**WEB TECHNOLOGY**

**CASE STUDY**

**GITHUB LINK :** [**https://github.com/Jyothi84300/WEB-DEVELOPMENT/blob/cbb90f200980aa8bca158736275a058a6c00bbbc/EXPENSE%20TRACKER**](https://github.com/Jyothi84300/WEB-DEVELOPMENT/blob/cbb90f200980aa8bca158736275a058a6c00bbbc/EXPENSE%20TRACKER)

**TOPIC :** An **Expense Tracker** is an app that helps you keep track of your spending. You can add your expenses, organize them into categories like food or travel, and see how much money you’ve spent. It also shows reports to help you manage your budget and save money.

**KEY FEATURES :**

 **Add Expenses:** Record daily expenses easily.

 **Category Management:** Organize expenses into categories.

 **Budget Tracking:** Set and monitor budgets.

**CODE :**

<!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>

    <style>

        /\* style.css \*/

        <style>

        /\* style.css \*/

        body {

            font-family: Arial, sans-serif;

            background-color: #f0f0f0;

            margin: 0;

            padding: 0;

        }

        .container {

            max-width: 800px;

            margin: 50px auto;

            padding: 20px;

            background: rgba(255, 255, 255, 0.2);

            box-shadow: 0 4px 30px rgba(0, 0, 0, 0.1);

            backdrop-filter: blur(10px);

            border-radius: 8px;

            border: 1px solid rgba(255, 255, 255, 0.3);

        }

        h1 {

            text-align: center;

            margin-bottom: 20px;

            color: #333;

        }

        form {

            display: flex;

            flex-direction: column;

            gap: 10px;

            padding: 20px;

            background: rgba(144, 238, 144, 0.3); /\* Light green \*/

            border-radius: 8px;

            backdrop-filter: blur(10px);

            box-shadow: 0 4px 10px rgba(0, 0, 0, 0.1);

        }

        form input, form select, form button {

            padding: 10px;

            border: 1px solid rgba(255, 255, 255, 0.3);

            border-radius: 4px;

            font-size: 16px;

            background: rgba(255, 255, 255, 0.2);

            backdrop-filter: blur(5px);

            color: #333;

        }

        form button {

            background-color: #28a745;

            color: white;

            border: none;

            cursor: pointer;

        }

        form button:hover {

            background-color: #218838;

        }

        .expense-table table {

            width: 100%;

            border-collapse: collapse;

            margin-bottom: 20px;

        }

        .expense-table th, .expense-table td {

            padding: 10px;

            border: 1px solid #ddd;

            text-align: left;

        }

        .expense-table th {

            background-color: #f8f8f8;

        }

        .total-amount {

            text-align: right;

            font-size: 18px;

        }

        .filter {

            margin-bottom: 20px;

            text-align: right;

        }

        .filter label {

            margin-right: 10px;

        }

        .filter select {

            padding: 10px;

            border: 1px solid #ccc;

            border-radius: 4px;

        }

        .login-form, .register-form {

            display: none;

            margin-bottom: 20px;

        }

        .login-form.active, .register-form.active {

            display: block;

        }

        .error {

            color: red;

            font-size: 14px;

