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CSCB20H3 - Intro to Databases & Web Appli, Winter 2021

## Assignment 3 Report

1. Features we had working (\*: not in the assignment requirement but we did extra work)

(a) Common parts

i. Login:

A User can login as long as he/her have a valid username and password that exists in our database. They are encouraged to sign up an account by clicking on "sign up" button if they do not have one. After entering the username and password and clicking on "Login", the user will either informed an error about username or password, or get the information stored in session and get accessed to CSCB63 course website.



After logged in, the user will see the B63 website (based on A2), a welcome message on the heading and different links like "grade", "feedback", "setting" depending on whether the user is a student or an instructor.

ii. Sign-up:

Users can go into the sign-up page from login page after clicking the "Sign up" button. The first thing a user should select is register as 'Student' or 'Instructor'. To create a new account, the user are required to enter at least username, password, first name and last name. Some of the fields are restricted (eg. Password must be between length of 6 to 18 characters). Finally, the user must select at least one of the lectures check-boxes to complete the process of sign-up.

After a student user clicked "register" button, they will either informed an error to complete or fix the error caused by the input or an message that tells the student user the registration is successful.



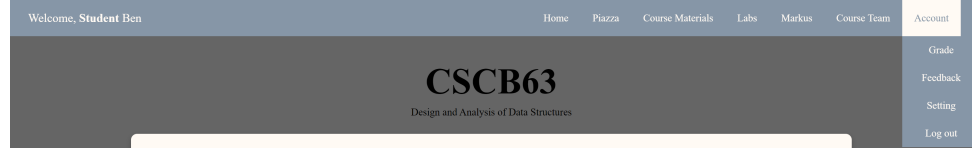
iii. Logout:

Users can logout their accounts by clicking the "logout" button in top right drop-down list under "Account". The action will let the user logout from the website, clear the session and

put the user back to login page.

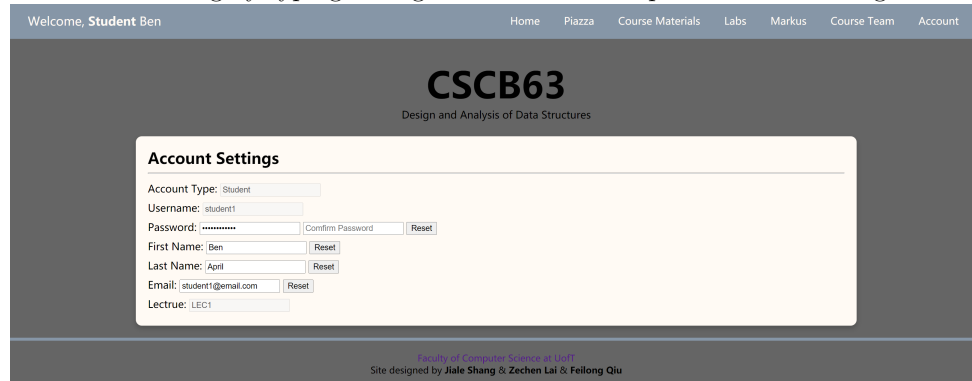
iv. Welcome message:

After a user login to the course website, the user will see a corresponding welcome message always on the heading like "Welcome, Student/Instructor (firstname)"



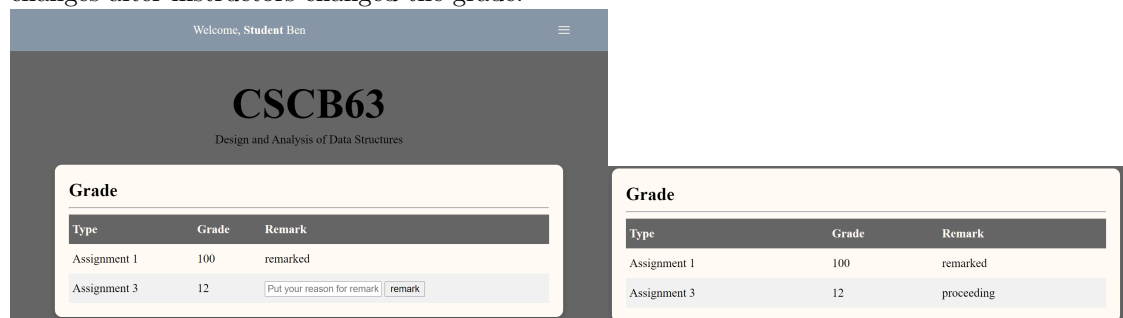
v. Account setting\*:

We create a new section called 'Account Setting' in order to let the users view and reset their settings. Users can see their account type, username, first name, last name, email and the lecture they have selected. Among these settings, they can reset their first name, last name and email. Besides, users can also reset their password, but no one can check the password in the section. All of the setting cannot be reset to nothing except for email. Users can delete their email setting by typing nothing or 'None' in the input box and clicking 'Reset' button.



