Communication between Events in LWC

LWC dispatches standard DOM events. Components can also create and dispatch custom events.

We use events to communicate up in the containment hierarchy. Use custom events to pass data from child to parent component.

The DOM events system is a programming design pattern that includes these elements.

1. An event name, called a type
2. A configuration to initialize the event
3. A JavaScript object that emits the event

In Lightning web components, CustomEvent provides a more consistent experience across browsers, including Internet Explorer. It requires no setup or boilerplate, and it allows you to pass any kind of data via the **detail** property, which makes it flexible.

To communicate down the component containment hierarchy, pass properties to the child via HTML attributes, or call its public methods. To communicate between components, use Lightning message service or a publish-subcribe utility.

# Ways to Communicate between components

There are 3 ways in which two components can communicate between each other and exchange data.

1. Communication using a public method -> Used to communicate from Parent to child. When we need to send data from Parent to child we use this approach.
2. Communication using a custom event -> Used to communicate from child to Parent. When you need to pass data from child to Parent we need to use custom events.
3. Use Lightning Message Service(LMS) or Pub-Sub Model to communicate between events which are not in the same containment hierarchy. Components which are not related to each other, we can use LMS or PubSub to communicate b/w them.