

TW-012 STUDENT VERSION (Sprint-7 Week-2)



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

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

Teamwork Schedule

Ice-breaking

5m

- 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.

Team work

5m

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Ask Questions

15m

1.What will happen when this useEffect Hook is executed, assuming name is not already equal to John?

```
useEffect(() => {  
  setName( 'John' );  
}, [name]);
```

- A.** It will cause an error immediately.
- B.** It will execute the code inside the function, but only after waiting to ensure that no other component is accessing the name variable.
- C.** It will update the value of name once and not run again until name is changed from the outside.
- D.** It will cause an infinite loop.

2. When using the React Developer Tools Chrome extension, what does it mean if the React icon is red?

- A.** You are using the development build of React.
- B.** You are using the production build of React.
- C.** You are using webpack.
- D.** You are using Create React App.

3. Which language can you not use with React?

- A.** JSX
- B.** Swift
- C.** Javascript
- D.** TypeScript

4. If a function component should always render the same way given the same props, what is a simple performance optimization available for it?

- A. Implement the `shouldComponentUpdate` lifecycle method.
- B. Implement the `useMemo` Hook.
- C. Implement the `useReducer` Hook.
- D. Wrap it in the `React.memo` higher-order component.

5. Why might you use `useReducer` over `useState` in a React component?

- A. When you need to manage more complex state in an app
- B. When you want to replace Redux
- C. When you want to improve performance
- D. When you want to break your production app

6. React does not render two sibling elements unless they are wrapped in a fragment. Below is one way to render a fragment. What is the shorthand for this?

```
<React.Fragment>
  <h1>Our Staff</h1>
  <p>Our staff is available 9-5 to answer your questions</p>
</React.Fragment>
```

- ☐ A

```
<...>
  <h1>Our Staff</h1>
  <p>Our staff is available 9-5 to answer your questions</p>
</...>
```

- ☐ B

```
<///>
  <h1>Our Staff</h1>
  <p>Our staff is available 9-5 to answer your questions</p>
<///>
```

- ☐ C

```
<>
  <h1>Our Staff</h1>
  <p>Our staff is available 9-5 to answer your questions</p>
</>
```

- ☐ D

```
<Frag>
  <h1>Our Staff</h1>
  <p>Our staff is available 9-5 to answer your questions</p>
</Frag>
```

7. The code below is rendering nothing, and there is an error that says "ReactDOM is not defined." How do you fix this issue?

```
import React from 'react';
import { render } from 'react-dom';

const element = <h1>Hi</h1>;

ReactDOM.render(element, document.getElementById('root'));
```

- A. ReactDOM(element, document.getElementById("root"));
- B. render(element, document.getElementById("root"));
- C. renderDOM(element, document.getElementById("root"));
- D. DOM(element, document.getElementById("root"));

8. Given this code, what will be printed in the `<h1>` tag?

```
const MyComponent = ({ children }) => (
  <h1>{children.length}</h1>
);
...
<MyComponent>
  <p>Hello</p>
  <p>Goodbye</p>
</MyComponent>
```

- A. It will produce an error saying "cannot read property 'length' of undefined."
- B. 1
- C. undefined
- D. 2

9. In this function, which is the best way to describe the Dish component?

```
function Dish() {  
  return (  
    <>  
    <Ingredient />  
    <Ingredient />  
  </>  
  );  
}
```

- A. child component
- B. parent component
- C. nested component
- D. sibling component

10. When does the componentDidMount function fire?

- A. right after the component is added to the DOM
- B. before the component is added to the DOM
- C. right after the component is updated
- D. right after an API call

Interview Questions**15m**

1. Why you can't update props in React?
2. What are default props?
3. Can you force a component to re-render without calling setState?
4. Why we need to pass a function to setState()?
5. What is the difference between createElement and cloneElement?

Coding Challenge

20m

- [Coding Challenge: JS-CC-07 Space Age](#)
-
-



Coffee Break

10m



Video of the Week

5m

- [Redux or Context in React](#)

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

Case study should be explained to the students during the weekly meeting and has to be completed in one week by the students. Students should work in small teams to complete the case study.

- [Clarusway Web Page with Router \(RP-09\)](#)

Closing

5m

-Next week's plan

-QA Session
