	Add Marks	AddMarksUI window

	Get Grades	GradeUI window
	Exit	No window will appear. System will exit.

Login menu



Figure 8: Home Window-Login menu

Below table shows which window will be appeared, after clicking each menu item from the list?

Note: Without clicking on menu item, short cut keys besides the menu item can be pressed to open below windows.

Menu	Menu item	Window name
Login	New User Registration	NewUserRegistration window
	Change Password	ChangePassword window

	Delete User	DeleteUser window
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Table 1: Login menu-menu items

Reports Menu



After clicking Grade Report menu item from the list, GradeReportUI window will be appeared and Home window will be disappeared.

Note: Without clicking on menu item, short cut keys besides the menu item can be pressed to open new the window.

Help menu



Figure 9: Home window-Help menu

Below table shows which window will be appeared, after clicking each menu item from the list?

Note: Without clicking on menu item, short cut keys besides the menu item can be pressed to open below windows.

Menu	Menu item	Window name
Help	User Manual	Home window will not be disappeared. User manual pdf file will be opened.
	About	About window.

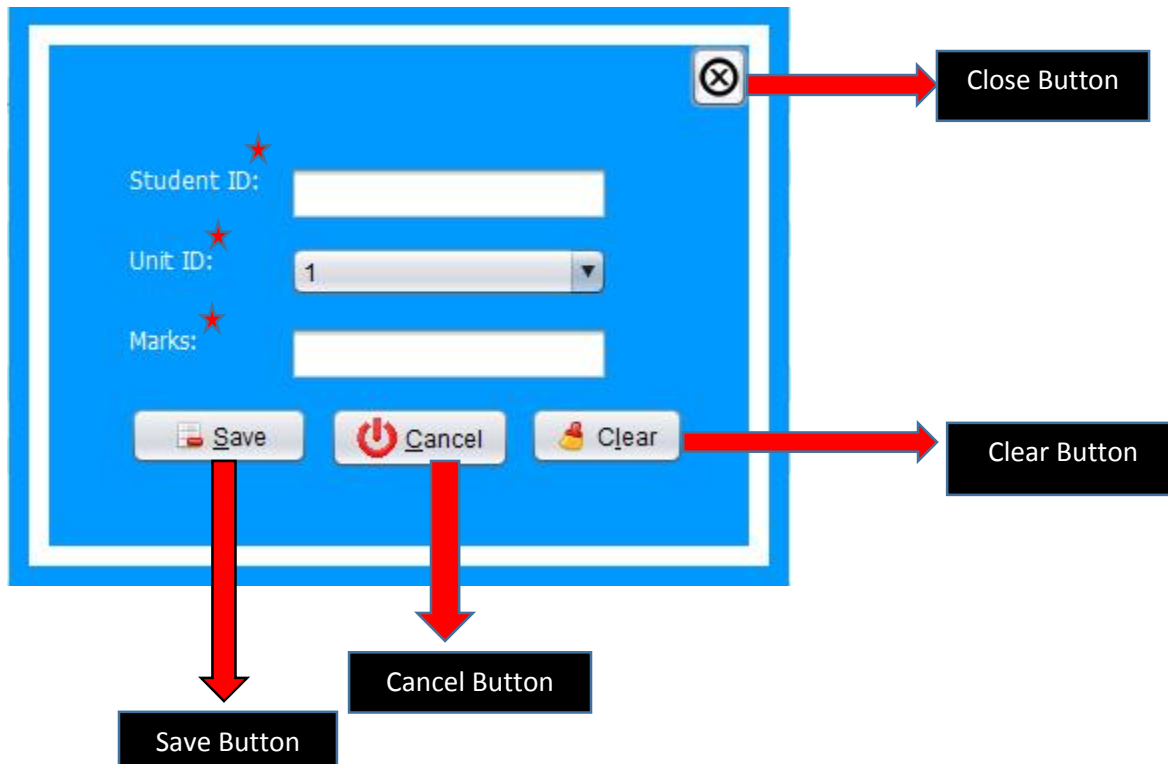
According to user level of user some options will be disabled. Example: when user level is normal user below grey colour options are disabled.



Figure 10: Demonstration access privileges

AddMarksUI Window

This window is for adding new student mark to the database.

