

# TW-015 GROUP VERSION

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coffee Break
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

## Workshop Activities

90m

## Ask Questions

30m

### 1. What is a React component lifecycle?

- A. A timeline of events in the component's existence
- B. A programming language for React
- C. A state management system in React
- D. A design pattern in React

### 2. In functional components, which React Hook is equivalent to componentDidMount in class components?

- A. useState
- B. useEffect
- C. useEffectMount
- D. useMount

### 3. Which lifecycle method is used for performing actions before a component receives new props or state?

- A. componentWillReceiveProps
- B. shouldComponentUpdate
- C. componentDidUpdate
- D. componentWillUpdate

### 4. Which Hook is used to conditionally run an effect in a functional component?

- A. useEffectConditional
- B. useConditionalEffect
- C. useEffect with a conditional statement inside
- D. useEffect with a dependency array

### 5. In functional components, what happens if you omit the dependency array in the useEffect Hook?

- A. It will result in a syntax error
- B. The effect will run on every render
- C. The effect will not run at all
- D. The component will not render

**6. Which method is called before rendering a functional component?**

- A. usePreRender
- B. preRenderEffect
- C. componentWillRender
- D. There is no specific method for this in functional components

**7. Which Hook in functional components is used to optimize performance by memoizing values between renders?**

- A. useEffectMemo
- B. useMemo
- C. useCallback
- D. useOptimize

**8. Consider the following React functional component that uses the useEffect Hook:**

```
import React, { useState, useEffect } from 'react';

const ExampleComponent = () => {
  const [count, setCount] = useState(0);

  useEffect(() => {
    console.log('Effect ran!');
    document.title = `Count: ${count}`;

    return () => {
      console.log('Cleanup function ran!');
    };
  }, [count]);

  const incrementCount = () => {
    setCount(count + 1);
  };

  return (
    <div>
      <p>Count: {count}</p>
      <button onClick={incrementCount}>Increment</button>
    </div>
  );
};
```

**Which of the following statements is true about the provided code?**

- A. The useEffect Hook runs only on the initial render of the component.
- B. The useEffect Hook runs when the incrementCount function is called.
- C. The cleanup function runs only when the component is unmounted.
- D. The useEffect Hook runs every time the component re-renders.

**9. What is React Router used for?**

- A. Managing the state of a React application
- B. Building a database for a React application
- C. Handling routing in a React application
- D. Loading a React Page

**10. React Router is a library that provides \_\_\_\_\_ in a single-page application.**

- A. Routing
- B. State management
- C. Component rendering
- D. Data fetching

**11. React Router uses a \_\_\_\_\_ component to render a component when its path matches the current URL.**

- A. Link
- B. Route
- C. Switch
- D. Redirect

**12. The component in React Router is used to create \_\_\_\_\_ between routes.**

- A. Navigation
- B. State management
- C. Data sharing
- D. Component rendering

**13. Which React Router hook provides access to the current location object?**

- A. useHistory
- B. useLocation
- C. useRouteMatch
- D. useParams

**14. How do you handle a 404 error in React Router?**

- A. By creating a new component for the 404 error page and rendering it in a <Route> component with no path specified
- B. By using the <Error404> component provided by React Router
- C. By using the <NotFound> component provided by React Router
- D. By creating a new route with a path of '\*' and rendering a 404 error page component in it

**15. What's the purpose of the BrowserRouter component?**

- A. To create new routes
- B. To understand all of its children Route elements, and intelligently choose which ones are the best to render.
- C. Allows React Router to pass the app's routing information down to any child component it needs (via context)
- D. To make navigating possible in native applications

**16. The useParams hook in React Router allows you to access URL parameters within a \_\_\_\_\_ component.**

- A. Class
- B. Functional
- C. Higher-order
- D. Stateful

**17. React Router allows you to perform client-side routing by manipulating the \_\_\_\_\_.**

- A. Server
- B. Database
- C. Browser history
- D. Context API

## Teamwork Schedule

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### Ice-breaking

**10m**

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

### Interview Questions

**30m****1. What is React Router?****2. How does browser history work in React Router?**

- 3. What is nested routing?
- 4. What do you understand about the 'to' attribute in React Router?
- 5. Explain the difference between server-side rendering and client-side rendering in React.

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Coffee Break 10m



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Video of the Week 10m

- [Basics of React Router](#)

Case study/Project 15m

- [Random User App](#)

Retro Meeting on a personal and team level 10m

Ask the questions below:

- What went well?
- What could be improved?
- What will we commit to do better in the next week?

Closing 5m

- Next week's plan
- QA Session

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