

REACT

Portals



LEARNING OBJECTIVES



Learn to render React elements outside of the DOM hierarchy of the parent component



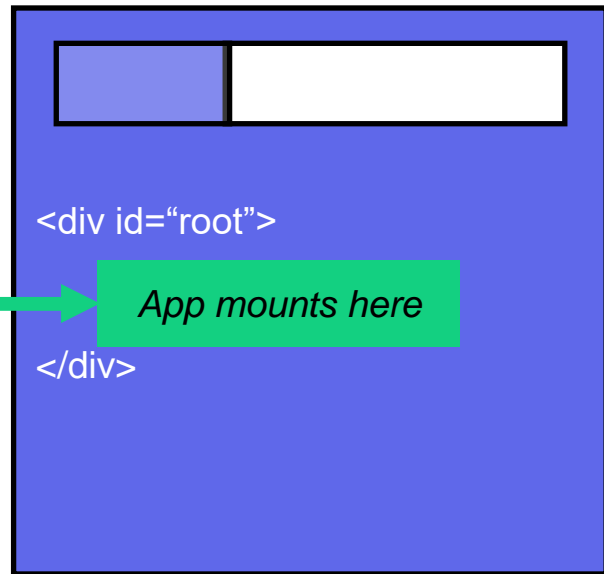
Examine the use of the `createPortal` function from the React-DOM library



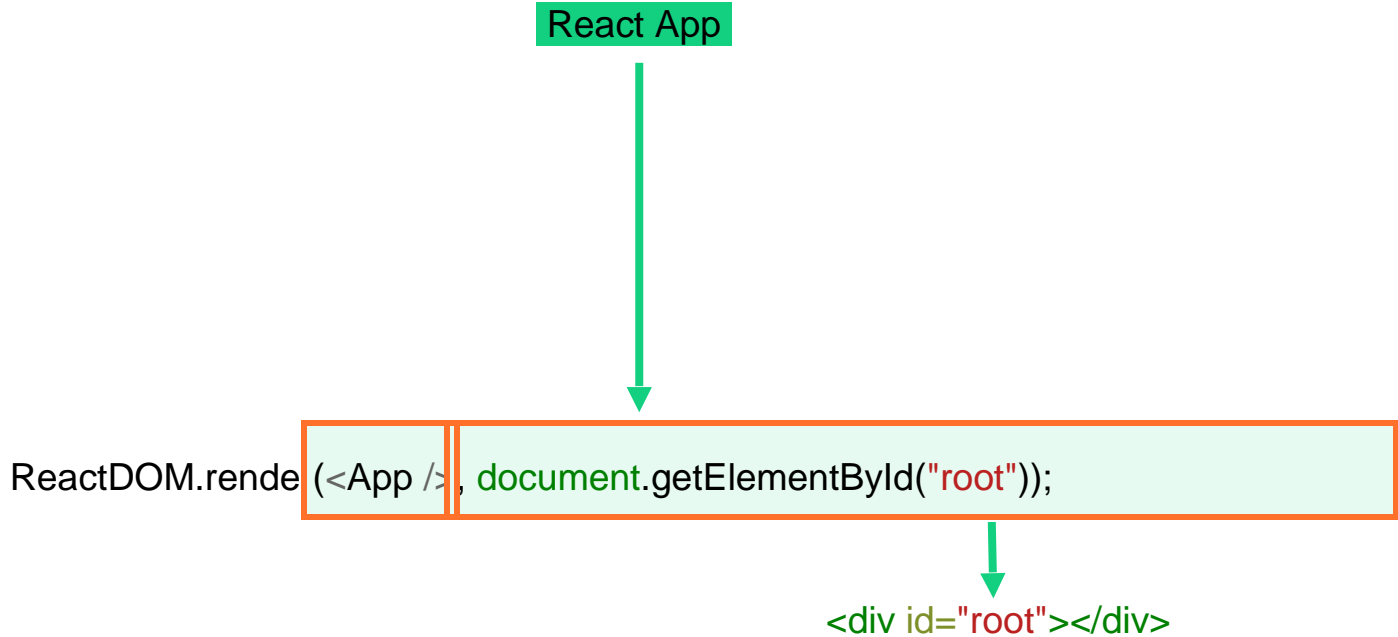
RENDER OUTSIDE DOM

PORTALS

`<ReactApp />`



PORTALS



Entire React application gets rendered inside one single DOM element in an HTML file

