CP1295
Advanced JavaScript
Assignment 04 v1

CP1295 Assignment 04

Contents

A. Brief Description

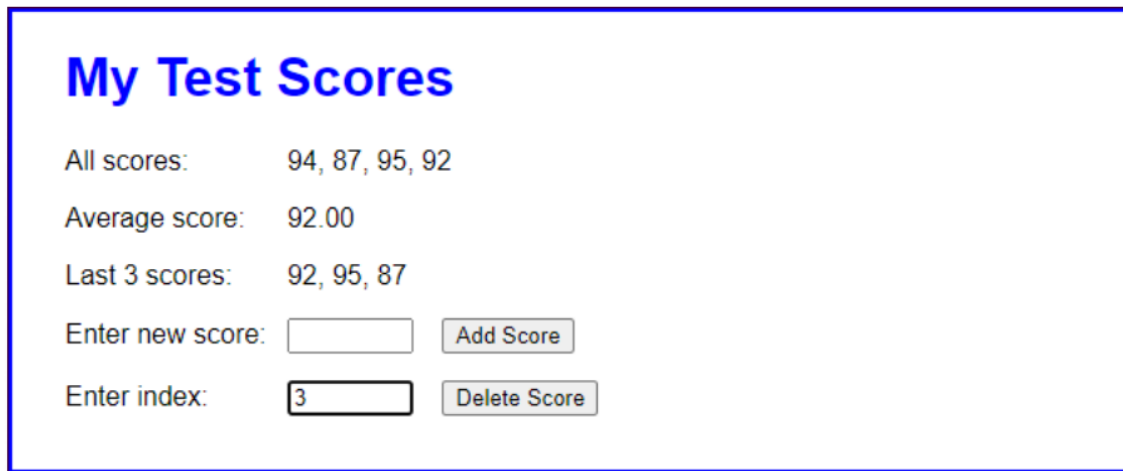Based on Arrays, Sets, and Maps

Chapter 15

Question is selected from the textbook.

Exercise 15-1 Enhance the Test Scores application..

Exercise 15-1   Enhance the Test Scores application

This exercise gives you a chance to work with arrays as you enhance the Test Scores application. The enhanced version has a new Delete Score button:

My Test Scores

All scores:	94, 87, 95, 92
Average score:	92.00
Last 3 scores:	92, 95, 87
Enter new score:	[____] [Add Score]
Enter index:	[3___] [Delete Score]

Open, test, and review this application

1. Use your text editor or IDE to open the application in this folder:
   `javascript_jquery\exercises\ch15\test_scores`

2. Test this application in Chrome by using the Add Score button to add scores to the two lists. Then, click on the Delete Score button to see that it doesn't do anything yet.

3. Review the JavaScript file for this application to see that the ready() event handler contains a click() event handler for the Delete Score button.

Code the Delete Score event handler

4. Code the click() event handler for the Delete Score button. It should start by getting the index entry as an integer. Then, it should use the splice() method to delete the element and redisplay the list of all the scores. For now, don't worry about updating the average score or the list of the last three scores.

5. Run the application, add one or more scores, and test the Delete Score button. Notice that if you enter an index value that isn't in the array or a value that isn't a number, nothing happens.

6. Add data validation to the click() event handler for the Delete Score button so the user's entry has to be a number and has to be an index value that's in the array. If either data validation check fails, display a message to the user in the span element that follows the Delete Score button. Then, test this change.

7. Move the code that calculates the average score to a helper function outside of the ready() event handler. Then, call this function from the click() event handlers for the Add Score and Delete Score buttons to display the average score.

8. Repeat the previous step for the code that gets the last three scores.

9. Repeat step 7 for the code that updates the DOM with all scores, the average score, and the last three scores.

10. Add code to the click() event handler for the Delete Score button that clears the Index text box and moves the focus to the Score text box. Then, test the application one more time to be sure everything is working properly.

Submission Requirements.

(1) Word Document with (1) Your Name (2) Student Number (3) Course Number (4) Assignment Number

(5) Screen shots from Step 10

Benchmark data to use for the final screen shot: All scores: 94, 87, 95, 92

Grading Rubric will follow the Exercise numbers.

		50
0A	Word document with (1) Name (2) Student #, (3) Course #, (5) Assignment #	1
0B	Screen Shot of completed run	2
5A	Code the click() Event Handler for the Delete Score button.	5
5B	Function Test top Delete scores	4
6A	Add data validation to the click() event handler for the Delete Score Button	5
6B	Function Test for validation on ADD and DELETE scores	5
7A	Move the code that calculates average score to a helper function outside of ready() event handler.	5
7B	Function Test of the code of 7A	5
8A	Move the code that gets the last three scores to a helper function outside of the ready() event handler.	2
8B	Function Test of the code of 8A	2
9A	Move the code that updates the DOM with all scores, the average score, and the last three scores to a helper function outside of the ready() event handler.	2
9B	Function Test of the code of 9A	2
10A	Add code to the click event handler for the Delete score button that clears the Index text box and moves the focus to the Score text box.	5
10B	Function Test of the code of 10A	5

End of Assignment