WEB TECHNOLOGY

PROJECT

Title: "Personal Expense Tracker:

A Simple Web Application for Managing Finances"

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ABSTRACT:

The Expense Tracker is a lightweight web application designed to simplify the process of managing daily expenses. Built using HTML, CSS, and JavaScript, it allows users to record, categorize, and view their expenses in an organized manner. Users can input details such as a description, category, and amount for each expense, which is displayed in a tabular format. Additional features, such as the ability to edit or delete entries, make it a practical tool for personal finance management. The application also leverages local Storage to ensure data persistence, allowing users to retain their expense records even after refreshing the page or reopening the browser.

With its responsive design, the Expense Tracker works seamlessly across various devices, ensuring accessibility and ease of use. It addresses a real-world problem by providing a simple yet effective solution for tracking financial activities. The project demonstrates how fundamental web technologies can be combined to build functional applications with real-life applications. Future enhancements, such as graphical data visualization or export options, could make the tool even more robust, but as it stands, the Expense Tracker is a practical and user-friendly solution for individuals seeking better control over their finances.

INTRODUCTION:

Managing personal finances is an essential skill in today's fast-paced world. Many people struggle to keep track of their expenses, which can lead to financial mismanagement. To address this challenge, the Expense Tracker project aims to provide a simple, user-friendly, and accessible solution.

This project is built using HTML, CSS, and JavaScript and serves as a lightweight tool for individuals to monitor their daily expenses. By leveraging local Storage, it ensures data persistence without requiring any backend services.

Objective

The primary goal of the Expense Tracker project is to help users:

- ❖ Record their expenses efficiently.
- ❖ Categorize and summarize their spending habits.
- ❖ Edit or delete expenses as needed.
- ❖ Persist data even after the browser is closed.

Key Features

1. Add Expense: Users can input a description, category, and amount for each expense.

2. Expense Summary: Displays all added expenses in a tabular format.

3. Edit/Delete Expenses: Enables users to modify or remove specific records.

4. Data Persistence: Saves all expense data locally in the browser using local Storage.

5. Responsive Design: Ensures compatibility across devices with varying screen sizes.

CODES

Index.html

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Expense Tracker</title>
  <link rel="stylesheet" href="styles.css">
</head>
<body>
  <div class="container">
          <h1>Expense Tracker</h1>
```

```html
    <form id="expense-form">

      <input type="text" id="description" placeholder="Description" required>

      <select id="category">

        <option value="Food">Food</option>

        <option value="Travel">Travel</option>

        <option value="Miscellaneous">Miscellaneous</option>

      </select>

      <input type="number" id="amount" placeholder="Amount" required>

      <button type="submit">Add Expense</button>

    </form>

    <h2>Expense Summary</h2>

    <table id="expense-table">

      <thead>

        <tr>

          <th>Description</th>

          <th>Category</th>

          <th>Amount</th>

          <th>Actions</th>

        </tr>

      </thead>

      <tbody></tbody>

    </table>

  </div>

  <script src="script.js"></script>

</body>

</html
```

Style.css

```css
body {
  font-family: Arial, sans-serif;
  background-color: #f4f4f4;
  margin: 0;
  padding: 0;
}
.container {
  max-width: 800px;
  margin: 50px auto;
  padding: 20px;
  background: white;
  border-radius: 10px;
  box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}
h1, h2 {
  text-align: center;
  color: #333;
}
form {
  display: flex;
  justify-content: space-between;
  margin-bottom: 20px;
}

form input, form select, form button {
  padding: 10px;
  margin: 5px;
```
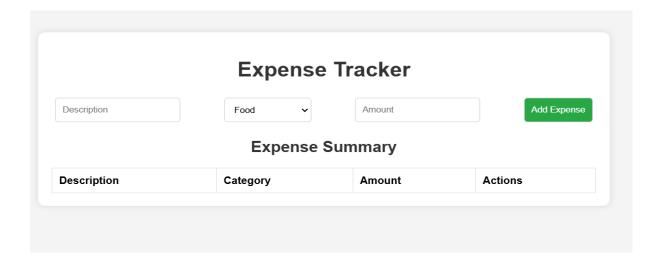
```css
  border: 1px solid #ccc;

  border-radius: 5px;

}

table {

  width: 100%;

  border-collapse: collapse;

}

table, th, td {

  border: 1px solid #ddd;

}

th, td {

  padding: 10px;

  text-align: left;

}

button {

  background-color: #28a745;

  color: white;

  border: none;

  cursor: pointer;

}

button:hover {

  background-color: #218838;

}
```
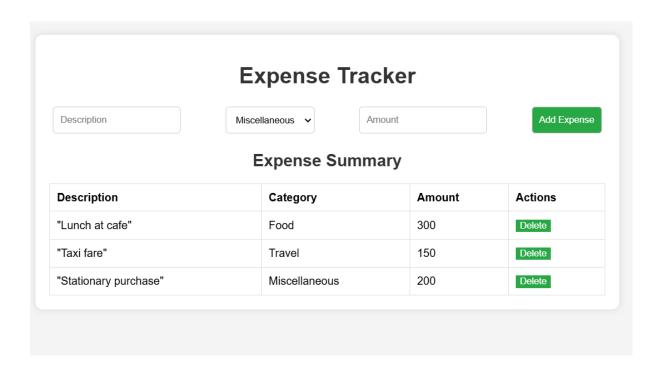
Script.js

```javascript
document.getElementById('expense-form').addEventListener('submit', addExpense);

function addExpense(event) {

  event.preventDefault();

  const description = document.getElementById('description').value;
```

```javascript
const category = document.getElementById('category').value;
const amount = document.getElementById('amount').value;
if (!description || !amount) {
  alert('Please fill in all fields');
  return;
}
const tableBody = document.querySelector('#expense-table tbody');
const row = document.createElement('tr');
row.innerHTML = `
  <td>${description}</td>
  <td>${category}</td>
  <td>${amount}</td>
  <td>
    <button class="delete-btn">Delete</button>
  </td>
`;
tableBody.appendChild(row);
document.getElementById('description').value = '';
document.getElementById('amount').value = '';
row.querySelector('.delete-btn').addEventListener('click', () => {
  row.remove();
});
}
```

OUTPUT

Expense Tracker

| Description | Food ▾ | Amount | Add Expense |

Expense Summary

Description	Category	Amount	Actions

Expense Tracker

| Description | Miscellaneous ▾ | Amount | Add Expense |

Expense Summary

Description	Category	Amount	Actions
"Lunch at cafe"	Food	300	Delete
"Taxi fare"	Travel	150	Delete
"Stationary purchase"	Miscellaneous	200	Delete

Conclusion:

The Expense Tracker project successfully demonstrates how fundamental web technologies such as HTML, CSS, and JavaScript can be utilized to create a practical and user-friendly application for managing daily expenses. By offering essential features like adding, editing, deleting, and persisting data using local Storage, the application empowers users to take control of their finances effectively. Its lightweight design ensures accessibility and responsiveness across devices, making it suitable for a wide range of users.

This project not only addresses a common real-world problem but also provides a foundation for learning and further development. It highlights the potential of web development to create meaningful solutions for everyday challenges. With opportunities for future enhancements such as data visualization, export options, and authentication, the Expense Tracker can evolve into a more robust and comprehensive tool. As it stands, the project is a valuable example of how simple yet effective applications can impact users positively.