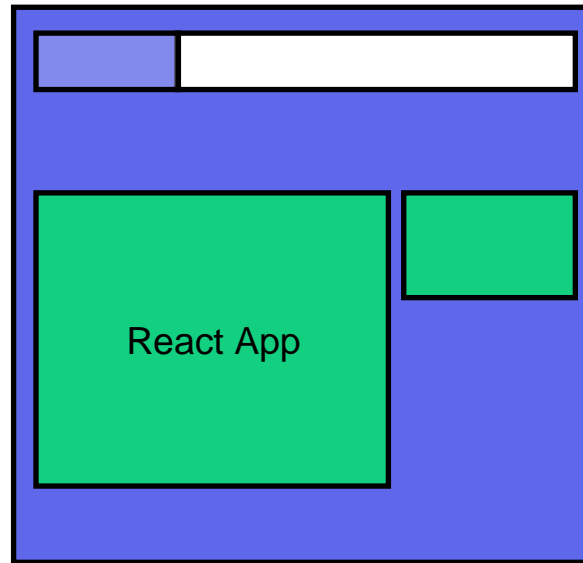
PORTALS

React can be incrementally brought in, to an existing project

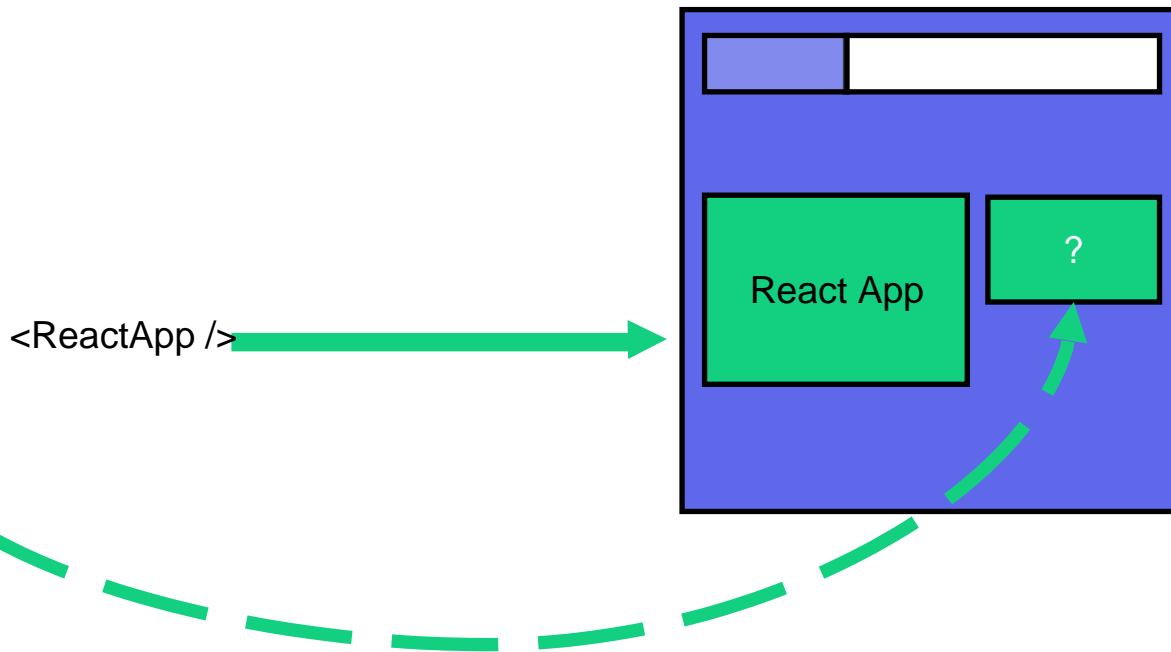


PORTALS

`<ReactApp />`



PORTALS



Every DOM node that your React application generates, will be done inside this container because we're mounting our app here.

PORTALS

What if you want this React app to render something in a div, outside of this parent container?