(b) Student users

- i. Grade: Student can see his/her grades listed in a div table when click on "grade" button under "Account" button after login.
- ii. Remark: Student can request a remark for a specific grade by entering the remark reason and then clicking on submit button next to that grade on grade page, and also see remark status changes after instructors changed the grade.



- iii. Feedback: For feedback, students can see a page with all the feedback questions on it. They can upload their feedback by choosing the professor, entering any message in the textarea and clicking the 'Submit' Button. Those textarea left blank will not be uploaded. Besides, we set a limit of 255 characters in case of someone upload a too long feedback. We also use a for loop to display all the questions in the feedback, so that it can support any number of

questions.

The screenshot shows the 'Anonymous Feedback' form for CSCB63. The form is titled 'Anonymous Feedback' and has a sub-header 'CSCB63 Design and Analysis of Data Structures'. It contains four text input fields for feedback questions, a 'submit' button at the bottom, and a footer note 'Site designed by Jiale Shang & Zhenhe Lei & Felling Qiu'.

Anonymous Feedback

Instructor to send the feedback: Anna Juri(Instructor1) ▾

What do you like about the instructor teaching?

What do you recommend the instructor to do to improve their teaching?

What do you like about the labs?

What do you recommend the lab instructors to do to improve their lab teaching?

submit

Site designed by Jiale Shang & Zhenhe Lei & Felling Qiu

(c) Instructor users

- i. Grade: After an instructor user logged in and clicking on the drop-down item "Grade" button under the "Account" button on menu, the instructor will see all students' grades of his/her classes only.

The instructor can also search for some specific grade by filling in the input boxes above Students Grade table and then click on the "search button".

The screenshot shows the 'Student Grades' page for an instructor. It features a search bar with 'username' and 'Assignment 1' dropdowns, a 'search' button, and a 'refresh' button. Below the search bar is a table with columns 'Student', 'Type', 'Grade', and 'Remark'. The table contains three rows of student data. At the bottom, there is a 'Template Changes' section with input fields for 'username', 'type', and 'grade', and buttons for 'add to Temp' and 'submit changes'.

Student Grades

username Assignment 1 ▾ grade search

refresh

Student	Type	Grade	Remark
student1	Assignment 1	100	Remarkd remove
student1	Assignment 3	12	Unremarkd remove
student3	Assignment 1	1	remove

Template Changes

Enter a grade of your student: username type grade

add to Temp submit changes

Student	Type	Grade
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The instructor can always rerender the page to see new changes (by students and by other instructors) by clicking on the "refresh" button.

- ii. Feedback:  
Each instructor can see all the feedbacks the students given to him in a table-designed page. The instructor can only receive the feedbacks sent to him but not other feedbacks. Besides, they cannot know which student send these feedbacks.
- iii. Changing/Entering/Deleting grades:  
Deleting a grade in database and in Student Grade table can be done by clicking on "remove" button next to that specific grade.  
There two ways to changing/entering grades. First, clicking on the grade cell in the Student Grade Table, changing that value directly, and applying that change by clicking somewhere else. (Instructors may first search for the row they want, since flask will rerender the page.) If the value is not integer from 0 100 or is empty, the grade won't change.

Or, adding changes into a Template Changes table by clicking on "add to Temp" and edit the database and render them at one time by clicking on "submit changes".

We set restrictions(e.g. students must be in the instructors' class) on these inputs and also set corresponding error messages. In addition, when the teacher clicks on the input box, he will see the options of his students and all the current assignment names(above the line) in db. We used a combination of 'input' and 'datalist' so that instructors can also create new assignment by entering a type that is not in current db.

When the "remove" button on a row is clicked, the row will be removed from temp changes table.

- iv. Remark: The instructor can choose to view only the remarking grades by clicking on the "Remark" button on the heading of "Student Grade Table" on grade page. And by clicking that button again, the instructor will go back to the origin grade page and see grades with all remark status again.

When the mouse moving over the red text "Unremark" next to each grade that requesting a remark, the drop-down content of remark reason will show in the cell.

2. Features we could not get completed

Basically, We has completed all the features required in "B20Assignment3.pdf" and "DeliverablesAndRestrictions.pdf". However, we think that there is still room for improvement on our CSCB63 website in the future.

3. We have carried out a fair and equal division of work to ensure that everyone has worked around 33% of the assignment and the difficulties of the tasks assigned to every one are similar.

The database structure was discussed and built by the three of us. Login, sign-up, logout parts are worked by Feilong Qiu. Grade pages of students' side and instructors' side, welcome info after login are worked by Jiale Shang. Account setting, and feedback pages of students' side and instructors' side are worked by Zechen Lai.