

Task: "Countdown Timer with Event Announcement"

Objective:

Create a **Countdown Timer** that allows the user to input the **time remaining** in seconds for a specific **event** and the **event name**. The timer will count down and, when the time reaches zero, it will display a message announcing that the event has started.

Requirements:

1. Create the Product Registration Form:

- a. The form should include the following fields:
 - i. **Event Name** (text input)
 - ii. **Time Remaining** (number input, in seconds)
- b. Add a **"Submit"** button labeled **"Start Countdown"**.

2. Form Validation:

- a. Validate the following before starting the countdown:
 - i. **Event Name** cannot be empty.
 - ii. **Time Remaining** must be a positive number (greater than 0).

3. Start the Countdown:

- a. Once the user clicks **"Start Countdown"**, the countdown should start and the remaining time should be displayed in seconds.
- b. After the countdown ends, display a message announcing that the event has started.

4. Display Countdown Information:

- a. Show the remaining time under the form, updated every second, e.g., **"Time Remaining: 10 seconds"**.
- b. When the countdown reaches **0**, display a message like: **"Event [Event Name] has started!"**.

5. Use `setTimeout` and `setInterval`:

- a. Use `setInterval()` to update the countdown every second.
- b. Use `setTimeout()` to display the message about the event after the countdown ends.

6. Bonus Feature: Search Event by Name:

- a. Add a search bar to filter the events by **Event Name**.

- b. The list of events should update in real-time as the user types in the search field.

7. Styling:

- a. Use **HTML** and **CSS** to style the form and the countdown display in a clean and user-friendly way.
- b. Add some basic styling to ensure the form, countdown timer, and event message are easy to read.

Deliverables:

- HTML, CSS, and JavaScript code that implements the countdown timer, event display, and form validation.
- The **JavaScript code** should handle the countdown logic, the update of the remaining time, and the event announcement.

Important Notes:

- Ensure that the form inputs are **validated** before submitting.
- Use **addEventListener** for handling the form submission and starting the countdown.
- **setInterval()** should be used to update the remaining time every second, and **setTimeout()** should be used to announce the event when the countdown reaches zero.

Good Luck! 🍀