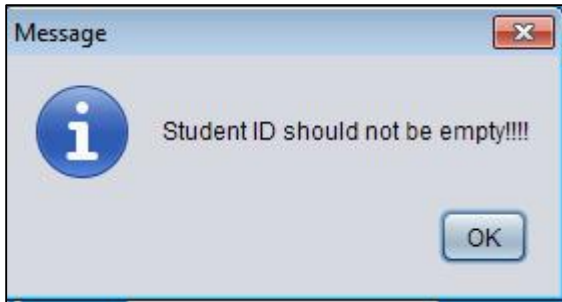


Add New Mark

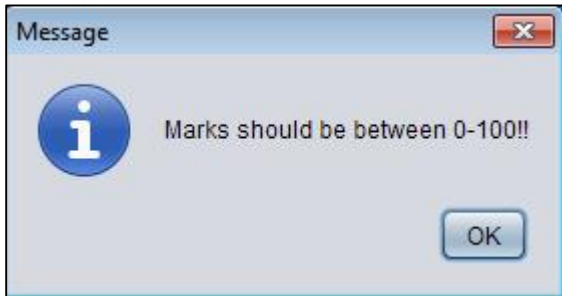
- To add new marks data, all the text boxes should be filled compulsorily. After filling required data, data can be added by clicking the “Save” button.
- Note: ★ symbol denotes mandatory fields.
- Feedback-If data is added successfully, message box will be appeared showing "New Grade is Added Successfully". If data is not added, message box will be appeared, displaying error message.

Message Boxes that can be appeared when saving new mark

1. Message box that prompting user to fill some text field. Ex:



2. Message box that prompting user to enter valid marks to the text field.



Refresh/ Clear data

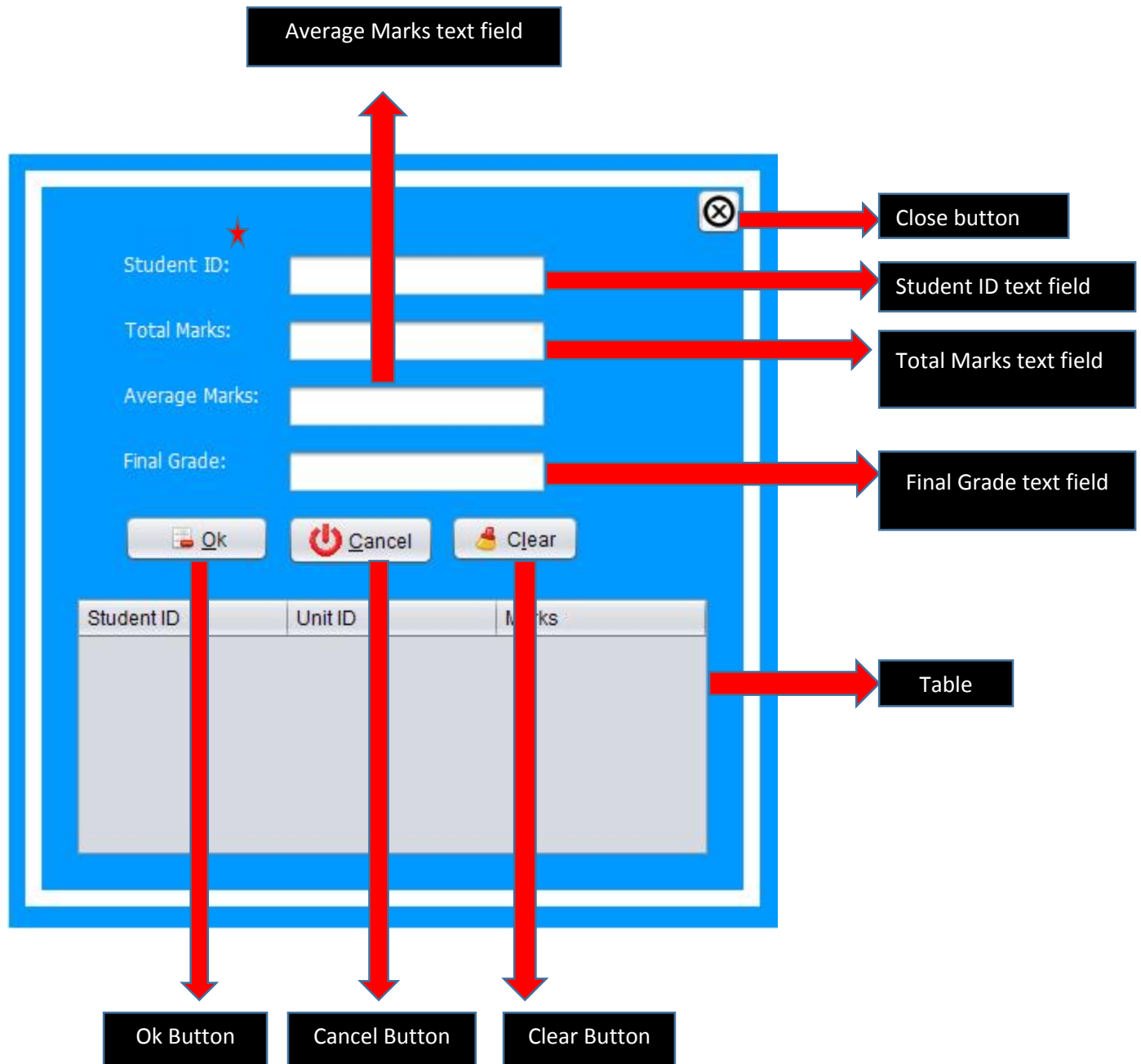
By clicking “Clear” button, all the details in the window (in text boxes, table) can be erased.

