TW-011 STUDENT VERSION (Sprint-7 Week-1)

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. The maximum number of global symbols a module can define is _____ .

A. 2
B. 3
C. 4
D. 1

2. Modules that have more than one item in their API can _____ .

A. Assign itself to a global variable
B. Invoke another module of the same kind
C. Return a namespace object
D. Invoke another module of the same kind

3. The properties() method is a _____ .

A. Enumerable method
B. Non-enumerable method
C. Operational method
D. Calling method

4. Which of the following languages support functional programming paradigm?

A. Javascript
B. R
C. Closure
D. All of them

5. One of the side effects of functional programming if not implemented can be _____ .

A. More memory utilization because it relies on immutable data
B. More CPU cycles may be needed to crunch and analyze data
C. None of these
D. Both A and B

6. What are the various programming paradigms?

A. Functional Programming
B. Object Oriented Programming
C. compImperative Programming
D. All of them

7. Functional Programming heavily relies on the use and re-use of _____ .

A. Objects
B. Functions
C. Variables
D. All of them

8. Consider the following code from React Router. What do you call :id in the path prop?

```
<Route path="/:id" />
```

A. This is a route modal
B. This is a route parameter
C. This is a route splitter
D. This is a route link

9. 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.

10. What can you use to handle code splitting?

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

11. When might you use `React.PureComponent`?

A. when you do not want your component to have props
B. when you have sibling components that need to be compared
C. when you want a default implementation of `shouldComponentUpdate()`
D. when you do not want your component to have state

12. You have written the following code but nothing is rendering. How do you fix this problem?

```
const Heading = () => {
  <h1>Hello!</h1>;
};
```

A. Add a render function.
B. Change the curly braces to parentheses or add a return statement before the `h1` tag.
C. Move the `h1` to another component.
D. Surround the `h1` in a `div`.

13. Which option is correct for State vs Props

A. Props is something that the parent doesn't need and decide to throw around among other parents; State is the parent's favorite child and something the component wants to nurture.
B. Props get passed to the component using naming conventions, like a function parameter; State is managed within the component and holds some information that may change over the lifetime of the component.
C. Props is a copy of real DOM; State is the definition of the real DOM.
D. Prop is managed within the component and holds some information that may change over the lifetime of the component; State gets passed to the component, like a function parameter

14. 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.

Interview Questions   15m

1. What is Functional Programming?

2. What makes JavaScript a Functional Language?

3. What are Higher Order Functions?

4. What is styled-component styling in React?

5. What is React Router?

Coding Challenge   20m

- Coding Challenge: JS-CC-008: Sliding Window Maximum

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Coffee Break   10m

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Video of the Week   5m

- What to do in an interview

- 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.

- RC-005 Clarusway Website Page with Router

Closing   5m

-Next week's plan

-QA Session