MODULE-2 TW-02 TEAM LEAD VERSION

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

▶ Icebreaking

▶ Workshop Activities - Tuesday

▶ Teamwork Activities - Friday

   ▶ Questions

   ▶ Interview Questions

▶ Video of the week

▶ Retro meeting

▶ Case study / project

Teamwork Schedule

Ice-breaking   10m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Workshop Activities (Tuesday)   90m

- [NBA Legends App](#)

> * *The solution of the project will be held on Thursday, December 7th.*

Team Work Activities (Friday)   90m

Ask Questions   20m

1. If you see the following import in a file, what is being used for state management in the component?

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

A. React Hooks
B. stateful components
C. math
D. class components

Answer: A

2. What is `[e.target.id]` called in the following code snippet?

```
handleChange(e) {
  this.setState({ [e.target.id]: e.target.value })
}
```

A. a computed property name
B. a set value
C. a dynamic key
D. a JSX code string

Answer: C

3. What is `setCount`?

```
const [count, setCount] = useState(0);
```

A. the initial state value
B. a variable
C. a state object
D. a function to update the state

Answer: D

4. You are rendering a list with React when this warning appears in the console: "Warning: Each child in a list should have a unique 'key' prop." How do you fix this issue?

A. Pass the name of each item as its key.
B. Add a key prop with the same value to each item the list.
C. Clear the console warnings.
D. When iterating over the list items, add a unique property to each list item.

Answer: D

5. What is the first file loaded by the browser in a basic React project?

A. src/App.js
B. src/index.js
C. public/manifest.json
D. public/index.html

Answer: D

6. How can you include Bootstrap in a React project?

A. Linking via CDN in HTML file
B. Installing via npm and importing in JavaScript file
C. Copy-pasting Bootstrap code into React components
D. Bootstrap is included by default in React

Answer: B

7. What is the purpose of the useState hook in React?

A. To handle side effects
B. To handle events
C. To manage state in functional components
D. To manage state in class components

Answer: C

8. In a controlled component, where is the form data stored?

A. In the browser's local storage
B. In the component's props
C. In the global Redux store
D. In the component's state

Answer: D

9. What pattern is being used in this code block?

```
const { tree, lake } = nature;
```

A. function defaults
B. array destructuring
C. PRPL(Push, Render, Pre-cache, Lazy-load) pattern
D. destructuring assignment

Answer: D

10. The lifecycle methods are mainly used for ....?

A. keeping track of event history
B. enhancing components
C. freeing up resources
D. none of the above

Answer: C

11. In React, what is the purpose of the onClick event?

A. Handling mouse clicks
B. Handling keyboard inputs
C. Managing component state
D. Styling components

Answer: A

Interview Questions   15m

1. Can you explain the difference between the onClick and onChange events in React, and when would you use each one?

Answer :

    The onClick event is primarily used to handle mouse click events, such as when a button is clicked. On the other hand, the onChange event is used for form elements like input fields and is triggered when their values change. In summary, onClick is for handling mouse clicks, while onChange is for handling changes in input values.

2. How does the useEffect hook contribute to managing side effects in a React functional component?

Answer :

    The useEffect hook is used in functional components to manage side effects, such as data fetching, subscriptions, or manually changing the DOM. It takes a function that contains the code for the side effect and runs it after the component has rendered. This helps in avoiding side effects during the render phase and ensures that they occur after the component is painted to the screen, preventing unnecessary re-renders.

3. Explain the concept of controlled components in React and why they are important when working with forms.

Answer :

    Controlled components in React are form elements whose values are controlled by the state of the application. This means that the component's state is the single source of truth for the input value. Controlled components are crucial for React's unidirectional data flow, allowing for predictable and manageable form behavior. They also enable easier validation and manipulation of form data before submission.

4. How would you implement real-time data updates in a React application, and what role does state play in this scenario?

Answer :

    Real-time data updates can be achieved through technologies like WebSockets or server-sent events. React's state management, either through class component state or the useState hook, plays a crucial role in handling and displaying real-time updates. When new data is received, the state is updated, triggering a re-render and ensuring the UI reflects the latest information.

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Coffee Break   10m

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Retro Meeting on a personal and team level   5m

Ask the questions below:

- What went well?
- What went wrong?
- What is the improvement areas?

Case study/Project   15m

- Hospital App

> *The solution class will be held on Monday, December 11th.

Closing   5m

- Next week's plan
- QA Session