Close the window

Close button or Cancel button should be clicked.

GradeUI Window

This window is for retrieving grade for each student.



Retrieving Grade

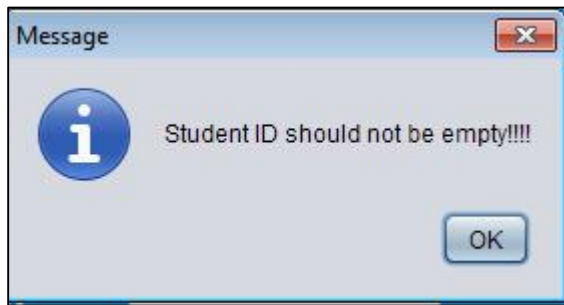
After filling Student ID text field with valid student id, Ok button should be clicked on. Then All the records (including student id, unit id and marks) relevant to the entered student id will be loaded in to the below table. Apart from that total marks of that student will be set into the Total

Marks text field, Average mark will be set into the Average Marks text field and final grade will be set into the Final Grade text field.

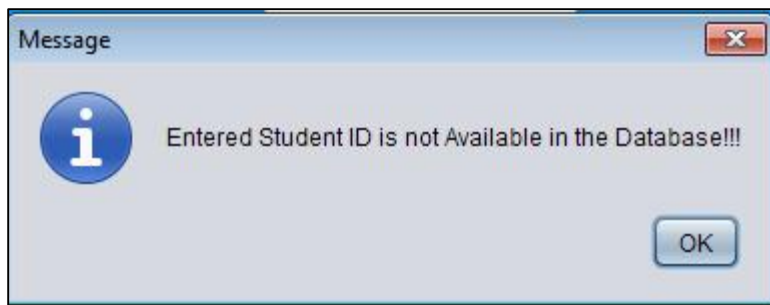
Note: ★ denotes the mandatory field.

Message Boxes that Appeared When Retrieving Grades

1. Message box that prompting user to fill Student ID text field.



2. Message box that displaying entered Student Id is not valid one.



Refresh/ Clear data

By clicking “Clear” button, all the details in the window (in text boxes, table) can be erased.

Close the window

Close button or Cancel button should be clicked.

New User Registration Window

This window is used for registering new user.

