

CCAPDEV Term 2, AY 2021 – 2022

Mini Challenge 2: Expense Tracker

General Instructions

- Read the instructions first before proceeding!
- You may use the internet and your notes for reference, but you may not communicate with any other person for help.
- For any clarifications, ask your instructor.

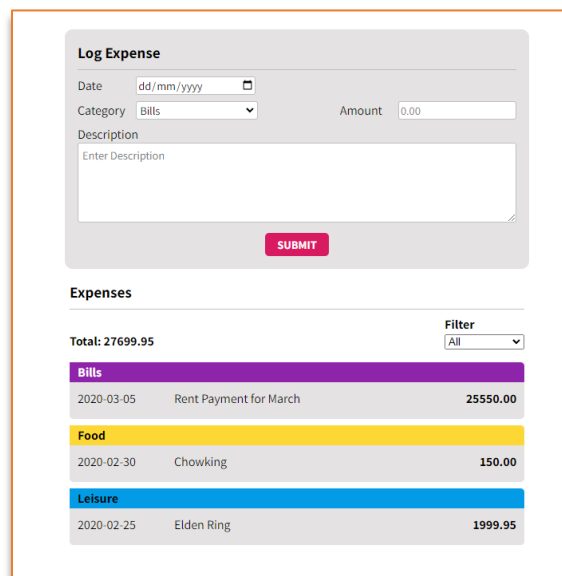
Submission Details

Zip all your files and name it MC2_LastnameFirstname.zip. Submit the zipped folder to AnimoSpace.

SPECIFICATIONS

The webpage you will be recreating is a simple expense tracker app. For this mini challenge, you are already provided the HTML and the CSS files required. The layouts and styling are already completely defined, you only have to implement its functionality.

Do not change anything in the HTML and CSS files, it is expected that you can complete the website through the JavaScript file alone!



The screenshot shows a web application titled "Expense Logger". It features a "Log Expense" form at the top with fields for Date (dd/mm/yyyy), Category (Bills), Amount (0.00), and a Description text area. A red "SUBMIT" button is at the bottom of the form. Below the form is an "Expenses" section with a "Total: 27699.95" and a "Filter" dropdown set to "All". The expenses are listed in a table with three categories: Bills (purple header), Food (yellow header), and Leisure (blue header). Each entry shows the date, description, and amount.

| Expenses | | |
|-----------------|------------------------|-------------|
| Total: 27699.95 | | Filter: All |
| Bills | | |
| 2020-03-05 | Rent Payment for March | 25550.00 |
| Food | | |
| 2020-02-30 | Chowking | 150.00 |
| Leisure | | |
| 2020-02-25 | Elden Ring | 1999.95 |

Figure 1. Expense Logger Webpage

The user is provided a form which they can log new expense entries, which would then be displayed on the expenses list below. The form requires the user to set a date, category, description, and the amount¹.

¹ **Hint:** For easy object creation, you can declare an object constructor:
(https://www.w3schools.com/js/js_object_constructors.asp)

There is no limit to how many expenses can be added. After an expense is successfully added, **reset the form** back with the values set to its initial state (i.e. Bills for category, and blank for others). Additionally, the total amount (displayed in the expenses list) is also updated.

The items are of the class `financeItem`, which are then placed inside the `div` container with the class `itemsList`. You may refer to the provided [html file](#) for examples of the items and see how they are constructed.

Log Expense

Date30/04/2022

CategoryFood

Amount195

DescriptionJollibee Ultimate Burger Steak

SUBMIT

Expenses

Total: 27699.95FilterAll

Bills

2020-03-05Rent Payment for March25550.00

Food

2020-02-30Chowking150.00

Leisure

2020-02-25Elden Ring1999.95

Figure 2. Filling in the Log Expense form

Log Expense

Date

Category
Amount

Description

Enter Description

SUBMIT

Expenses

Total: 27894.95

Filter

| Food | | |
|------------|--------------------------------|----------|
| 2022-04-30 | Jollibee Ultimate Burger Steak | 195.00 |
| Bills | | |
| 2020-03-05 | Rent Payment for March | 25550.00 |
| Food | | |
| 2020-02-30 | Chowking | 150.00 |
| Leisure | | |
| 2020-02-25 | Elden Ring | 1999.95 |

Figure 3. Logged expense submitted.

