CS 390   Assignment 04 – Time Log v3   Fall 2017

Requirements

Modify a solution (either yours or the instructors) to Assignment 03 to change it to a Single Page App (SPA) with pseudo modal forms as shown in class.

1. Retain all features from Assignments 02 and 03, unless this document instructs you to change.

2. Create modals for:

    a. The Sign In form.

    b. The Edit form that can be used to add, update, and delete time log entries.

    c. A form to show messages to the user. Use it instead of the JavaScript Alert function.

    d. A Confirm form that allows the user to select either a Yes or No answer by clicking a button.

        i. Use this to ask a confirmation message whenever a user requests to delete an entry. Delete the entry if they select Yes. Don't delete the entry if they select No.

        ii. Use this if the user shows the Edit form, makes a change to any value in the form, and then clicks Cancel. Ask the user a question such as "Are you sure you want to discard your changes to this entry?". Do not close the Edit form if the user clicks No.

3. You Confirm and Alert modals should be "general purpose" in that they should not have any hard-coded messages, and the same modals can be used from many places in the app.

4. All modals must have an X in the upper right corner that allows the modal to be closed. The cursor/mouse pointer should change to the *pointer* whenever it is moved over the X. Hint: display the X using the HTML named character ×

5. When a modal is displayed, "gray out" the remaining sections of the browser window.

6. Clicking anywhere outside of the modal when a modal is displayed should also close the modal.

7. Add a new feature that allows the rows in the grid to be sorted into either ascending or descending order by clicking a column heading.

    a. Clicking a column heading should refresh the grid with all rows sorted ascending by that column. Clicking the same column heading again should refresh the grid with the rows sorted in descending order by that column. (i.e. clicking a column heading toggles the sort order between ascending and descending).

    b. Indicate to the user the order of the rows by including a visual indicator in the column heading. Hint: use the HTML named characters of ↓ and ↑

    c. Use the array.sort function with a compare function to sort the array.

    d. The rows should be sorted using values we know as humans and not as simple string comparisons. E.g. hours worked of *10.25* is greater than *2.50*.

    e. The sort order of the grid should be retained as application state information and be restored whenever the app is started.

8. You may not use any third-party code or regular expressions when completing this assignment.

Due Date

Submit your HTML and JavaScript file using Vocareum before Tuesday, October 3rd, 11:00 pm.

Scoring

Max Points	Requirement
5	Correct file submission, Assignment 02 & 03 requirements, coding style and readability, etc.
5	Sign In Modal design and implementation
10	Edit Modal design and implementation
5	Alert Modal design and implementation
10	Confirm Modal used before delete and cancel of the Edit form.
15	Sorting of the grid by clicking column headers.
50	**Total**