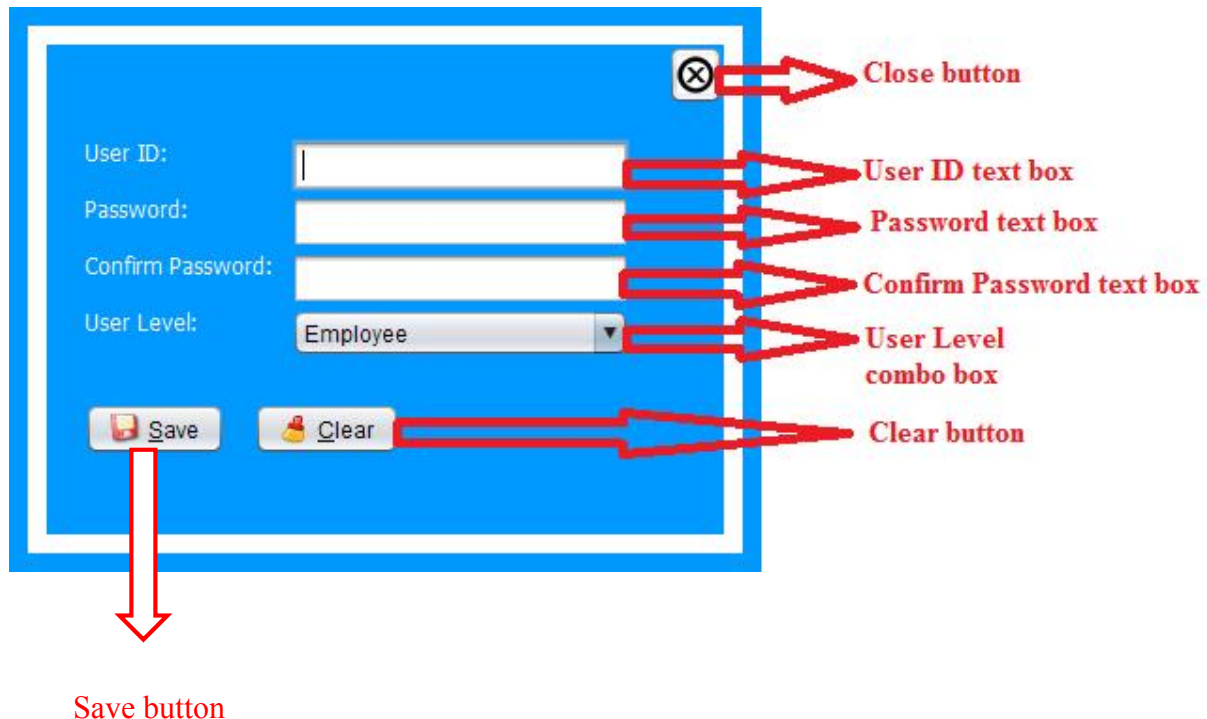


Figure 11: New User Registration Window

Register new user

- User Name/User ID should be provided in “User ID” text box. Password should be typed in “Password” text box. The same password (that typed in Password text box) should be typed in “Confirm password” text box also. User level should be selected from “User Level” combo box.
- After providing all the required data, “Save” button should be clicked on.
- Note:
 - All the text boxes should be filled before clicking on “Save” button. If not, message boxes will appeared, prompting user to provide required data. Sample message box has been provided below.

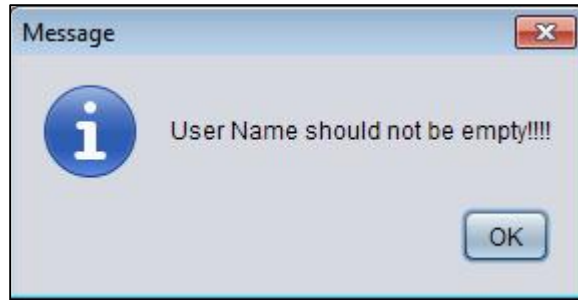


Figure 12: Message Box-User Name should not be empty

- If passwords in “Password” text box and “Confirm Password” text box do not match together, below message box will be appeared.



Figure 13: Message Box-Password Confirmation failed

- Passwords must contain following characteristics
 - ❖ Password must contain more than 8 characters
 - ❖ Password must contain both lowercase and uppercase letters.
 - ❖ Password must contain digits as well as the special characters.

If entered password does not match with this password policy, message box with error message will be appeared.

Refresh/ Clear data

By clicking “Clear” button, all the details in the window (in text boxes) can be erased.

Close the window

Close button should be clicked.

Change Password Window

This window is used for changing current password.

