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Assignment 6 Documentation

NOTICE: Please refer back to Assignment 5 documentation for adding inputs to the table! In this documentation, we will be going over how to use filter functionality.

This is the main view of the filtering spending manager with data already in the table.

The screenshot shows the main interface of the 'FilteringSpendingManager' app. At the top, the title 'FilteringSpendingManager' is displayed in a teal header. Below the title, a green bar shows the 'Current Balance: \$2130.00'. A red bar labeled 'Input Data' contains a table with columns for 'Day', 'Month', 'Year', 'Amount', and 'Category'. Below this, a green bar with a '+' sign and a red bar with a '-' sign are visible. A red bar labeled 'Filter History' is followed by a grey bar labeled 'Filter by date'. This section contains input fields for 'Initial date' and 'Final date', each with 'Day', 'Month', and 'Year' sub-fields, and a 'To' label. Below this is a grey bar labeled 'Filter by Amount' with input fields for 'Initial amount' and 'Final amount', and a 'To' label. At the bottom of the filter section are two buttons: 'FILTER' and 'CLEAR FILTER'. A red bar labeled 'History' is at the bottom, followed by a table with three columns: 'Date', 'Amount', and 'Category'. The table contains three rows of data.

Day	Month	Year	Amount	Category

Current Balance: \$2130.00

Input Data

Day	Month	Year	Amount	Category

Filter History

Filter by date

Initial date: Day ____ Month ____ Year ____
To
Final date: Day ____ Month ____ Year ____

Filter by Amount

Initial amount: ____ To Final amount: ____

FILTER **CLEAR FILTER**

History

Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift
8-20-2020	-20	Food

Since last design (Assignment 5). I have rearranged the buttons to the bottom and instead of taking one input as date, I have divided it into day, month, and year to make taking inputs for date easier. Current balance box is also smaller.

Current Balance: \$2130.00

Input Data

Day Month Year Amount Category

+

-

No changes have been made for the History section.

History		
Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift
8-20-2020	-20	Food

This is the new functionality for the spending manager. It filters given starting date to end date. It can also filter by given range for starting amount and end amount. Clicking filter button will show filtered history of what the user inputted. Clear filter button will clear all inputs and also reset the history section to original state.

Filter History

Filter by date

Initial date: Day 1 Month 1 Year 2020

To

Final date: Day 1 Month 5 Year 2020

Filter by Amount

Initial amount: 100 To Final amount: 700

FILTER CLEAR FILTER

Below will show example of using date as filter and also the amount.

Using date filter:

Enter desired date in the “filter by date” section

The screenshot shows the FilteringSpendingManager app interface. At the top, the status bar displays the time 4:27 and various icons. The app title "FilteringSpendingManager" is in a teal header. Below it, a green box shows "Current Balance: \$2130.00". A red bar labeled "Input Data" is followed by a table with columns: Day, Month, Year, Amount, and Category. The first row has a green background with a "+" sign and a red background with a "-" sign. Below this is a red bar labeled "Filter History". A grey bar labeled "Filter by date" contains two date pickers. The first picker is for the "Initial date" with Day 1, Month 1, and Year 2020. The second picker is for the "Final date" with Day 1, Month 5, and Year 2020. Below these is a grey bar labeled "Filter by Amount" with fields for "Initial amount:", "To", and "Final amount:". At the bottom of this section are two buttons: "FILTER" and "CLEAR FILTER". A red bar labeled "History" is at the bottom, followed by a table with columns: Date, Amount, and Category. The table contains three rows of data.

Day	Month	Year	Amount	Category
			+	-

Filter History

Filter by date

Initial date: Day 1 Month 1 Year 2020

To

Final date: Day 1 Month 5 Year 2020

Filter by Amount

Initial amount: To Final amount:

FILTER **CLEAR FILTER**

History

Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift
8-20-2020	-20	Food

After hitting the filter button. Below only shows data that user put for specific date (1-1-2020-5-1-2020)

It does not contain 8-20-2020 because it is out of date range user inputted.

4:28

FilteringSpendingManager

Current Balance: \$2150.00

Input Data

Day	Month	Year	Amount	Category
			+	-

Filter History

Filter by date

Initial date: Day 1 Month 1 Year 2020
To
Final date: Day 1 Month 5 Year 2020

Filter by Amount

Initial amount: To Final amount:

FILTER **CLEAR FILTER**

History

Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift

Using amount filter:

