Expense Tracker

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Code Structure

- HTML (index.html):
 - Provides the structure of the Expense Tracker application.
 - Contains elements like the title, forms for adding transactions, summary sections, a filter dropdown, and the canvas for the chart.
- CSS (expense.css):
 - o Styles the entire web application, making it visually appealing.
 - Includes styling for the body, container, summary section, forms, buttons, and the chart.
- JavaScript (expense.js):
 - Handles the core functionality of the application.
 - Key Variables:
 - transactions: An array to store transaction objects.
 - transactionsList, totalIncomeEl, totalExpensesEl, netIncomeEl, filterCategoryEl, expenseChartEl: DOM elements used to update the UI.
 - chart: Holds the Chart.js instance for the pie chart.

Main Functions:

- updateUI: Updates the transaction list, summary, and chart.
- addTransaction: Adds a new transaction to the list.
- removeTransaction: Removes a transaction by its ID.
- editTransaction: Edits an existing transaction.
- filterTransactions: Filters transactions based on the selected category.
- populateCategoryFilter: Updates the category filter dropdown.
- updateChart: Updates the pie chart with current expense data.
- exportData: Exports the transactions as a JSON file.
- importData: Imports transactions from a JSON file.

Event Listeners:

■ Listeners for adding transactions, filtering by category, exporting data, and importing data.

How It Works

- Adding Transactions: When a user adds a transaction, it is stored in the transactions array. The UI is updated to reflect the new transaction, and the data is saved to localStorage.
- **Filtering:** Users can filter transactions by category using a dropdown menu. The filterTransactions function returns transactions that match the selected category.
- **Chart Visualization:** The updateChart function uses Chart.js to create a pie chart that displays the distribution of expenses by category.
- Data Persistence: The application uses localStorage to save transactions, ensuring data is retained even if the page is refreshed. Users can also export and import transactions as JSON files.

This documentation provides a high-level overview of how the Expense Tracker application is structured and functions, offering guidance for anyone looking to understand or modify the code.

Thank You