As you may have noticed from the screenshots, each expense item has its own assigned colors for its header, depending on the category. These categories are already styled in the stylesheet as the classes: Food, Bills, and Leisure, accordingly. You may refer to the three sample items provided in the html file as reference as to how these classes are assigned to the items.

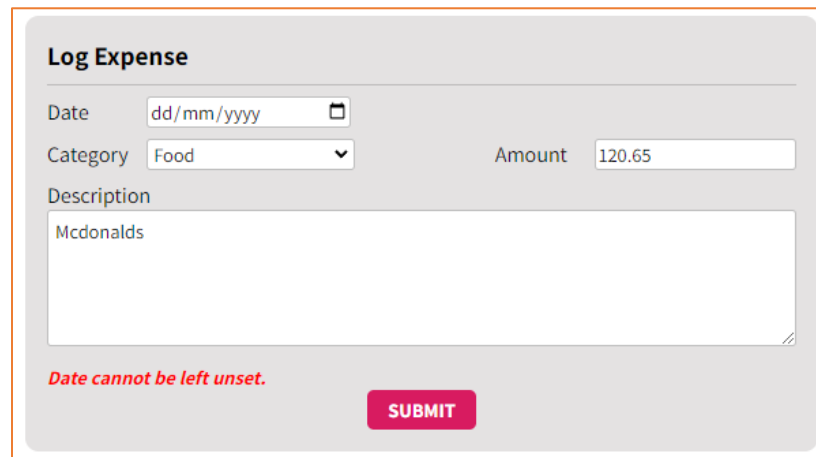
Input Validation

In addition to expense logging, the form also includes a simple input validation feature. It only detects whether certain form entries are empty, and then displays the appropriate message. For reference, Table 1 below lists the error message for the given input error. [Do not reset the form back if there is an error!](#)

Table 1. Error messages for the given input error

| Error | Error Message |
|--|--|
| Date is unset | Date cannot be left unset. |
| Description is blank | Description cannot be left blank. |
| Amount is blank | Amount cannot be left blank. |
| Two or more errors occurred at the same time | Multiple input fields are blank/unset! |


The error message is to be displayed inside the paragraph element with the id errorText.




The screenshot shows a web form titled "Log Expense". It contains several input fields: a date field with a calendar icon, a category dropdown menu set to "Food", an amount input field with "120.65", and a description text area containing "Mcdonalds". Below these fields, a red error message "Date cannot be left unset." is displayed. At the bottom right, there is a pink "SUBMIT" button.

Figure 4. Unset date error

Log Expense

Date 

Category  Amount

Description


Mcdonalds


Amount cannot be left blank.

SUBMIT

Figure 5. Amount left blank error

Log Expense

Date 

Category  Amount

Description


Enter Description


Description cannot be left blank.

SUBMIT

Figure 6. Description left blank error

Log Expense

Date 

Category  Amount

Description

Enter Description

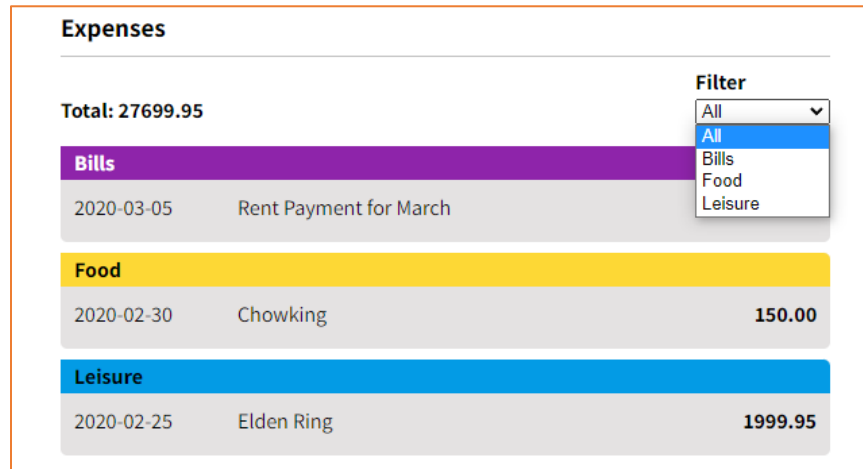
Multiple input fields are blank/unset!

