**📝 Project Report: Expense Tracker Using HTML, CSS, and JavaScript**

**📌 Project Title:**

**Personal Expense Tracker Web Application**

**📁 Technologies Used:**

* **Frontend**:
  + **HTML** – for structuring the user interface
  + **CSS** – for styling and layout
  + **JavaScript** – for dynamic behavior and logic

**🎯 Objective:**

To build a simple, lightweight web application that allows users to **track daily expenses**, **calculate total spending**, and **delete or clear all entries** – all within the browser using basic JavaScript logic.

**🔧 Features Implemented:**

1. **Add Expense:**
   * Users can enter a description and amount.
   * Input is validated for empty or invalid entries.
   * The expense is displayed along with the current **month** and **date**.
2. **Display Expense List:**
   * Each entry shows: Description: ₹Amount (Month Date)
   * Each item includes a **Delete** button to remove it.
3. **Total Expense Calculation:**
   * Automatically updates when a new expense is added.
   * Adjusts correctly if an item is deleted.
4. **Clear All:**
   * Removes all entries from the expense list.
   * Resets the total amount to 0.

**🧠 JavaScript Concepts Used:**

* **DOM Manipulation** using getElementById, createElement, appendChild
* **Event Handling** with onclick for button actions
* **Form Input Validation**
* **Date Manipulation** using Date object
* **String Interpolation** using template literals

**🖼️ User Interface:**

* Clean and minimal layout using CSS.
* Responsive input fields and buttons.
* Clear display of each expense entry and total.

**📂 File Structure:**

pgsql

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ExpenseTracker/

├── index.html

├── style.css

└── script.js

**📋 Sample Code Highlights:**

**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="style.css" />

</head>

<body>

<div class="container">

<h1>Expense Tracker</h1>

<div class="input-section">

<input type="text" id="desc" placeholder="Expense description" />

<input type="number" id="amount" placeholder="Amount (₹)" />

<button onclick="addExpense()">Add Expense</button>

<button onclick="clearAll()" class="clear-btn">Clear All</button>

</div>

<ul id="expenseList"></ul>

<h2>Total: ₹<span id="total">0</span></h2>

</div>

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

</body>

</html>

**CSS**

body {

font-family: Arial, sans-serif;

background-color: #f0f2f5;

margin: 0;

padding: 0;

}

.container {

width: 90%;

max-width: 500px;

margin: 50px auto;

background-color: white;

padding: 20px 30px;

box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);

border-radius: 10px;

}

h1, h2 {

text-align: center;

color: #333;

}

.input-section {

display: flex;

flex-direction: column;

gap: 10px;

}

input[type="text"],

input[type="number"] {

padding: 10px;

font-size: 16px;

border: 1px solid #ccc;

border-radius: 6px;

}

button {

padding: 10px;

font-size: 16px;

border: none;

background-color: #007bff;

color: white;

border-radius: 6px;

cursor: pointer;

}

button.clear-btn {

background-color: #dc3545;

}

button:hover {

opacity: 0.9;

}

#expenseList {

list-style-type: none;

padding: 0;

margin-top: 20px;

}

#expenseList li {

background-color: #f8f9fa;

padding: 10px 15px;

margin: 8px 0;

border-radius: 6px;

display: flex;

justify-content: space-between;

align-items: center;

}

#expenseList button {

background-color: #ff4d4d;

padding: 5px 10px;

border-radius: 5px;

font-size: 14px;

}

**SCRIPT.JS**

let totalAmount = 0;

function addExpense() {

const descInput = document.getElementById("desc");

const amountInput = document.getElementById("amount");

const description = descInput.value.trim();

const amount = Number(amountInput.value);

if (description === "" || isNaN(amount) || amount <= 0) {

alert("Please enter a valid description and amount");

return;

}

const today = new Date();

const day = today.getDate();

const month = today.toLocaleString('default', { month: 'long' });

const li = document.createElement("li");

li.textContent = `${description}: ₹${amount} (${month} ${day})`;

const delBtn = document.createElement("button");

delBtn.textContent = "Delete";

delBtn.onclick = () => {

totalAmount -= amount;

document.getElementById("total").textContent = totalAmount;

li.remove();

};

li.appendChild(delBtn);

document.getElementById("expenseList").appendChild(li);

totalAmount += amount;

document.getElementById("total").textContent = totalAmount;

descInput.value = "";

amountInput.value = "";

}

function clearAll() {

document.getElementById("expenseList").innerHTML = "";

totalAmount = 0;

document.getElementById("total").textContent = totalAmount;

}

**✅ Outcome:**

* Successfully implemented a browser-based expense tracker.
* Learned and applied real-world use of HTML, CSS, and JavaScript.
* Understood how to manage data without a backend by dynamically handling the DOM.

**📈 Scope for Future Improvements:**

* Save data using **LocalStorage** or **Firebase**
* Add categories and date filters
* Visualize expenses using **charts**
* User login system with backend