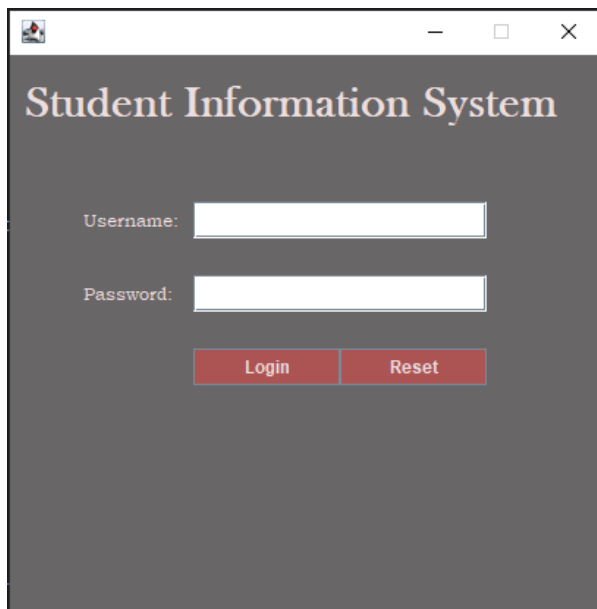


## Student Information System Code Documentation

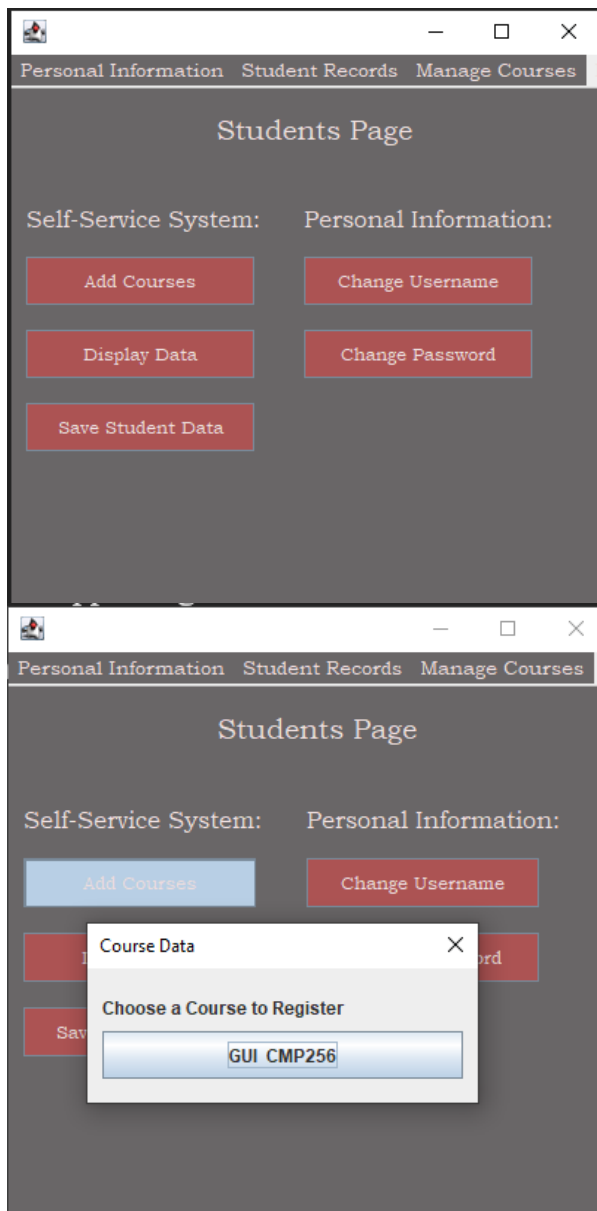
This program is a student information system that includes students, instructors, and administrators. Students can add courses that are available by instructors, they can display their data, they can save their data to a text file, and they can change their username and password. While Instructors can display their records and their course records, add courses, change grades, read course data from text file, and change their username and password. Lastly Admins can do all functions that students and instructors can do except changing grades of students.