SUBMIT

Figure 7. Multiple blank/unset input error

Bonus Feature: List Filtering

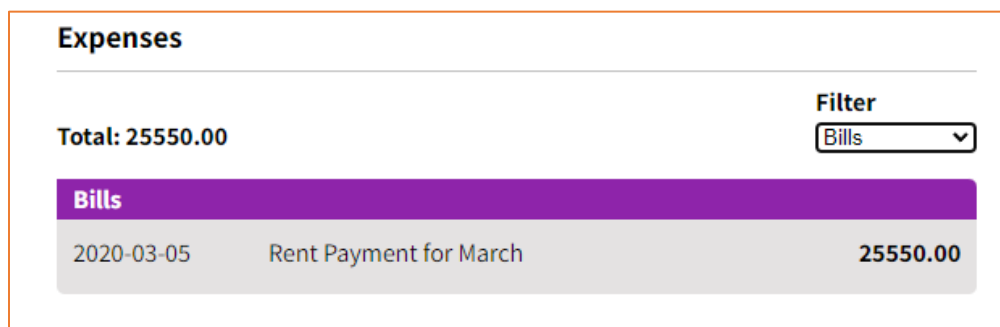
A filter dropdown is also provided. After the selection has changed, the list should only show the expenses under the selected category. The total should also reflect the changes done by the category filter.



The screenshot shows the 'Expenses' page with a total of 27699.95. A filter dropdown menu is open, displaying four options: 'All', 'Bills', 'Food', and 'Leisure'. The 'All' option is currently selected. Below the filter, the list of expenses is shown, grouped by category. The 'Bills' category is highlighted in purple and contains one item: 'Rent Payment for March' dated '2020-03-05'. The 'Food' category is highlighted in yellow and contains one item: 'Chowking' dated '2020-02-30' with a value of '150.00'. The 'Leisure' category is highlighted in blue and contains one item: 'Elden Ring' dated '2020-02-25' with a value of '1999.95'.

| Expenses | | |
|-----------------|------------------------|---------|
| Total: 27699.95 | | |
| Filter: All | | |
| Bills | | |
| 2020-03-05 | Rent Payment for March | |
| Food | | |
| 2020-02-30 | Chowking | 150.00 |
| Leisure | | |
| 2020-02-25 | Elden Ring | 1999.95 |


Figure 8. Filter dropdown options



The screenshot shows the 'Expenses' page with the filter set to 'Bills'. The total is now 25550.00. Only the 'Bills' category is displayed, highlighted in purple, with the item 'Rent Payment for March' dated '2020-03-05' and a value of '25550.00'.

| Expenses | | |
|-----------------|------------------------|----------|
| Total: 25550.00 | | |
| Filter: Bills | | |
| Bills | | |
| 2020-03-05 | Rent Payment for March | 25550.00 |

Figure 9. Filter - Bills selected



The screenshot shows the 'Expenses' page with the filter set to 'Leisure'. The total is now 1999.95. Only the 'Leisure' category is displayed, highlighted in blue, with the item 'Elden Ring' dated '2020-02-25' and a value of '1999.95'.

| Expenses | | |
|-----------------|------------|---------|
| Total: 1999.95 | | |
| Filter: Leisure | | |
| Leisure | | |
| 2020-02-25 | Elden Ring | 1999.95 |

Figure 10. Filter - Leisure selected

RUBRIC FOR GRADING

| Content | Score |
|--|--------------|
| Add an expense | 5 |
| Validation of expense entry | 10 |
| Reset form upon successful submit | 5 |
| Display expense item correctly in the list | 15 |
| Updating of the expense total amount | 5 |
| Total | 40 |

Bonus Items:

You may only get the bonus items once you have implemented the required features.

| Content | Score |
|---|--------------|
| Filter expense by category | 7 |
| Updating of the expense filtered total amount | 3 |