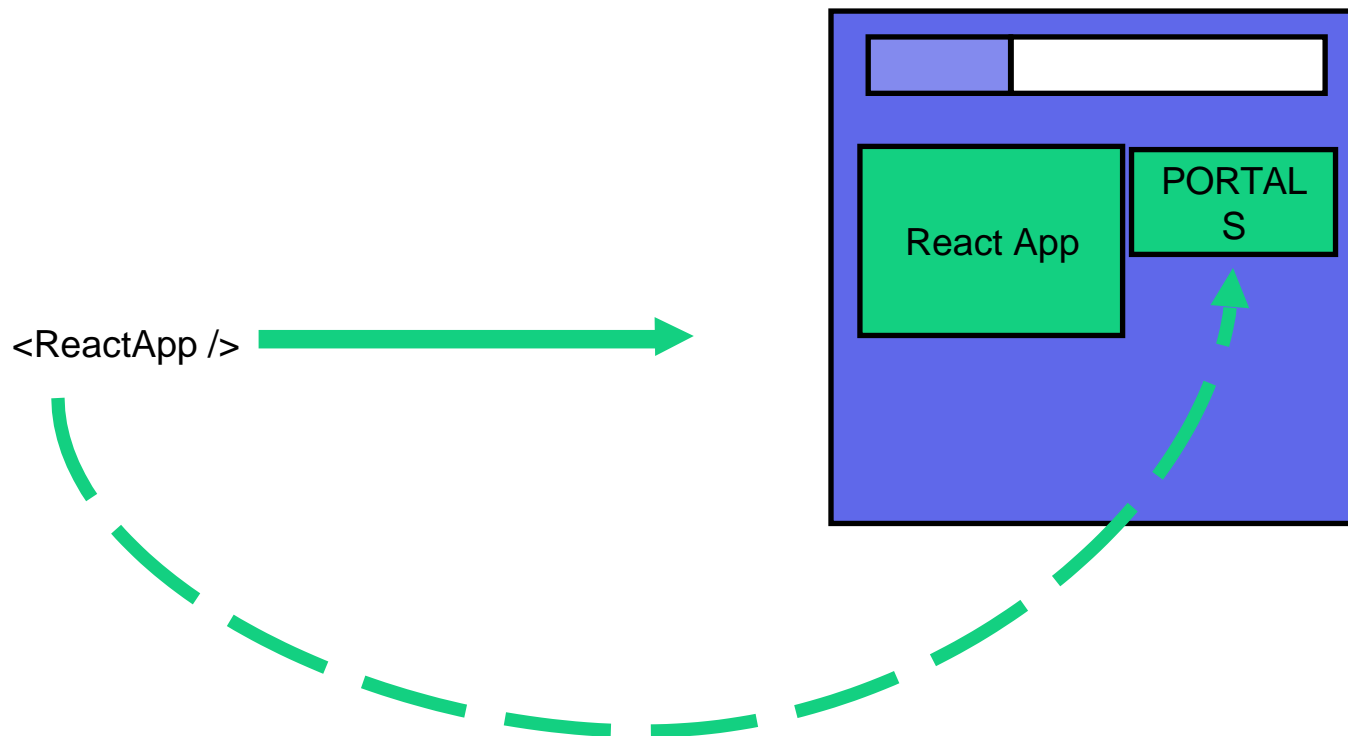
```
<div>  
.....  
.....  
.....  
</div>
```

What if it is a modal dialog or some notification display that needs to be rendered in a DOM node outside the hierarchy of the parent DOM node?

This is a notification!



