Keeping Value Constant

WE'LL COVER THE FOLLOWING Using useRef to Ensure Value Remains Constant Final Implementation of Expandable Quick Quiz!

Using useRef to Ensure Value Remains Constant

The solution to this problem is simple. We can use the useRef hook to ensure that a value stays the same throughout component's entire lifetime.

Here's how it works:

```
//correct implementation
  const componentJustMounted = useRef(true)
  useEffect(
    () => {
        if (!componentJustMounted.current) {
            onExpand(expanded)
        }
        componentJustMounted.current = false
    },
    [expanded]
)
```

useRef returns a ref object, and the value stored in the object may be retrieved from the current property, ref.current

The signature for useRef looks like this: useRef(initialValue).

This means that a ref object is stored initially in componentJustMounted.current with the current property set to true.

```
const componentJustMounted = useRef(true)
```

After invoking the user callback, we then update this value to false.

```
componentJustMounted.current = false
```

Now, whenever there's a state or prop change, the value in the ref object isn't tampered with. It remains the same.

With the current implementation, whenever the expanded state value is toggled, the user callback function on Expanded will be invoked with the current value of expanded.

Final Implementation of Expandable

Here's what the final implementation of the **Expandable** component looks like:

```
import React, { createContext, useState, useCallback, useRef, useEffect, useMemo } from 'reac
const ExpandableContext = createContext()
const { Provider } = ExpandableContext
const Expandable = ({ children, onExpand }) => {
  const [expanded, setExpanded] = useState(false)
  const toggle = useCallback(
    () => setExpanded(prevExpanded => !prevExpanded),
    []
  const componentJustMounted = useRef(true)
  useEffect(
    () => {
    if (!componentJustMounted.current) {
        onExpand(expanded)
     componentJustMounted.current = false
    },
    [expanded]
  const value = useMemo(
   () => ({ expanded, toggle }),
   [expanded, toggle]
  return (
    <Provider value={value}>
        {children}
    </Provider>
}
export default Expandable
```

Quick Quiz!

Quiz yourself on what we've learned so far.



If you've followed along so far, that's great! We've broken down the most complex component in the bunch. Now, let's move on to the child components.