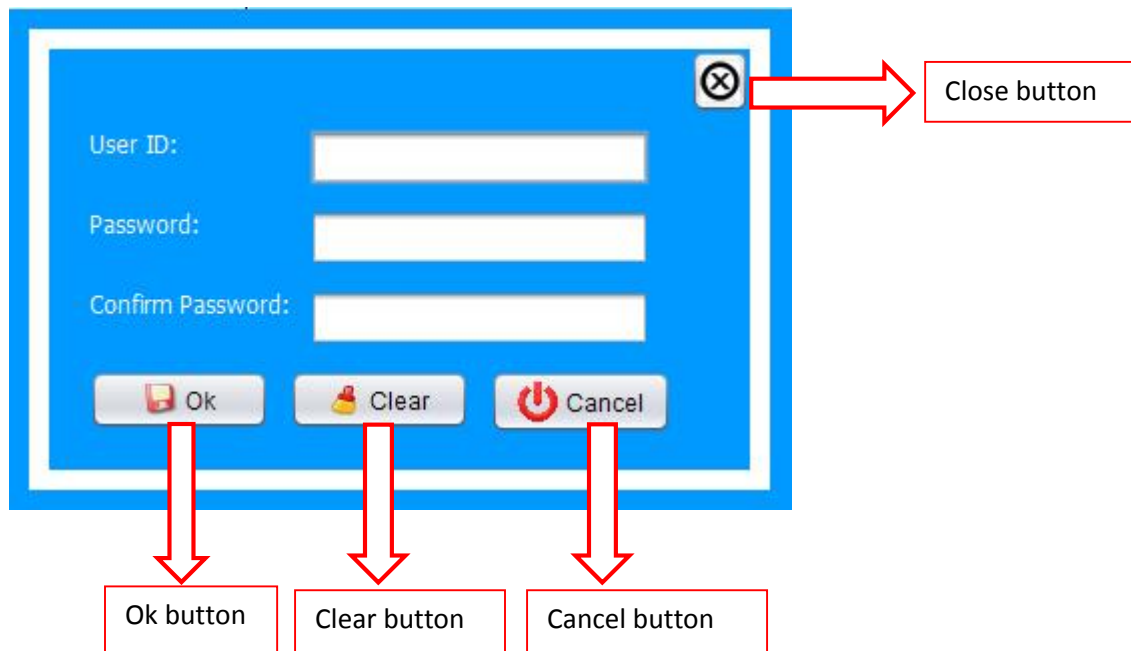


Figure 14: Change Password Window

Change Password

Operation

- After filling all the text boxes, “Ok” button should be clicked on.
- Note:
 - All the text boxes should not be emptied, when clicking on “Ok” button.
 - Passwords in Password text box and Confirm Password text box should be matched together.
 - Password should contain minimum 8 characters and it should contain uppercase letters, lowercase letters, digits and also special characters.

Feedback from System

If password is changed successfully--→message box will be appeared, displaying success message.

If password is not added-----→message box with error message will be appeared.

Refresh/ Clear data

By clicking “Clear” button, all the details in the window (in text boxes) can be erased.

Close the window

“Close” button or “Cancel” button should be clicked.

Delete Existing User Account

This window is used for deleting existing user account.

