

Problem Statement: Social Media Like Widget

Context:

You are building a social media post component. The post itself (the parent) needs to display the total number of likes. The act of liking is handled by a separate, reusable `LikeButtonComponent`.

Your Task:

- Develop a `LikeButtonComponent` (the child) that:
 - Renders a "Like" button.
 - Tracks how many times it has been clicked.
 - Does not display the count itself.
 - **Emits an event** every time it is clicked, sending the new total number of clicks to whoever is using it (its parent component).
- Develop a `PostComponent` (the parent) that:
 - Uses the `<app-like-button>` in its template.
 - Listens for the event from the like button.
 - Captures the emitted count and stores it.
 - Displays the total number of likes received from the child component.

Technical Requirements:

- The child component must use `EventEmitter` with the `@Output()` decorator.
- The parent must handle the event without using template reference variables (`#`) to access the child's state directly.

Success Metrics: The parent component correctly displays a count that increments each time the child's button is clicked, demonstrating successful child-to-parent communication.