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BSIT Elective

Essay:

1. Create a sample code snippet that demonstrates passing a callback function from a parent component down to its child(ren) component.

const { Component } = React;

const { render } = ReactDOM;

class Parent extends Component {

render() {

return (

<div>

<Child ref={instance => { this.child = instance; }} />

<button onClick={() => { this.child.getAlert(); }}>Click</button>

</div>

);

}

}

class Child extends Component {

getAlert() {

alert('clicked');

}

render() {

return (

<h1>Hello</h1>

);

}

}

render(

<Parent />,

document.getElementById('app')

);

1. Explain props-drilling.

Prop Drilling is the process by which you pass data from one part of the React Component tree to another by going through other parts that do not need the data but only help in passing it around. This may continue until the data gets to the ComponentNeedingProps. Prop drilling, even with its downsides, is still a viable method of data transfer between components and should be used for relatively small applications. However, it is not recommended as the major method of data transfer when you are working with larger applications.

Prop drilling at its most basic level is simply explicitly passing values throughout the view of your application. This is great because if you were coming to the Toggle above and decided you want to refactor the on state to be an enum, you'd easily be able to track all places it's used by following the code statically and make that update and one of the most common gripes with React. We can add a prop or event handler in a component way down the hierarchy and forced to add it to every parent component as well.