

Expense Tracker - Project Documentation

Project Overview

The expense tracker allows a user to record daily expenses, view them in a list, edit existing entries, and keep the data saved even after refreshing the page.

Tech Stack:

- React
 - Tailwind CSS for styling
 - Vite (build tool)
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Project Structure

src/	
├── components/	
│ ├── Header.jsx	# App title and logo
│ ├── ExpenseForm.jsx	# Form to add new expenses
│ ├── ExpenseList.jsx	# Container for all expenses
│ ├── ExpenseItem.jsx	# Individual expense card
│ ├── ErrorMessage.jsx	# Toast notification for errors
│ └── ExpenseSummary.jsx	#Category and amounts
├── assets/	
│ └── Images/	
│ └── headerImage.png	# Logo/header image
├── Utilities/	
│ └── FormatCurrency.jsx	# Currency formatting
├── App.jsx	# Main app component (state management)
└── index.css	# Global styles

1. Add Expense

The user can add a new expense by entering:

- Amount (required)
- Category (required)
- Date (required)
- Note (optional)

If required fields are missing, the app shows a temporary error message and prevents submission.

2. Expense Storage (Local Storage)

All expenses are saved in the browser's local storage.

- Data remains available after page refresh or browser restart.
 - When the app loads, previously saved expenses are automatically restored.
 - Any change (add, edit, delete) updates local storage immediately.
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3. Expense List

- Displays all recorded expenses in a clean list.
- Each expense shows category, date, amount, and optional note.
- If no expenses exist, an empty-state message is shown.

4. Edit Expense

- Each expense has an edit option.
 - Clicking edit loads the selected expense back into the form.
 - The form switches to “Edit mode” to indicate an update is happening.
 - After updating, the existing expense is modified instead of creating a new one.
 - Edit mode can be canceled to return to normal add mode.
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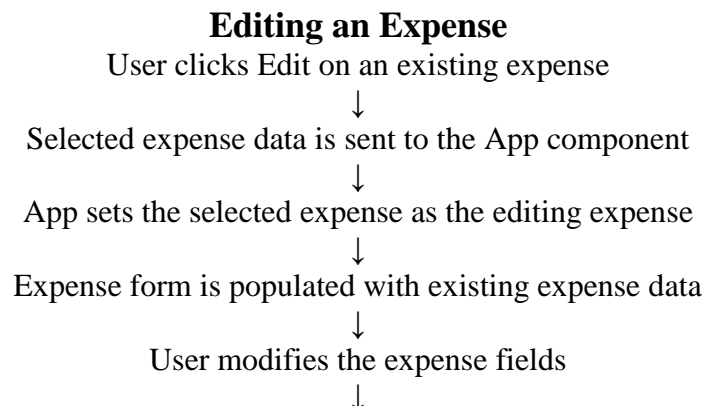
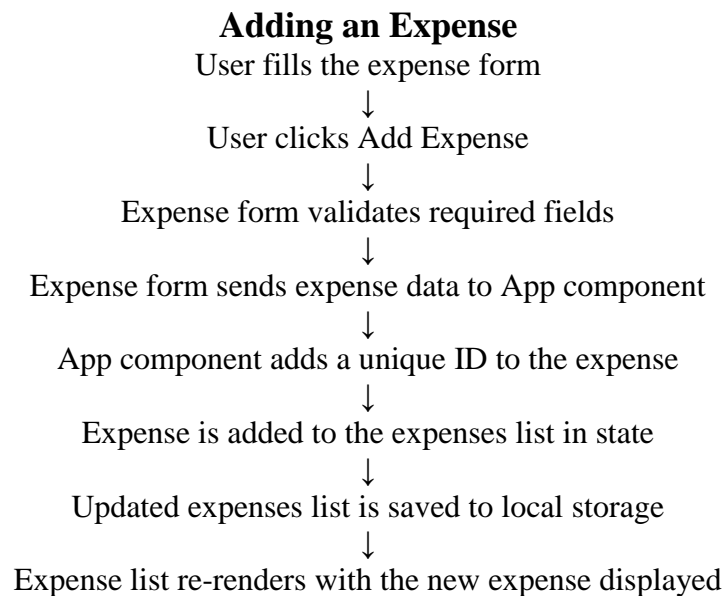
5. Delete Expense

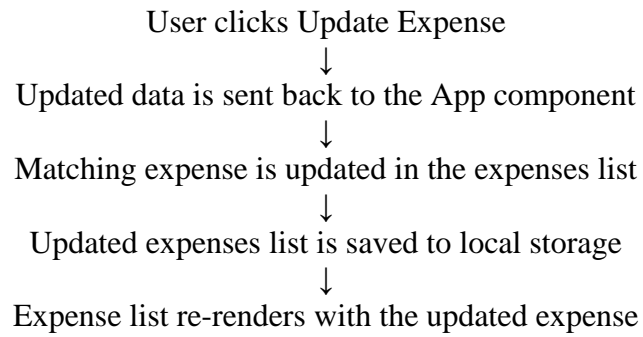
- Each expense can be removed individually.
 - Deleted expenses are immediately removed from the list and local storage.
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6. Clear All Expenses

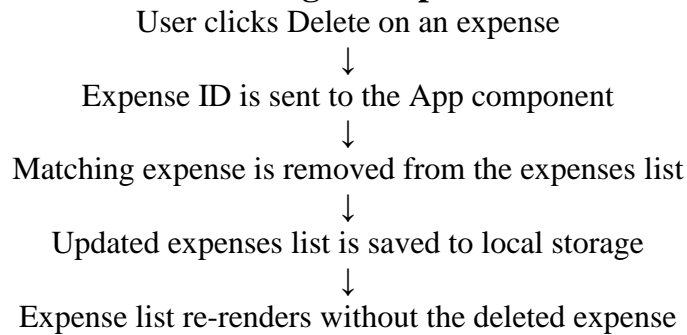
- A single action removes all stored expenses.
 - Used when the user wants to reset tracking completely.
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Data Flow Architecture





Deleting an Expense



Local Storage Synchronization