PORTALS



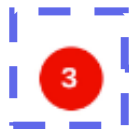
HANDS ON

Download & Setup

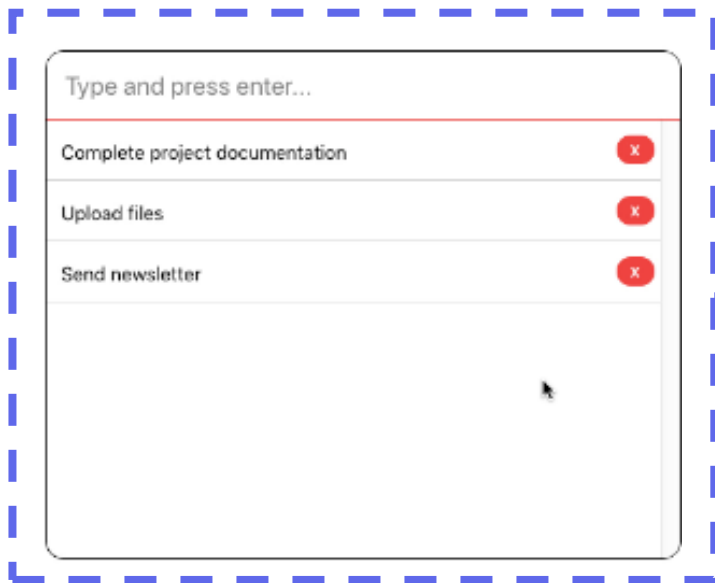


http://bit.ly/react_portals

PORTALS



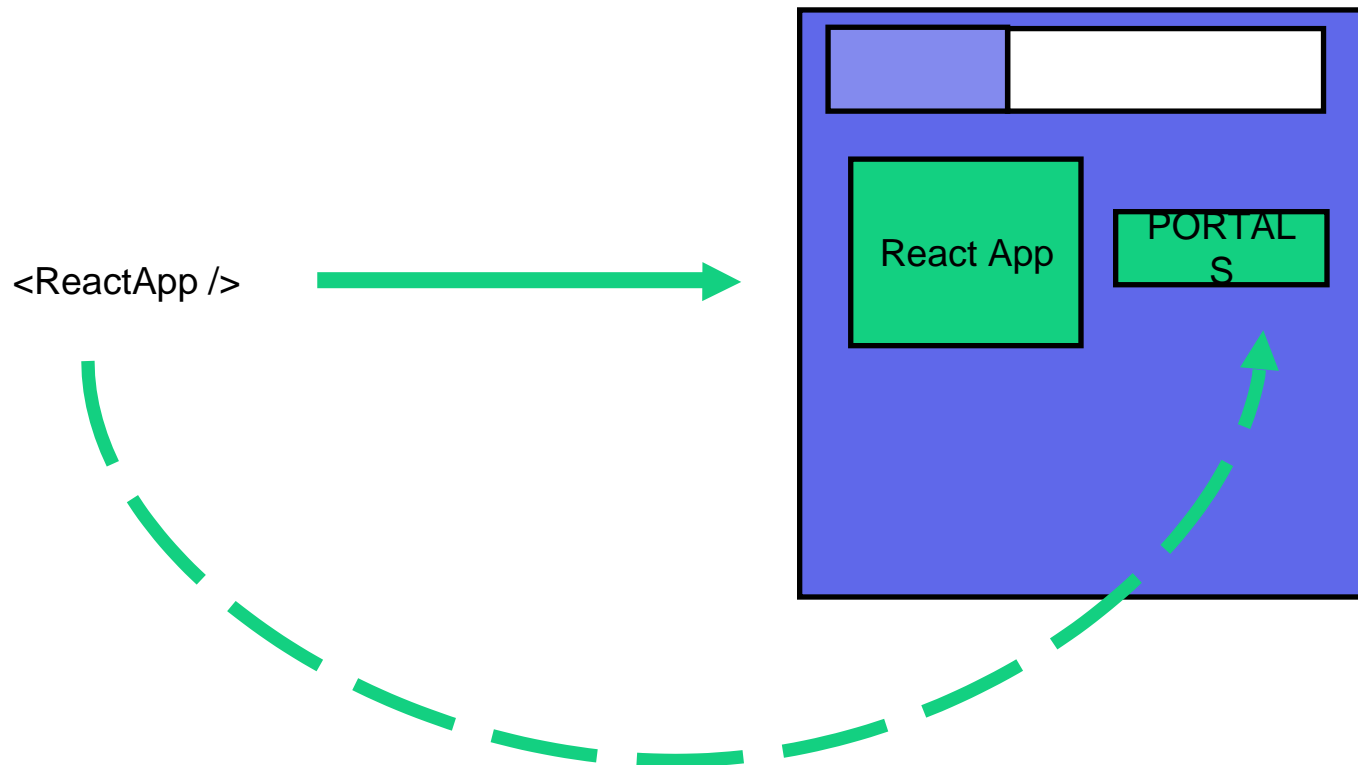
```
<div id="task-count"></div>
```



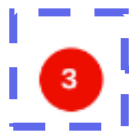
```
<div id="root"></div>
