

Web Technologies Exercise

Case Study 2: Expense Tracker Application

Scenario

A startup founder wants a personal expense tracker to monitor their daily spending. The application should allow users to log expenses, categorize them, and visualize the total spending in different categories.

Requirements

1. Features:

- Add a new expense with details like:
 - Amount.
 - Description.
 - Category (e.g., Food, Travel, Shopping).
- Display a summary of total spending by category.
- Delete expenses if needed.

2. Styling:

- Create a visually pleasing layout with CSS (e.g., category badges, table layout for expense logs).
- Use media queries to ensure the design is responsive on mobile and desktop screens.

3. JavaScript Functionality:

- Use JavaScript to calculate and display the total expense for each category dynamically.
- Store expenses using localStorage for persistence.

4. Extras (Optional):

- Create a pie chart or bar chart to visualize spending by category using a library like Chart.js or vanilla JavaScript with the <canvas> element.

Learning Outcomes

- Practice form handling in JavaScript.
- Implement basic data calculations dynamically.

- Use tables and charts for data visualization.
- Make use of responsive design principles with CSS.