### 1- Login Page

A screenshot of a web browser window displaying the login page of the Student Information System. The window has a title bar with standard minimize, maximize, and close buttons. The page has a dark gray background. At the top, the text "Student Information System" is displayed in a large, light-colored serif font. Below this, there are two input fields: "Username:" followed by a white text box, and "Password:" followed by a white text box. At the bottom of the login section, there are two red buttons with white text: "Login" and "Reset".

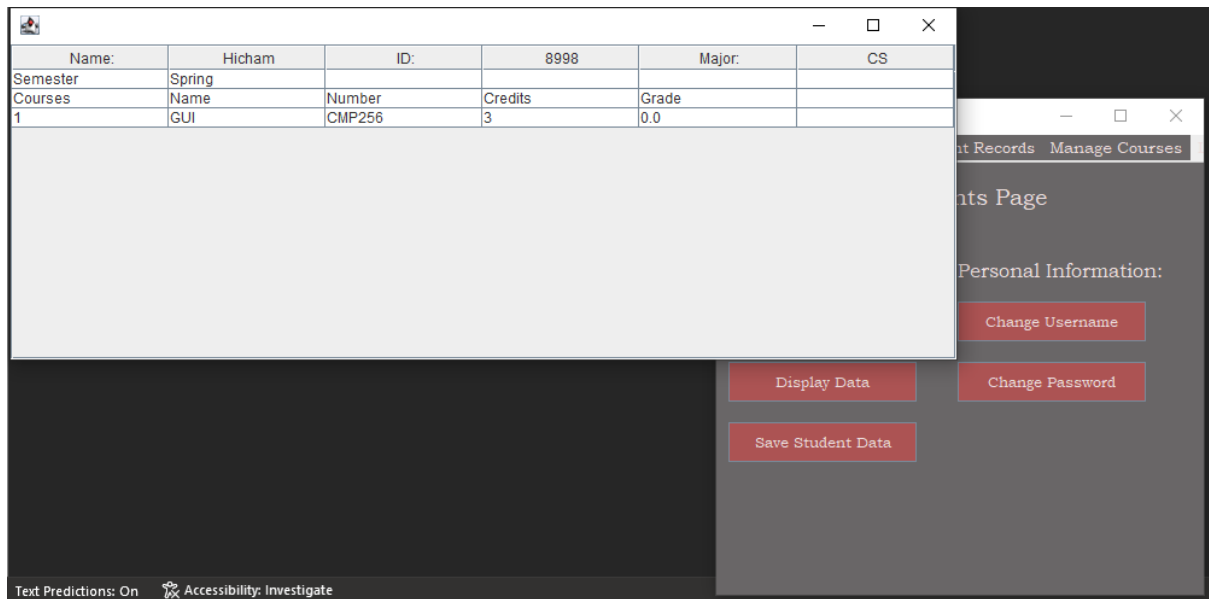
When running the program, you will first get this Login page where the user should enter his/her credentials to enter the page they are assigned to. Where students, instructors, and admin all have their own page.