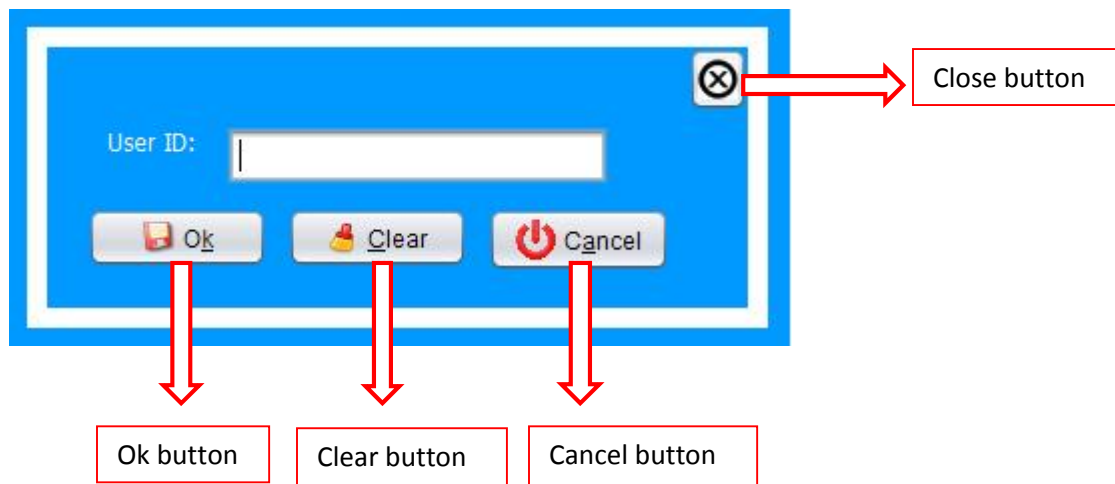


Figure 15: Delete Existing User Account Window

Delete user

After entering user id in text box, “Ok” button should be clicked on.

Feedback from System

If account is deleted successfully--→message box will be appeared, displaying success message.

If account is not added-----→message box with error message will be appeared.

Refresh/ Clear data

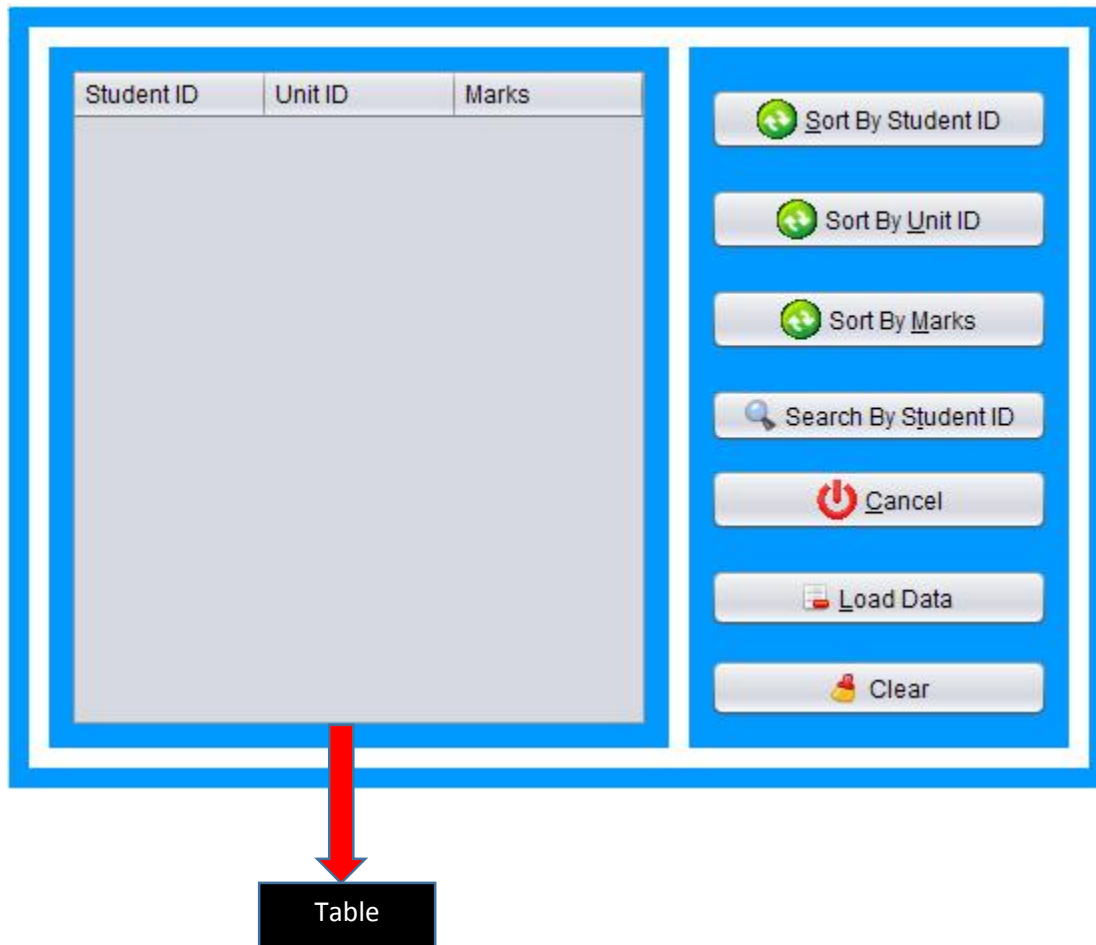
By clicking “Clear” button, all the details in the window (in text box) can be erased.