```

CREATE PORTAL

EVENT BUBBLING IN PORTALS

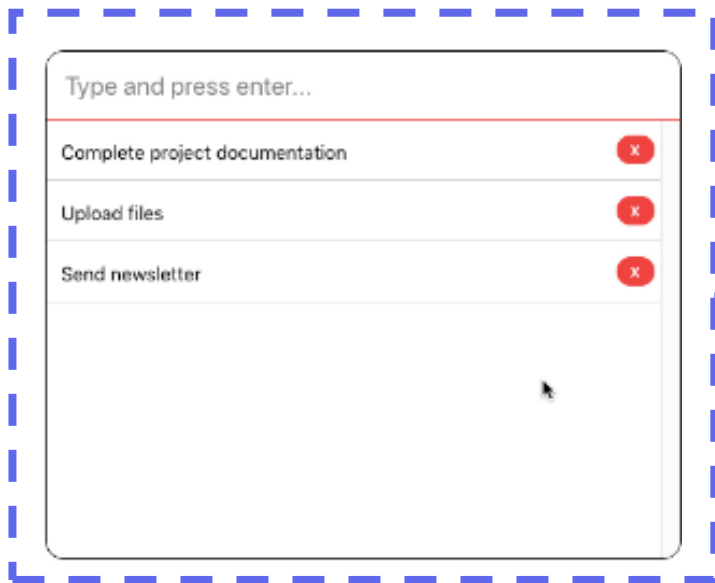


EVENT BUBBLING IN PORTALS



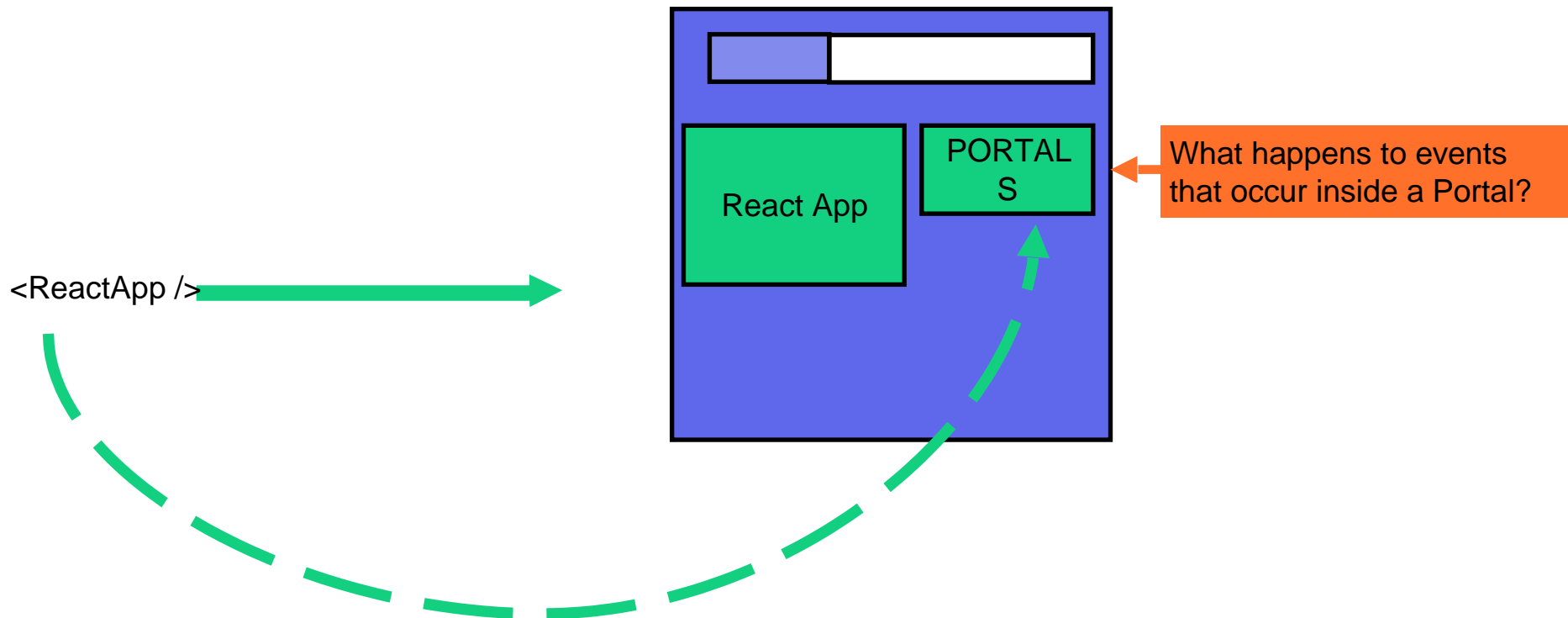
`<div id="task-count"></div>`

This is outside of the container where React mounts the app and yet you can access it using a Portal