## 2- Students Page

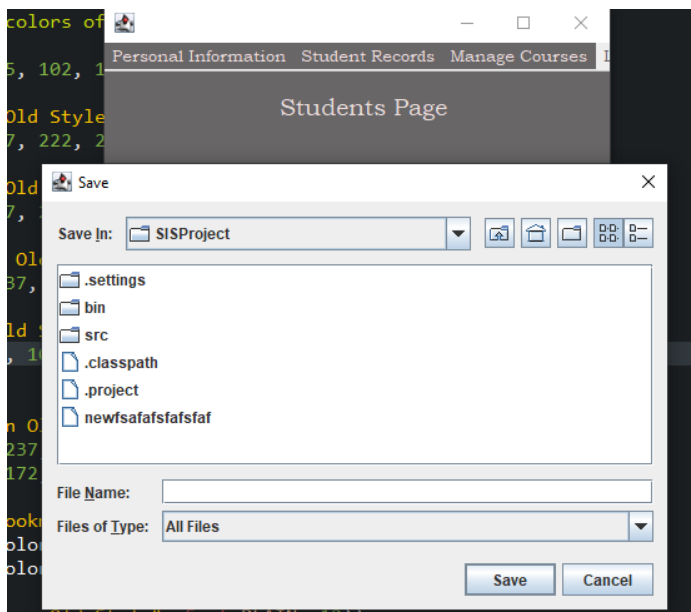


When a student login using his username and password, they will get this page. In this page 5 buttons are appearing in the frame with different functionalities.

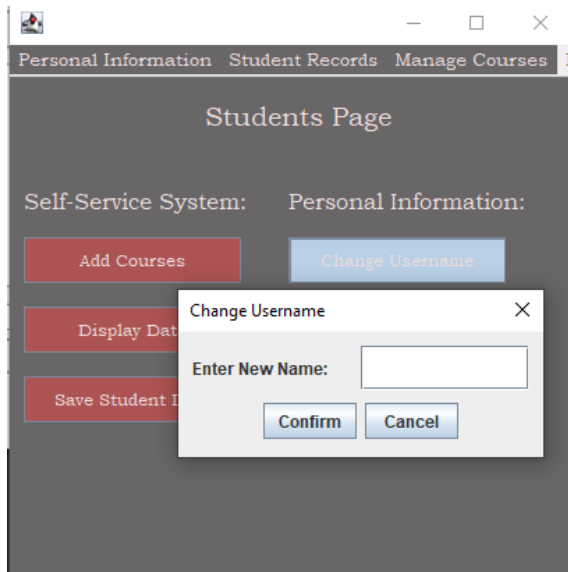
When a student clicks the add courses button, he is presented with all available courses to register from. Instructors must add courses first for students to register in them. If a student tries to register twice in the same course he will encounter an error telling him he already registered in the course



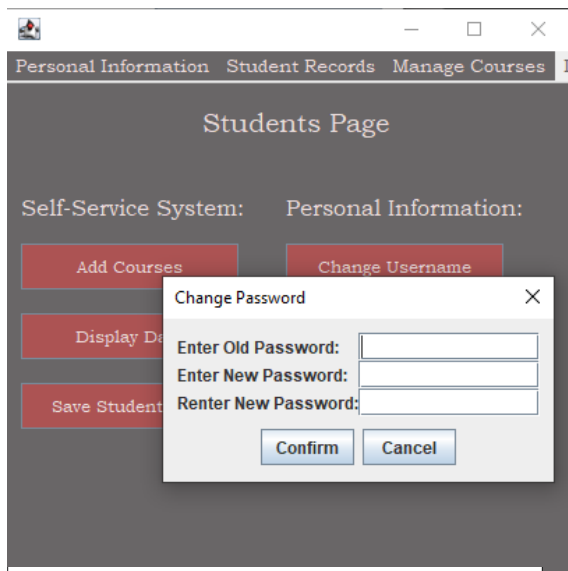
When the student clicks on Display Data it shows him all his personal information, and the courses he is registered in as shown above.



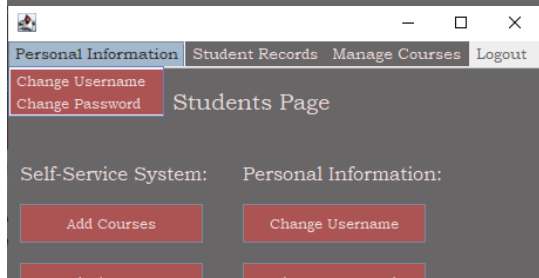
When Save Student Data Button is clicked a pop up tell the user where he wants to save the data then saves his data into a text file in the desired place he wants to save it in