Enter desired input for the amount under “filter by amount” section

The screenshot shows the 'FilteringSpendingManager' app interface. At the top, the status bar shows the time 4:31 and various icons. The app title 'FilteringSpendingManager' is displayed in a teal header. Below the header, a green bar shows 'Current Balance: \$2130.00'. A red bar labeled 'Input Data' contains a table with columns 'Day', 'Month', 'Year', 'Amount', and 'Category'. The first row has a green background with a '+' sign and a red background with a '-' sign. Below this is a red bar labeled 'Filter History'. A grey bar labeled 'Filter by date' contains date pickers for 'Initial date' (Day 1, Month 1, Year 2020) and 'Final date' (Day 1, Month 5, Year 2020). Below this is another grey bar labeled 'Filter by Amount' containing 'Initial amount: 100' and 'Final amount: 700'. Two buttons, 'FILTER' and 'CLEAR FILTER', are located below the 'Filter by Amount' section. A red bar labeled 'History' is at the bottom, containing a table with columns 'Date', 'Amount', and 'Category'.

Day	Month	Year	Amount	Category
			+	-

Filter History

Filter by date

Initial date: Day 1 Month 1 Year 2020
To
Final date: Day 1 Month 5 Year 2020

Filter by Amount

Initial amount: 100 To Final amount: 700

FILTER **CLEAR FILTER**

History

Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift
8-20-2020	-20	Food

After hitting the filter button, it shows the amount that contains 150 because user searched for amount ranging 100 to 700.

Amount that's -20 and 2000 doesn't show because it is out of the 100 – 700 range.

The screenshot displays the 'FilteringSpendingManager' app interface. At the top, the status bar shows the time 4:56 and various icons. The app title 'FilteringSpendingManager' is in a teal header. Below it, a green box shows 'Current Balance: \$150.00'. A red bar labeled 'Input Data' contains a table with columns: Day, Month, Year, Amount, and Category. The table has two rows: a green row with a '+' sign and a red row with a '-' sign. Below the input data is a red bar labeled 'Filter History'. Underneath is a grey bar labeled 'Filter by date'. This section contains two date pickers: 'Initial date: Day 1 Month 1 Year 2020' and 'Final date: Day 1 Month 5 Year 2020'. Below the date filters is another grey bar labeled 'Filter by Amount'. This section contains two amount pickers: 'Initial amount: 100' and 'Final amount: 700'. Below the amount filters are two buttons: 'FILTER' and 'CLEAR FILTER'. At the bottom is a red bar labeled 'History'. Below the history bar is a table with columns: Date, Amount, and Category. The table has one row: '3-3-2020', '150', and 'Gift'.

4:56

FilteringSpendingManager

Current Balance: \$150.00

Input Data

Day	Month	Year	Amount	Category
			+	
			-	

Filter History

Filter by date

Initial date: Day 1 Month 1 Year 2020

To

Final date: Day 1 Month 5 Year 2020

Filter by Amount

Initial amount: 100 To Final amount: 700

FILTER **CLEAR FILTER**

History

Date	Amount	Category
3-3-2020	150	Gift

Using clear filter:

After using the filter functionality and want to clear the inputs and reset the table. User can use the “clear filter” button.

The screenshot displays the 'FilteringSpendingManager' app interface. At the top, the status bar shows the time 4:56 and various icons. The app title 'FilteringSpendingManager' is in a teal header. Below it, a green box shows 'Current Balance: \$150.00'. A red bar labeled 'Input Data' contains input fields for 'Day', 'Month', 'Year', 'Amount', and 'Category'. Below these is a green bar with a '+' sign and a red bar with a '-' sign. A red bar labeled 'Filter History' is followed by a grey bar 'Filter by date'. This section includes 'Initial date' (Day 1, Month 1, Year 2020) and 'Final date' (Day 1, Month 5, Year 2020) with a 'To' label between them. Below is a grey bar 'Filter by Amount' with 'Initial amount: 100' and 'Final amount: 700' separated by a 'To' label. Two buttons, 'FILTER' and 'CLEAR FILTER', are at the bottom of the filter section. A red bar labeled 'History' is at the bottom, containing a table with the following data:

Date	Amount	Category
3-3-2020	150	Gift

After hitting the clear filter button, it resets the inputs in the filter history and the history section.

5:01

FilteringSpendingManager

Current Balance: \$2130.00

Input Data

Day	Month	Year	Amount	Category

Filter History

Filter by date

Initial date: Day ____ Month ____ Year ____
To
Final date: Day ____ Month ____ Year ____

Filter by Amount

Initial amount: ____ To Final amount: ____

FILTER **CLEAR FILTER**

History

Date	Amount	Category
4-1-2020	2000	Salary
3-3-2020	150	Gift
8-20-2020	-20	Food

Database Design:

Database remains the same since last assignment. It still takes category, date and amount data.

Count	Category	Date	Amount
Filter	Filter	Filter	Filter
1	Salary	4-1-2020	2000.0
2	Gift	3-3-2020	150.0
3	Food	8-20-2020	-20.0