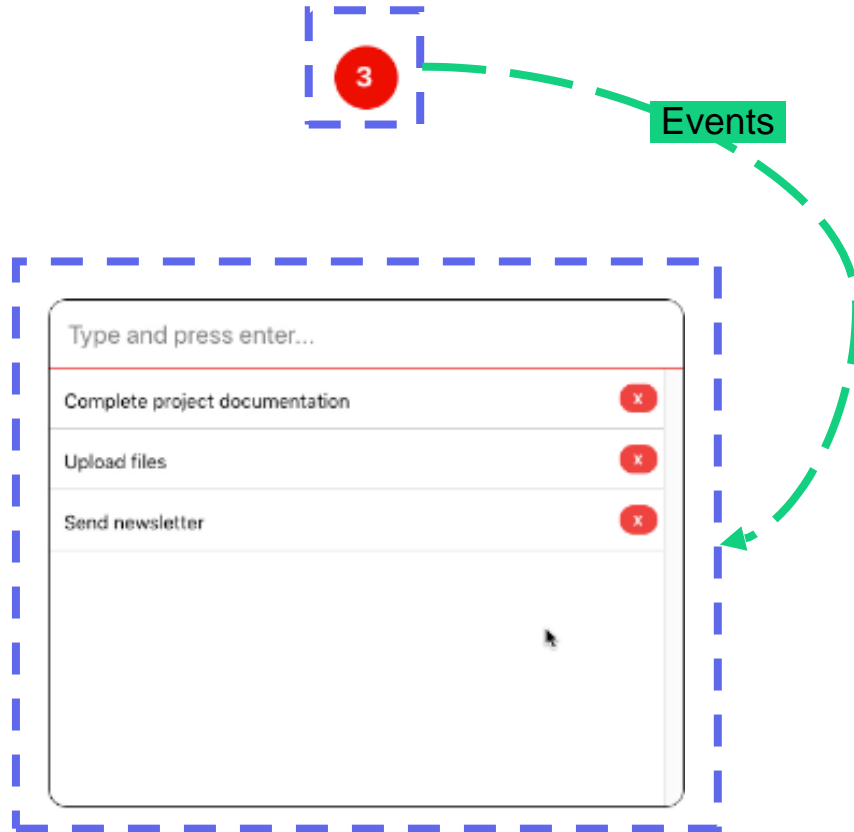


`<div id="root"></div>`

EVENT BUBBLING IN PORTALS

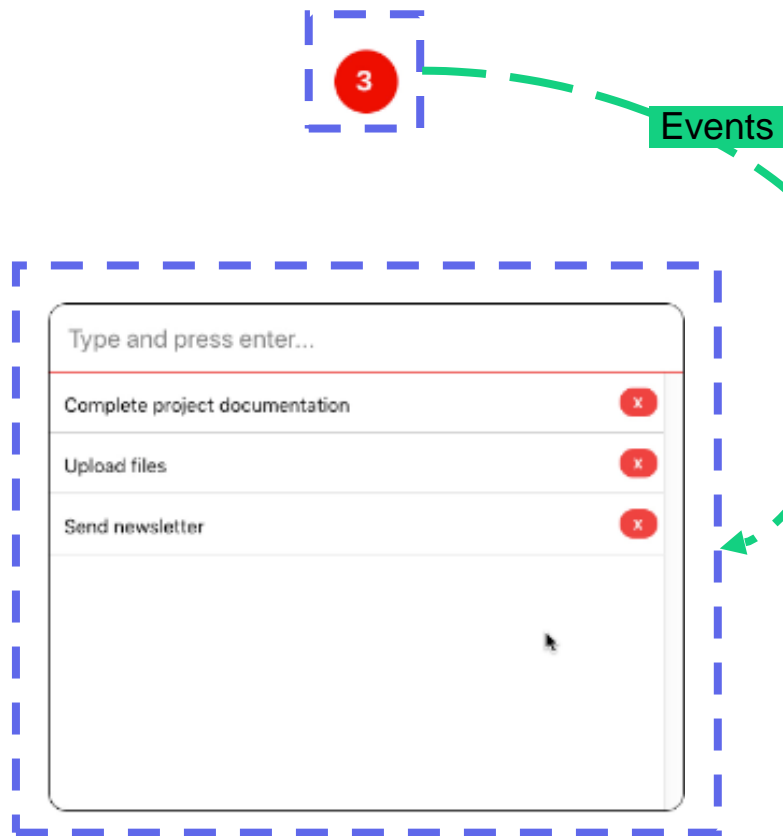


EVENT BUBBLING IN PORTALS



Elements in a Portal are considered first class children of the parent component's hierarchy

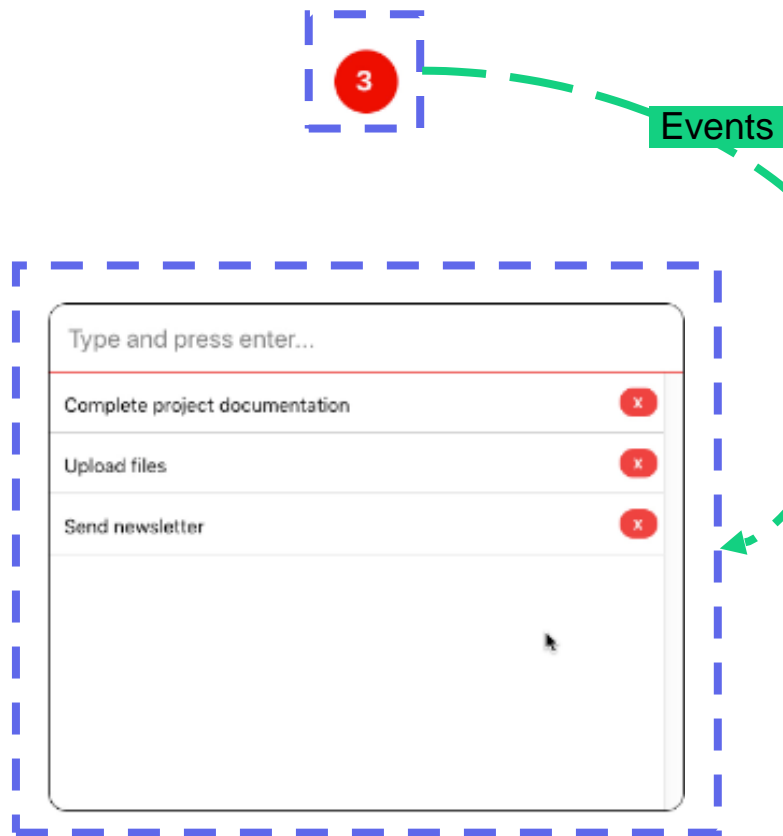
EVENT BUBBLING IN PORTALS



Elements in a Portal are considered first class children of the parent component's hierarchy

Portals make it easy to visualize and work with events because to us, every element is part of a single hierarchy

EVENT BUBBLING IN PORTALS



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Portals make it easy to visualize and work with events because to us, every element is part of a single hierarchy

We intercepted a click in this example because there was no click event listener assigned on the TaskInput component



thank you!