

Project Title	Expense Tracker
Technologies	HTML, CSS, JavaScript
Project Difficulties level	Hard

Project Description:

Objective: The goal of this assignment is to design and build an Expense Tracker web application using HTML, CSS, and JavaScript. An Expense Tracker helps users manage their finances by allowing them to input their expenses and income, categorize transactions, and see a summary of their financial activities.

Requirements:**User Interface:**

- Create a user-friendly web interface for the Expense Tracker.
- Include sections for income and expenses.
- Provide input fields for date, description, category, and amount for each transaction.
- Implement buttons for adding and deleting transactions.

Transaction Management:

- Users should be able to add income and expense transactions separately.
- Implement a feature to categorize transactions (e.g., Food, Transportation, Entertainment, etc.).
- Display the list of transactions with their details, and include the category label.

Calculations and Summary:

- Calculate the total income and total expenses separately.

- Calculate the net income (total income - total expenses).
- Display these calculations on the page.

Styling and Responsiveness:

- Apply CSS to style the Expense Tracker and make it visually appealing.
- Ensure that the application is responsive, providing a good user experience on various screen sizes (desktop, tablet, and mobile).

Validation:

- Implement basic input validation to ensure that users enter valid data.
- Display appropriate error messages if users enter incorrect or incomplete information.

Persistence:

- Optionally, you can implement local storage to save the user's transactions. This allows users to return to the application and see their previous data.

Bonus Features (Optional):

- Implement a feature to filter transactions by category.
- Create a data visualization (e.g., pie chart) to represent the distribution of expenses by category.
- Allow users to edit and update existing transactions.
- Enable export and import functionality for transaction data.

Deliverables:

- A well-structured HTML, CSS, and JavaScript codebase for the Expense Tracker.
- A responsive and visually appealing web interface.
- A README file explaining how to use the Expense Tracker.
- A brief documentation explaining the code structure and how it works.

Grading Criteria:

The project will be graded based on the following criteria:

- **Functionality:** Does the Expense Tracker correctly manage transactions, calculate totals, and categorize expenses?
- **User Interface:** Is the interface user-friendly and visually appealing?
- **Responsiveness:** Does the application provide a good user experience on different devices?
- **Code Quality:** Is the code well-structured, well-documented, and free of errors?

Submission:

Students should submit their project as a compressed folder containing HTML, CSS, and JavaScript files along with any necessary assets. They should also provide a README file explaining how to use the application and a brief documentation on the code structure.