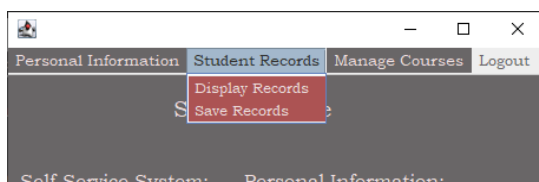
Change Username button when clicked shows a pop up that lets the user changes his user name



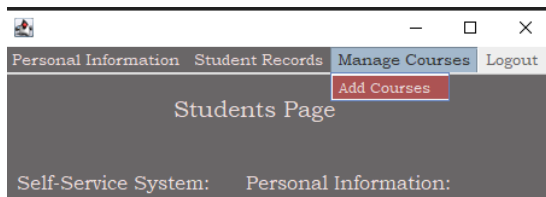
Like the change Username button, the Change Password button displays a pop up to the user that allows him to change his password, but he must enter the old password and enter the new password twice and match it in order to change his password



The first menu is Personal Information which lets the user change his username and password, it functions the same way as the buttons.



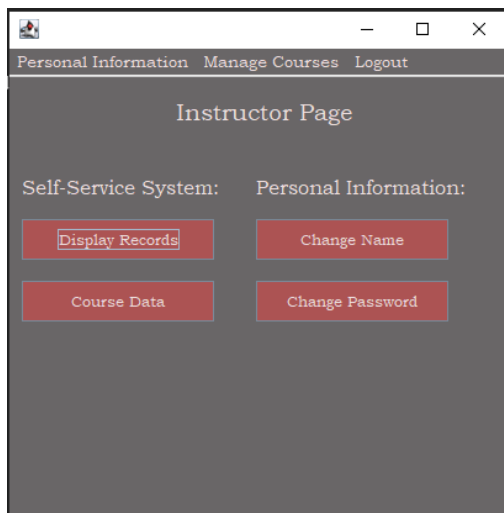
The Student Records menu allows the student to display and save his/her records, just like the buttons.



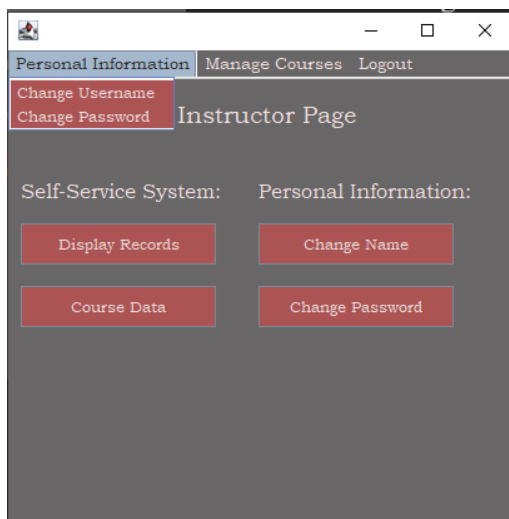
The Mange Courses menu allows the student to add courses, just like the button.

Finally, the Logout menu in the menu bar allows the student to logout of his account and sends him back to the login page of the SIS.

