# TWD :: PHP ASSIGNMENT 02

OBJECTIVE Use PHP and MySQL to create a database table administration interface.

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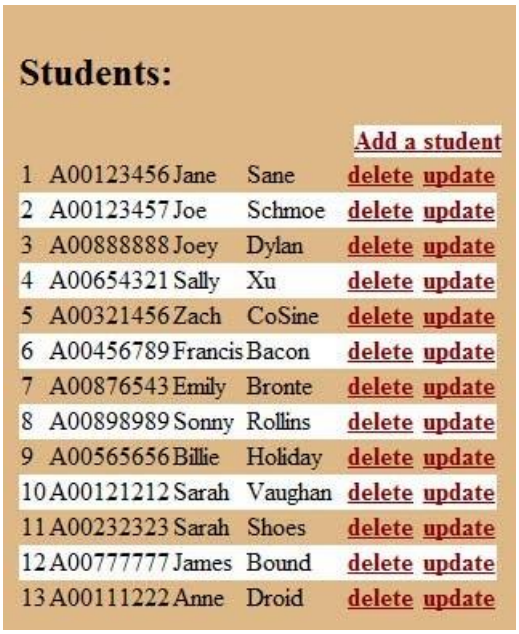
REQUIREMENTS A sample of this assignment is available at: **http://bcitcomp.ca/twd/assignment02_sample/**

You will write a web application that allows a user to administer the students table on the bcit database. The user will need to be able to view the current state of the table, as well as add, delete or edit a record.

Write a PHP page that displays the entire students table as an HTML table, one record per row. Alternate the background color of each row. Include an "Add Student" link somewhere near the table. Include two additional data cells per row, one containing a "Delete" and the other a "Update" link. The screenshot below shows an example of how it might look:



**Students:**

| | | | | | |
|---|---|---|---|---|---|
| | | | | | Add a student |
| 1 | A00123456 | Jane | Sane | delete | update |
| 2 | A00123457 | Joe | Schmoe | delete | update |
| 3 | A00888888 | Joey | Dylan | delete | update |
| 4 | A00654321 | Sally | Xu | delete | update |
| 5 | A00321456 | Zach | CoSine | delete | update |
| 6 | A00456789 | Francis | Bacon | delete | update |
| 7 | A00876543 | Emily | Bronte | delete | update |
| 8 | A00898989 | Sonny | Rollins | delete | update |
| 9 | A00565656 | Billie | Holiday | delete | update |
| 10 | A00121212 | Sarah | Vaughan | delete | update |
| 11 | A00232323 | Sarah | Shoes | delete | update |
| 12 | A00777777 | James | Bound | delete | update |
| 13 | A00111222 | Anne | Droid | delete | update |

The Update and Delete links should send record-specific information via a GET query string to the script(s) responsible for updating and deleting from the database (see the shared FTP server for an example of using the query string).

MORE on next page…

**Functional Features**

Write script(s) for handling each operation:

- *Add Student:* Display a form with inputs for Student Number, First and Last names, and a Submit button.
- *Delete*: Display the record information of the record they chose to delete. Give them one last chance to change their mind, eg: ask the user if they are sure they want to delete the record, and display a form with a radio button option of 'yes' and 'no'.
- *Update*: Display a form with fields for Student Number, First and Last names. Pre-populate these fields with the current record data. Add a Submit button.

Regardless of the database operation performed, after executing the SQL query, be sure to forward the user back to the page that displays all table data, so that they can see the latest table status.

**Usability Features**

Provide feedback to the user as they interact with your scripts. Display positive feedback, such as: "A new record has been added to the table" and also error messages, eg: "The record could not be updated as requested."

**Security Features**

Thoroughly validate all form data. Protect against SQL injection attacks.

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CODE STYLE Ensure your PHP scripts are well coded: use descriptive variable names, use carriage returns and tabs to make code readable, and use comments to explain important sections of your code.

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HINTS Before starting to code, consider planning or 'flow-charting' how the various features will be implemented. Eg: Display table > User chooses to Add Student > Display/Submit 'Add Student' HTML Form > Validate Form Data & Attempt to Add Student > Determine if the Add was Successful & Inform User > Display table again.

Build this application in stages. Add the complexity as you go. First output the table data as an HTML table, next implement the Add Student feature. The Delete and Update features should be saved for last. Get everything else working first.

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SUBMISSION

This assignment is due before end of day **Friday April 13, 2018**

Your instructor will be sending you feedback on this assignment.

Create a README.txt file that contains the following information:

- Your name
- Your email address
- If there are any parts of your application that are incomplete or buggy, briefly note them here. Also, if you have any questions about the assignment challenges, include them here.

Compress file(s) into a .zip or .rar file named **assignment02_lastname_firstname.zip**, using your last and first name.

Upload the compressed file to the Dropbox.

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