TW-008 STUDENT VERSION (Sprint-6 Week-1)

TEAMWORK

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

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

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

3. What can you use to handle code splitting?

A. `React.memo`
B. `React.split`
C. `React.lazy`
D. `React.fallback`

4. What is styled-component styling in React?

A. These styles are written as attributes and are passed to the element.

B. It is a JavaScript library for styling React applications. It removes the mapping between styles and components, and lets you write actual CSS augmented with JavaScript.

C. It is basically a .css file that is compiled. When compiled, it produces two outputs. One is CSS that is a modified version of input CSS with the renamed class names. The other is a JavaScript object that maps the original CSS name with the renamed name.

D. It offers a different approach in which no CSS needs to be written to style an application. Instead, It uses utility classes for each CSS property that you can use directly in your HTML or JSX.

5. 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

6. What is sent to an `Array.map()` function?

A.a callback function that is called once for each element in the array

B.the name of another array to iterate over

C.the number of times you want to call the function

D.a string describing what the function should do

7. What do you need to change about this code to get it to run?

```
class clock extends React.Component {
  render() {
    return <h1>Look at the time: {this.props.time}</h1>;
  }
}
```

A.Add quotes around the return value

B.Remove `this`

C.Remove the render method

D.Capitalize `clock`

8. How do you invoke setDone only when component mounts, using hooks?

```
function MyComponent(props) {
  const [done, setDone] = useState(false);

  return <h1>Done: {done}</h1>;
}
```

A. useEffect(() => { setDone(true); });
B. useEffect(() => { setDone(true); }, []);
C. useEffect(() => { setDone(true); }, [setDone]);
D. useEffect(() => { setDone(true); }, [done, setDone]);

9. You have created a new method in a class component called handleClick, but it is not working. Which code is missing?

```
class Button extends React.Component{

  constructor(props) {
    super(props);
    // Missing line
  }

  handleClick() {...}
}
```

A. this.handleClick.bind(this);
B. props.bind(handleClick);
C. this.handleClick.bind();
D. this.handleClick = this.handleClick.bind(this);

10. What property do you need to add to the Suspense component in order to display a spinner or loading state?

```
function MyComponent() {
  return (
    <Suspense>
      <div>
        <Message />
      </div>
    </Suspense>
  );
}
```

A. lazy
B. loading
C. fallback
D. spinner

11. Using object literal enhancement, you can put values back into an object. When you log person to the console, what is the output?

```
const name = 'Rachel';
const age = 31;
const person = { name, age };
console.log(person);
```

A. {{name: "Rachel", age: 31}}
B. {name: "Rachel", age: 31}
C. {person: "Rachel", person: 31}}
D. {person: {name: "Rachel", age: 31}}

12. 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

Interview Questions   15m

1. What is the difference between Element and Component?

2. What is the difference between state and props?

3. What is the difference between Shadow DOM and Virtual DOM?

4. What are the lifecycle methods of React?

5. How often does the React useState update? Why?

Coding Challenge   20m

- Coding Challenge: Random User App

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Coffee Break   10m

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Videos of the Week   5m

- React Router Setup in 5 minutes

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.

- RP-03 Task Tracker App

Closing   5m

-Next week's plan

-QA Session