

Mid-Term – Create an “Update Expenditure” Application

For this mid-term activity, you’ll create an application that allows a user to add their information, update their expenditure, see total and maximum expenditures. You will have 2 hours to complete this activity.

Part 0: Download files

1. Download *Midterm .zip that contains the Midterm.html, Midterm.css, and Midterm.js* and save it under the Exercise folder on your computer. Then extract the zip file.
2. Verify there are no errors in all the files

Part 1: Develop and design the application (22 pts):

After designed and developed, the application should look like the following figure:

Update Expenditure

Enter you details

Name

Email

Submit

Choose a day:

Enter the expenditure:

Update **Total Expenditure**

Total Expenditure is:

Show Maximum Expenditure Day and Amount:

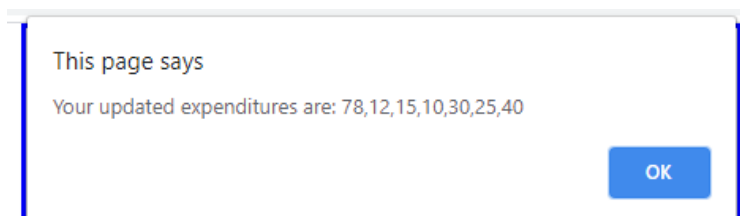
[Validate HTML](#)
[Validate CSS](#)

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1. Add a form so that it looks similar to the above figure:
 - a) Header with content- “Enter your details”
 - b) Input fields will be for Name, and Email. Add appropriate placeholders and labels.
 - c) There should be HTML validation for the email and all the input field information are mandatory for submitting the form.
 - d) A submit button.
2. Add a drop-down list with appropriate label and options- all the days from Monday through Sunday.
3. Input field for the expenditure with appropriate label should only accept numbers.
4. Two buttons, one for “Update” and another for “Total Expenditure”.
5. Input field for the total expenditure with appropriate label.
6. In the Midterm.css apply same style to the three buttons (Submit, Update and Total Expenditure), so that it looks similar to the right hand side figure. You can pick a color of your choice for the buttons and provide a **contrasting** color for text on the buttons. The buttons should be 45% in width.
7. After the css is applied check that the “Update”, and “Total Expenditure” buttons is displayed in one single row as in the figure.
8. Check that there is no HTML and CSS errors.

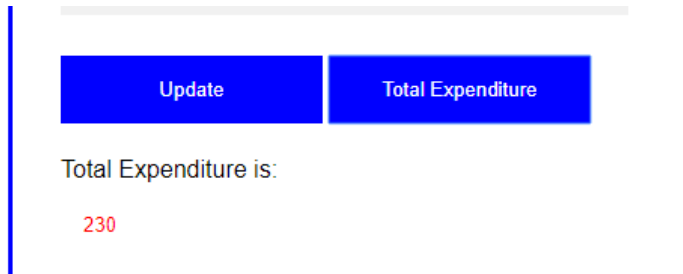
Part 2: Add interaction to your application (22 pts)

1. Two arrays with the seven days and its corresponding expenditures are given to you.
2. Write the **updateExpenditure()** function. This event will be triggered, after a user chooses a day, enters an expenditure, and hits the Update button. This function should read the expenditure amount entered by the user, and update the expenditure in the “expenditure” array for the day that the user choose. With that, it should also show an alert- "Your updated expenditures are: " and show all the seven expenditures including the one you updated like the below figure. If the user have not entered any expenditure and hits update, then an alert should say- "Enter a valid number". After an alert is shown, you should clear the input field for entering a new expenditure.

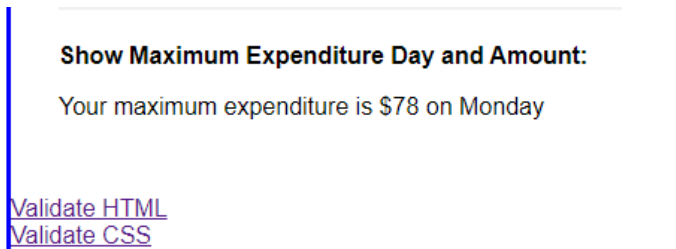


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3. Write the **showTotalExp()** function. This event will be triggered, after a user hits the Total Expenditure button. It should show the total expenditure inside the input field that has a label of “Total Expenditure is:”. Then using JS add style to make the color of the total expenditure red and make its background color as transparent. A portion of the webpage should look like the below figure after the Total Expenditure button is hit.



4. Write the **showMax()** function. This event will be triggered, after a user hovers mouse over the text “Show Maximum Expenditure Day and Amount:”. It should find out the maximum expenditure and the corresponding day, and show it on the HTML page a paragraph (add HTML nodes) as shown in the below figure.



5. Check that there is no JavaScript errors.

Note: There is no function for the submit button.

Part 3: Turn in your activity

Upload all the files, **Midterm.html**, **Midterm.css**, **Midterm.js** files to Canvas and your webpage account, and add the **URL** to your webpages account to the open-ended comment section on Canvas. (1pt)

Rubric is in the next page...

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Mid-Term Activity-Online Rubric			
Criteria	Ratings		Pts
Form Design a) Header with content- "Enter you details" (1pt) b) Input fields will be for Name, and Email. Add appropriate placeholders and labels. (4) c) There should be HTML validation for the email and all the input field information are mandatory for submitting the form. (3) d) A submit button (1)	9 pts Full Marks	0 pts No Marks	9 pts
Add a drop-down list with appropriate label and options- all the days from Monday through Sunday. (2)	2 pts Full Marks	0 pts No Marks	2 pts
Input field for the expenditure with appropriate label, should only accept numbers(2)	2 pts Full Marks	0 pts No Marks	2 pts
Two buttons, one for "Update" and another for "Total Expenditure" (1)	1 pts Full Marks	0 pts No Marks	1 pts
Input field for the total expenditure with appropriate label. (1)	1 pts Full Marks	0 pts No Marks	1 pts
Same style to the three buttons (4)	4 pts Full Marks	0 pts No Marks	4 pts
"Update", and "Total Expenditure" buttons is displayed in one single row as in the figure. (1)	1 pts Full Marks	0 pts No Marks	1 pts
Check that there is no HTML , CSS errors, and JS errors	3 pts Full Marks	0 pts No Marks	3 pts
updateExpenditure() a) read the expenditure amount entered by the user(1) b) update the expenditure in the "expenditure" array for the day that the user choose and shows correct alert message (2) c) alert if a number is not entered (1) d) clear the input field for entering a new expenditure (1) e) function works as expected (3)	8 pts Full Marks	0 pts No Marks	8 pts
showTotalExp () a) show the total expenditure inside the input field that has a label of "Total Expenditure is:". (2) b) use JS to add style (2) c) method works as expected (3)	7 pts Full Marks	0 pts No Marks	7 pts
showMax() a) finds out the maximum expenditure and the corresponding day (2) b) show it on the HTML page as a paragraph (1) c) method works as expected (3)	6 pts Full Marks	0 pts No Marks	6 pts
Correct URL provided	1 pts Full Marks	0 pts No Marks	1 pts
Total Points: 45			