        }

    </style>

</head>

<body>

    <div class="container">

        <h1>Expense Tracker</h1>

        <form id="expense-form">

            <input type="text" id="expense-name" placeholder="Expense Name" required />

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

            <select id="expense-category" required>

                <option value="" disabled selected>Select Category</option>

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

                <option value="Transport">Transport</option>

                <option value="Entertainment">Entertainment</option>

                <option value="Other">Other</option>

            </select>

            <input type="date" id="expense-date" required />

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

        </form>

        <div class="expense-table">

            <table>

                <thead>

                    <tr>

                        <th>Expense Name</th>

                        <th>Amount</th>

                        <th>Category</th>

                        <th>Date</th>

                        <th>Action</th>

                    </tr>

                </thead>

                <tbody id="expense-list"></tbody>

            </table>

            <div class="total-amount">

                <strong>Total:</strong> $<span id="total-amount">0</span>

            </div>

        </div>

        <div class="filter">

            <label for="filter-category">Filter by Category:</label>

            <select id="filter-category">

                <option value="All">All</option>

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

                <option value="Transport">Transport</option>

                <option value="Entertainment">Entertainment</option>

                <option value="Other">Other</option>

            </select>

        </div>

    </div>

    <script >//script.js

        document.addEventListener("DOMContentLoaded", () => {

            const expenseForm = document.getElementById("expense-form");

            const expenseList = document.getElementById("expense-list");

            const totalAmount = document.getElementById("total-amount");

            const filterCategory = document.getElementById("filter-category");

            let expenses = [];

            expenseForm.addEventListener("submit", (e) => {

                e.preventDefault();

                const name = document.getElementById("expense-name").value;

                const amount = parseFloat(document.getElementById("expense-amount").value);

                const category = document.getElementById("expense-category").value;

                const date = document.getElementById("expense-date").value;

                const expense = {

                    id: Date.now(),

                    name,

                    amount,

                    category,

                    date

                };

                expenses.push(expense);

                displayExpenses(expenses);

                updateTotalAmount();

                expenseForm.reset();

            });

            expenseList.addEventListener("click", (e) => {

                if (e.target.classList.contains("delete-btn")) {

                    const id = parseInt(e.target.dataset.id);

                    expenses = expenses.filter(expense => expense.id !== id);

                    displayExpenses(expenses);

                    updateTotalAmount();

                }

                if (e.target.classList.contains("edit-btn")) {

                    const id = parseInt(e.target.dataset.id);

                    const expense = expenses.find(expense => expense.id === id);

                    document.getElementById("expense-name").value = expense.name;

                    document.getElementById("expense-amount").value = expense.amount;

                    document.getElementById("expense-category").value = expense.category;

                    document.getElementById("expense-date").value = expense.date;

                    expenses = expenses.filter(expense => expense.id !== id);

                    displayExpenses(expenses);

                    updateTotalAmount();

                }

            });

            filterCategory.addEventListener("change", (e) => {

                const category = e.target.value;

                if (category === "All") {

                    displayExpenses(expenses);

                } else {

                    const filteredExpenses = expenses.filter(expense => expense.category === category);

                    displayExpenses(filteredExpenses);

                }

            });

            function displayExpenses(expenses) {

                expenseList.innerHTML = "";

                expenses.forEach(expense => {

                    const row = document.createElement("tr");

                    row.innerHTML = `

                        <td>${expense.name}</td>

                        <td>$${expense.amount.toFixed(2)}</td>

                        <td>${expense.category}</td>

                        <td>${expense.date}</td>

                        <td>

                            <button class="edit-btn" data-id="${expense.id}">Edit</button>

                            <button class="delete-btn" data-id="${expense.id}">Delete</button>

                        </td>

                    `;

                    expenseList.appendChild(row);

                });

            }

            function updateTotalAmount() {

                const total = expenses.reduce((sum, expense) => sum + expense.amount, 0);

                totalAmount.textContent = total.toFixed(2);

            }

        });

        </script>

</body>

</html>

**Functional Components :**

1. Add Expense Form:
   * Allows users to input expense details (name, amount, category, and date).
   * Submits data and adds it to the expense list.
2. Expense List Display:
   * Displays all expenses in a table format with expense details.
   * Provides options to edit or delete expenses**.**

**UI Components :**

1. Container:
   * A centered card-style layout for better visibility.
2. Header:
   * A title with a clean design using a large, bold font.
3. Form Section:
   * Form inputs for expense name, amount, category, and date.
   * A submit button with hover effects**.**

**OUTPUT :**

**A screenshot of a computer

AI-generated content may be incorrect.**

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