

Course:	CSCI 3230U: Web Application Development
Lab:	#4
Topic:	JavaScript

Overview

For this lab, you will add DHTML behavior to an existing web page (lab04.html). The HTML page contains a table, which you should make clickable like a spreadsheet program.

Student ID	Asmt 1	Asmt 2	Asmt 3
100000000	4.5	3.75	3.4
100000001	4.25	4.12	4.25
100000002	5.0	4.75	4.5

Figure 1: The table with nothing selected.

Instructions

Clickable Column Headers

In our table, we want the column headers (TH elements) to be clickable. Write an event handler for the column headers (not one for each, but one that works for all of them) that (when clicked) highlights each cell in that column with a background colour of 'lightBlue'.

Hint: When assigning the click event handler to the column header *th* tags, store the index (column #) in a property in that *th*'s DOM object.

Student ID	Asmt 1	Asmt 2	Asmt 3
100000000	4.5	3.75	3.4
100000001	4.25	4.12	4.25
100000002	5.0	4.75	4.5

Figure 2: The table when the 'Asmt 2' column header has been clicked

Clickable Rows

We also want the first cell in each row (TD elements) to be clickable. Write an event handler for these cells (not one for each, but one that works for all of them) that (when clicked) highlights each cell in that row with a background colour of 'lightBlue'.

Student ID	Asmt 1	Asmt 2	Asmt 3
100000000	4.5	3.75	3.4
100000001	4.25	4.12	4.25
100000002	5.0	4.75	4.5

Figure 3: The table when the '100000002' row header has been clicked

Clickable Cells

Finally, we also want the other cells (also TD elements) to be clickable. Write an event handler for these cells (not one for each, but one that works for all of them) that (when clicked) highlights the cell itself with a background colour of 'lightBlue'.

Student ID	Asmt 1	Asmt 2	Asmt 3
100000000	4.5	3.75	3.4
100000001	4.25	4.12	4.25
100000002	5.0	4.75	4.5

Figure 4: The table when the cell containing '3.4' has been clicked

How to Submit

Submit the HTML, CSS, and JavaScript files in a ZIP file, with a name following the same pattern as previous labs: Lab04_FirstNameLastName_StudentNumber.zip (e.g. Lab04_RandyFortier_100539147.zip) to the TA.