Knowledge check: Table booking system

Practice Quiz • 15 min • 5 total points

Congratulations! You passed!

Grade received 100% **To pass** 80% or higher

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1. What is the purpose of the `useState` hook in React?

1 / 1 point

○ To bind an event handler to an element.

○ To bind a value to the props of a component.

○ To manage the component's context

● To manage the component's state

✓ **Correct**
That's correct. The `useState` hook allows you to manage the component's state by declaring a state variable and a setter function for updating the state.

2. What is missing from the code below?

1 / 1 point

```
import { useState } from "react";

export default function App() {
  const [restaurantName, setRestaurantName] = useState();
  return <h1>{restaurantName}</h1>;
}
```

● An initial value for the state variable `restaurantName`

○ The `useState` hook import statement

○ The `setRestaurantName` function.

○ `useReducer` hook was not used

✓ **Correct**
That's correct. The `useState` hook requires an initial value to be passed as an argument in order to properly bind a value to the state of a component. Without an initial value, the state variable `restaurantName` will be undefined and the component will not render correctly.

3. Controlled components keep their internal state in the DOM

1 / 1 point

○ True

● False

✓ **Correct**
That's correct. Uncontrolled components keep their state in the DOM, but not controlled components

4. What is unit testing in React?

1 / 1 point

○ A type of testing that involves manually testing a component's UI.

● A type of testing that ensures that individual units of code are working as intended.

○ A type of testing that ensures that a complete application is working as intended.

○ A type of testing that ensures that a component's props and state are correctly being passed down to its children.

✓ **Correct**
That's correct. Unit testing involves testing individual units of code to ensure that they are working as intended.

5. What is the main difference between the `useState` and `useReducer` hooks in React?

1 / 1 point

○ `useState` is used for managing component state, while `useReducer` is used for managing global state.

○ `useState` is used for managing component state, while `useReducer` is used for managing the component lifecycle.

● `useState` is used for simple state updates, while `useReducer` is used for complex state updates.

○ `useState` is used for managing component state, while `useReducer` is used for managing the component's UI.

✓ **Correct**

That's correct. The `useState` hook is used for simple state updates, while the `useReducer` hook is used for more complex state updates that involve reducing the current state and an action to a new state.