Close the window

“Close” button or “Cancel” button should be clicked.

GradeReportUI Window

Report generating facility is provided with this window.



To Load All the Records from the Database

Load Data button should be clicked on.

Sort/Order All the Records According to the Student ID

Before sorting, all the records should be loaded into the table. So first "Load Data" button should be clicked on and then "Sort By Student ID" button should be clicked on. Then all the records will be ordered (ascending order) according to the student id.

If sorting button is clicked on before loading data into the table, error message will be appeared.



Sort/Order All the Records According to the Unit ID

Before sorting, all the records should be loaded into the table. So first “Load Data” button should be clicked on and then “Sort By Unit ID” button should be clicked on. Then all the records will be ordered (ascending order) according to the unit id.

If sorting button is clicked on before loading data into the table, error message will be appeared.

Sort/Order All the Records According to the Marks

Before sorting, all the records should be loaded into the table. So first “Load Data” button should be clicked on and then “Sort By Marks” button should be clicked on. Then all the records will be ordered (ascending order) according to the marks

If sorting button is clicked on before loading data into the table, error message will be appeared.

Search specific Student Marks records

Operation

Click on “Search By Student Id” button-----→Enter student id in “Input” dialog box-----→Click on “OK” button in “Input” dialog box

Feedback from System

If entered student id is available in the database, message box will be appeared displaying entered student id is found and then all the records relevant to that student id will be loaded into the table. If entered student id is not available in the database, message box will be appeared displaying entered student id is not found.

Refresh/ Clear data

By clicking “Clear” button, all the details in the window (in the table) can be erased.

Close the window

“Cancel” button should be clicked.

About Window

This window shows brief explanation (including hardware and software requirements) about software.



Close the window

By clicking on “Close” button, window can be closed.

Common Things for all the interfaces/windows

- Note: There are some underlined letters in the buttons. Without clicking on buttons action can be performed by moving cursor on each button and then pressing ALT+underlined key.
- Movement among text boxes can be done using “Enter” key and also “Up” and “Down” arrow keys.

FAQ

Installation Issues and how to resolve

1. Can this application be installed in any machine?

Yes, this software can be installed in any machine with Java SE Runtime Environment 8

2. Which operation systems are compatible with this software?

Windows XP sp3 or higher (including Windows Server 2008, Windows Vista, Windows Vista Service Pack 1, Windows 7, Windows 8, Windows 8.1) (32 bit/64 bit)(minimum requirement). Windows 7/Windows 8/Windows 8.1 (32 bit/64 bit) is recommended

Login issues and how to resolve

3. Why can't I log into the system?

- Check whether the user id and password are correct.
- If it is still unable to log into the system, contact assistance directly through this email- Virajee.hiranthika@gmail.com.

4. If I forget password, how can I reset it?

- By informing administrator, it can be have new password. By using Change Password window administrator can change the password, by giving user id.

5. How can I create new user account?

- By informing administrator, it can be created new user account. By using New User Registration window administrator can register new user to the system, by saving user id, password and user level.

6. Is it possible to delete existing user account?

- Yes. Through Delete User window it can be done. But only the administrator can do it.

Data security

7. Is the application secure?

- Data that are submitted, are secure. Unauthorized access has been restricted through implementing proper login and user access level.

Report generating facility

8. Is there the facility of generating reports?

- Yes, GradeReportUI window provide that facility.

Data Maintaining Issues and how to resolve

9. Why are error messages coming when try to click on “Save” button in AddMarksUI window?
 - Check whether the entered Student id and unit id are already saved in the database. When user tries to enter existing student id and unit id again, error message will be appeared.
 - Check whether there is any empty data fields that is required to fill.
 - Check whether the entered marks is between 0-100.
10. Why error messages are coming when try to click on “Ok” button in GradeUI window?
 - Check whether the entered student id is available or not. Example: When user enters student id which is not in the database, this error message will be come.
 - Check whether the Student ID text field is empty.
11. Why are errors are occurred when try to click on any sort button in the GradeReportUI window?
 - Check whether the data have been loaded into the table or not before sorting. If not error message will come.