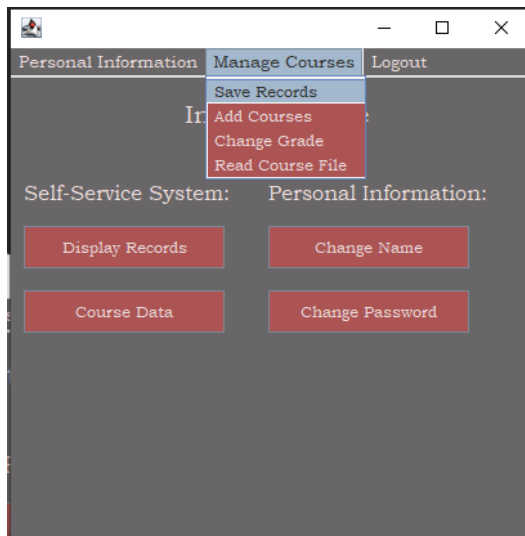
### 3- Instructors Page



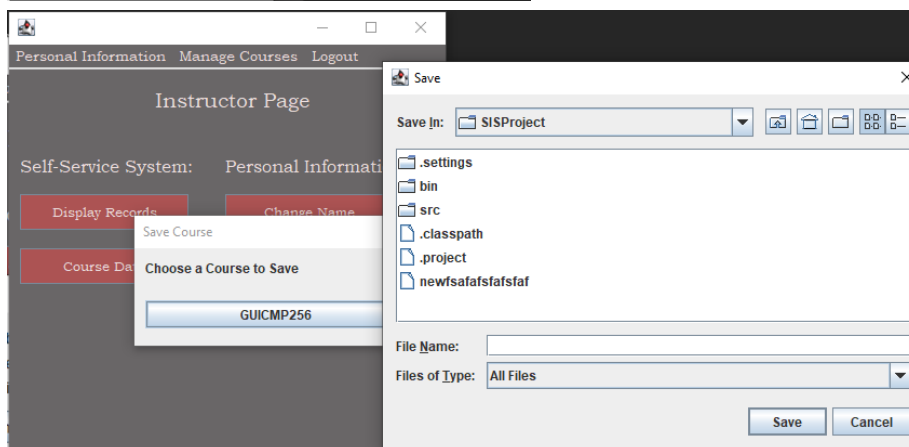
When Instructors login using their credentials, they are shown this page where they have 4 buttons and 3 menus.



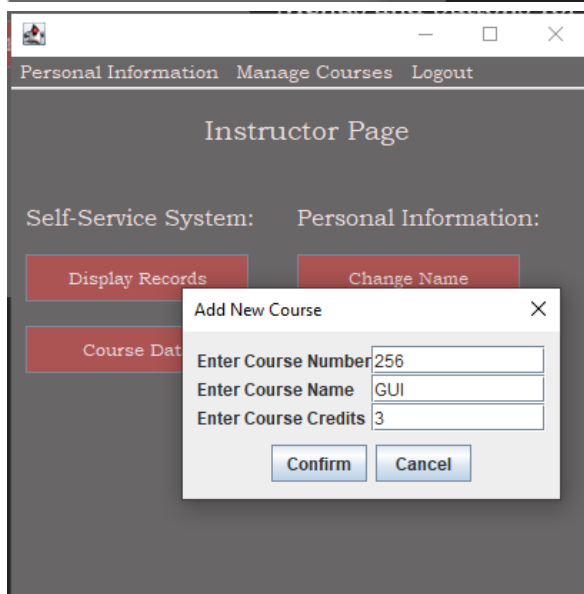
For the personal information buttons and menus they work in the same way as the students page, where it lets the user to change his/her username and password. Menus and buttons for personal information functions in the same way.



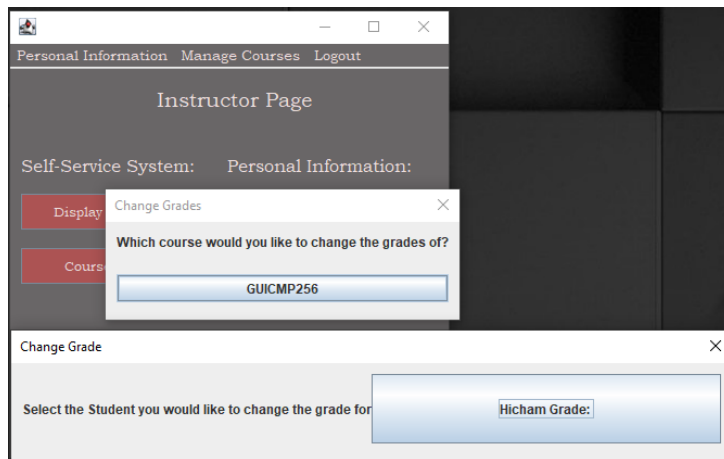
For the manage courses menu it shows the instructors 4 different functions he/she can do.



