Build an Expense Tracker with HTML CSS and JavaScript

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Managing personal finances is essential for maintaining a healthy financial life. One effective way to achieve this is by keeping track of expenses. In this article, we'll learn how to create a simple expense tracker using HTML, CSS, and JavaScript. By the end, you'll have a functional web application that allows you to add and remove expenses, helping you gain better control over your spending.

Prerequisites:

To follow along with this tutorial, you should have a basic understanding of HTML, CSS, and JavaScript. Familiarity with concepts such as form handling, event handling, and DOM manipulation will be beneficial. You'll also need a text editor and a web browser to run the code.

Approach:

HTML 👍

// index.html

```html
<!DOCTYPE html>

<html>


<head>

   <title>Expense Tracker</title>

   <link rel="stylesheet" type="text/css" href="style.css" />

</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>
```

```html
        <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>
```

```html
      </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>
```

```html
        </div>

    </div>

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

</body>


</html>
```

CSS :

```css
/* style.css */

body {

    font-family: Arial, sans-serif;

    background-color: #f0f0f0;

    margin: 0;

    padding: 0;

}


.container {

    max-width: 800px;
```

```css
    margin: 50px auto;

    padding: 20px;

    background-color: #fff;

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

    border-radius: 8px;

}


h1 {

    text-align: center;

    margin-bottom: 20px;

}

form {

    display: flex;

    gap: 10px;

    margin-bottom: 20px;

}
```

```css
form input, form select, form button {

    padding: 10px;

    border: 1px solid #ccc;

    border-radius: 4px;

}


form button {

    background-color: #28a745;

    color: white;

    border: none;

    cursor: pointer;

}


form button:hover {

    background-color: #218838;

}
```

```css
.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;

}
```

```css
.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;

}


JAVASCRIPT:

//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;
```

```javascript
    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();
```

```javascript
      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;
```

```javascript
        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 {
```

```javascript
        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);

  }

});
```