TW-016 TEAM-LEAD VERSION

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

▶ Icebreaking

▶ Questions

▶ Interview Questions

▶ Coffee Break

▶ 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 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

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.

Answer:A

3. Which language can you not use with React?

A. JSX
B. Swift
C. Javascipt
D. TypeScript

Answer:B

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

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

A. function defaults
B. array destructuring
C. PRPL pattern
D. destructuring assignment

Answer: D

5. This code is part of an app that collects Pokemon. The useState hook below is a piece of state holding onto the names of the Pokemon collected so far. How would you access the collected Pokemon in state?

```
const PokeDex = (props) => {
  const [pokeDex, setPokeDex] = useState([]);
  /// ...
};
```

A.props.pokeDex
B.pokeDex
C.setPokeDex()
D.this.props.pokeDex

Answer: B

6. 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

Answer:B

7. 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

Answer:A

8. Why is it a good idea to pass a function to `setState` instead of providing a direct input?

A. It provides better encapsulation.
B. It makes sure that the object is not mutated.
C. It automatically updates a component.
D. `setState` is asynchronous and might result in out of sync values.

Answer:D

9. How do you add an id of heading to the following h1 element?

A. `let dish = <h1 id={heading}>Mac and Cheese</h1>;`
B. `let dish = <h1 id="heading">Mac and Cheese</h1>;`
C. `let dish = <h1 id:"heading">Mac and Cheese</h1>;`
D. `let dish = <h1 class="heading">Mac and Cheese</h1>;`

Answer:B

10. React separates the user interface into components. How are components combinded to create a user interface?

A. With code splitting
B. By putting them in a folder structure
C. By nesting components
D. With webpack

Answer:C

11. 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

12. What will happen if the following render() method executes?

```
render(){
let langs = ["Ruby","ES6","Scala"]
return (<div>
{langs.map(it => <p>{it}</p>)}
</div>)
}
```

A. Displays the list of languages in the array

B. Error. Cannot use direct JavaScript code in JSX

C. Displays nothing

D. Error. Should be replaced with a for..loop for correct output

Answer: A

13. What is the functionality of a `webpack` command?

A.Transfers all JS files to down into one file

B.A module builder

C.Runs react local development server

D.None of the above

Answer: C

14. Choose the correct statement in the context of uncontrolled components in ReactJS?

A.source of truth can be anything

B.source of truth is DOM

C.source of truth is a component state

D.None of the above

Answer: B

15. Consider the following component. What is the default color for the star?

```
const Star = ({ selected = true }) => <Icon color={selected ? 'red' : 'grey'} />;
```

A. You can not use ternaries in React.

B. white

C. red

D. grey

Answer: C

1. What is a state in React?

Answer:
The state is a built-in React object that is used to contain data or information about the component. The state in a component can change over time, and whenever it changes, the component re-renders.
The change in state can happen as a response to user action or system-generated events. It determines the behavior of the component and how it will render.

2. What are props in React?

Props are short for Properties. It is a React built-in object that stores the value of attributes of a tag and works similarly to HTML attributes. Props provide a way to pass data from one component to another component. Props are passed to the component in the same way as arguments are passed in a function.

3. Why you can't update props in React?

Answer:
The React philosophy is that props should be immutable and top-down. This means that a parent can send any prop values to a child, but the child can't modify received props.

4. What are default props?

Answer:
The defaultProps are defined as a property on the component class to set the default props for the class. This is used for undefined props, but not for null props.

For example, let us create color default prop for the button component,

```
class MyButton extends React.Component {
  // ...
}

MyButton.defaultProps = {
  color: "blue",
};
```

If props.color is not provided then it will set the default value to 'red'. i.e, Whenever you try to access the color prop it uses default value

```
render() {
  return <MyButton /> ; // props.color will be set to red
}
```

📝 Note: If you provide null value then it remains null value.

5. What is an arrow function and how is it used in React?

Answer:
An arrow function is a short way of writing a function to React.
It is unnecessary to bind 'this' inside the constructor when using an arrow function. This prevents bugs caused by the use of 'this' in React callbacks.

Coding Challenge   15m

- RC-CC-02 Interview Q-A App

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Coffee Break   10m

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Video of the Week   10m

- How to fetch data from API using axios in React useEffect hook?

- What NOT to do in an Interview

Case study/Project   15m

1. RP-05 Appointment App

- ○ The solution will be provided on Thursday. Until that day, try to solve it on your own.

Note: *Focus on the projects that have been solved this week, review them, and practice them again*.

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