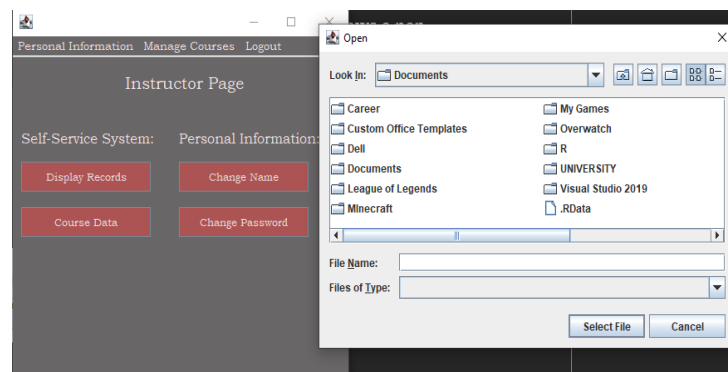
The first menu allows instructors to save his courses data like shown in the picture



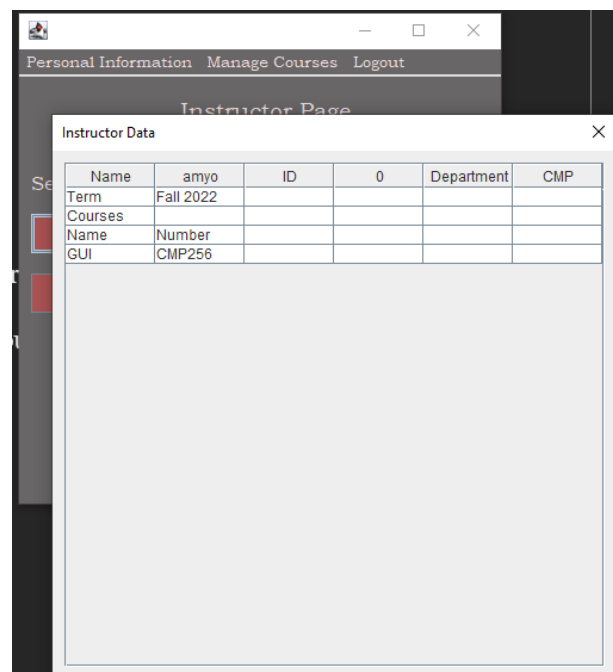
The second menu item allows the instructor to add courses through a pop up, where he need to enter the course information. Then students can register in courses he/she added through this menu item.



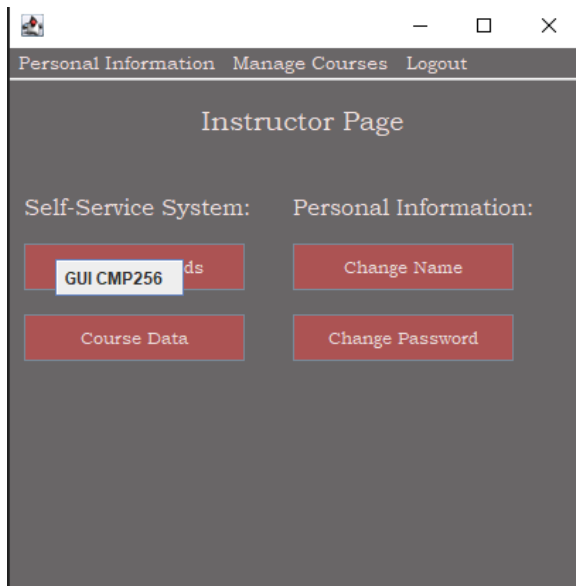
The change grade menu shows a pop up to the instructor where he can choose the course he/she want to change grade for, then choose the student he/she want to change his/her grade



The Read Course File allows instructor to read course information through a text file.



