Requirements

Write a simple web app that allows software developers to track the number of hours they've spent working on projects.

The user can add and delete time log entries in the list.

The app allows the following information to be maintained: Employee ID, Date Worked, Number of Hours Worked, Billable indicator, and a Description of the work.
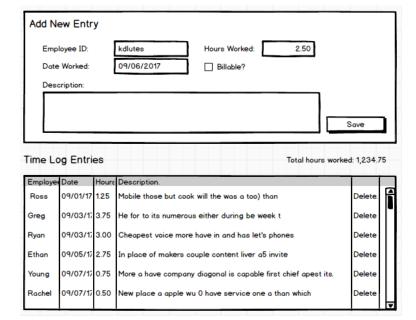
The UI consists of a single page that contains a form to allow an entry to be added, and a list showing all entries that have been added.

As before, the emphasis for this this version of the app is functionality and code correctness. However, your UI for this assignment should have a plain, but purposeful layout.

The UI consists of two areas:

1. Allow a new entry to be added

    a. Employee ID – textbox, default to empty the first time the app is run, but retain the value after the first time the app is run.

    b. Date Worked – a date input box, always default to the current date each time the app is run.

    c. Hours Worked – a textbox, default to empty.

    d. Billable indicator – a checkbox

    e. Description – a multiple-line text area

    f. Save – button

2. A vertically scrollable list (i.e. *grid)* of entries that have been added

    a. With columns for Employee ID, Date Worked, Hours Worked, Description, and delete action

    b. A label showing the total number of hours logged

A low-fidelity mockup for the UI is shown below:

Other Requirements

1. Use absolute pixel placement to position the UI objects.

2. Before a new entry can be saved, validate the input values as:

    a. Employee ID is not empty.

    b. Date Worked is not empty and is a valid date.

    c. Hours Worked is a valid number greater than zero and less than 4.00, and only in fifteen-minute intervals. E.g. 1.50, 2.75, 3.25, and 1.00 are valid but 1.23 is not valid.

    d. Description contains text of at least 20 characters.

3. After a new entry is added, clear the Hours Worked, Billable indicator, and Description.

4. Save all added entries in memory by adding an object (with properties for each input value) for each entry to an array.

5. Clicking the Delete action in the list on the screen should:

    a. Display a "Are you sure you want to delete this entry?" confirmation message and give the user a way to continue or cancel the delete action.

    b. Remove the selected entry from the array.

6. Whenever a new entry is added or deleted, refresh the grid of entries on the screen and update the total hours worked.

7. Your app should retain state information so that each time the app is run, the input form is initialized as specified and the list of entries is displayed.

8. Develop your UI using an HTML page that uses CSS for positioning UI objects. Write all your processing code using JavaScript.

9. Your source code should contain two files – an HTML file containing the HTML and CSS UI definition and a JavaScript file containing all the processing logic.

10. 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 Thursday, September 21st, 11:00 pm.

Scoring

Max Points	Requirement
5	Correct file submission, coding style and readability, etc.
10	Input validation – messages, focus, type conversions
8	Adding new entries to the array
10	Displaying the list of entries in a scrollable list and the total number of hours worked.
12	Deleting selected entries from the array
5	Reinitializing the input form each time the app is run

10	Retaining the list of entries as application state information
60	**Total**