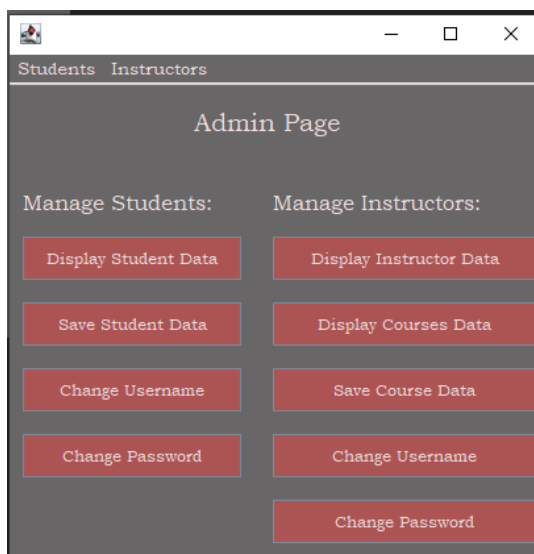
While the button Display records shows the instructor data along with the courses, he/she are offering in the semester.



The course data shows a pop up menu where the instructor chooses which course he/she want to see the records for and display all records of the course with students' IDs, names, and grades.

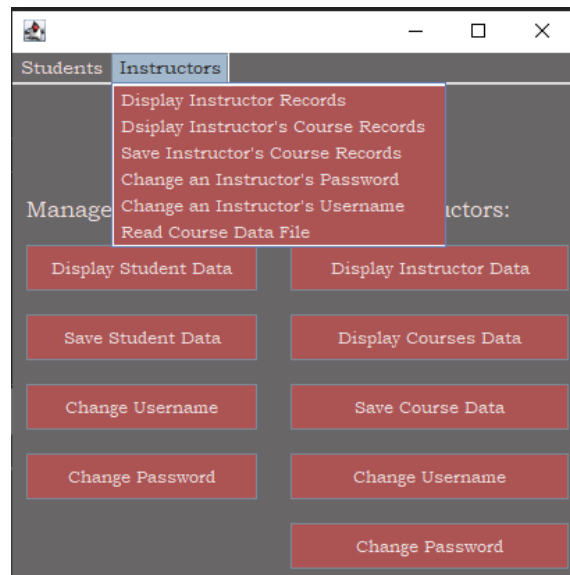
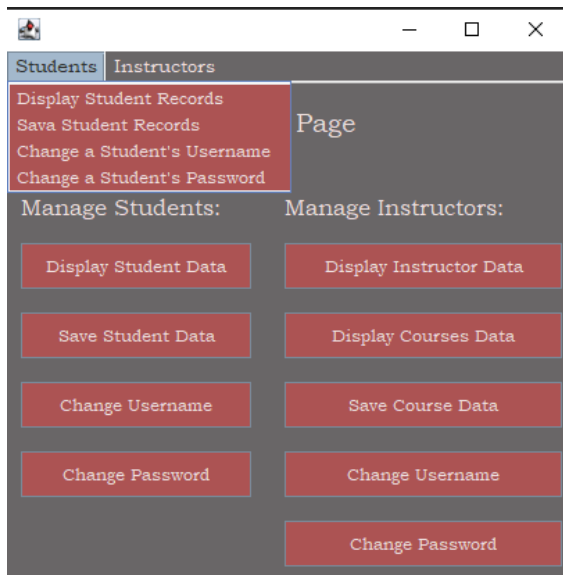
And the logout button here works the same way like in students.

#### 4- Administrator Page



When an administrator enters his/her credentials it shows him this page where it has all the students and instructors functionalities through buttons and menus, except changing grades of students





These are the menus available for the admin where he can display and save students data and change their personal information. While for the instructor he/she can display instructors' records and their courses records as well as save them, he/she can change an instructor's username and password, and he can read a course data file for instructors.