

TW-010 TEAM-LEAD VERSION (Sprint-6 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. You are rendering a list with React when this warning appears in the console: "Warning: Each child in a list should have a unique 'key' prop." How do you fix this issue?

- A.** Pass the name of each item as its key.
- B.** Add a key prop with the same value to each item the list.
- C.** Clear the console warnings.
- D.** When iterating over the list items, add a unique property to each list item.

Answer: D

2. What does `myApp` refer to in the following command?

```
npx create-react-app myApp
```

- A.** The type of app to create
- B.** The directory to create the new app in
- C.** The name you want to use for the new app.
- D.** A reference to an existing app.

Answer: C

3. Filter, Map and Reduce operation is way to _____ .

- A.** Un-compress and expand data.
- B.** Create new immutable dataset.
- C.** Crunch and analyze the data
- D.** All of them

Answer: C

4. What is the first file loaded by the browser in a basic React project?

- A.** src/App.js
- B.** src/index.js
- C.** public/manifest.json
- D.** public/index.html

Answer: D

5.What is the default local host port that a React development server uses?

- A.** 2000
- B.** 3000
- C.** 8080
- D.** 5000

Answer: B

6. A copy of the 'real' DOM that is kept in memory is called what?

- A.** Virtual DOM
- B.** React DOM
- C.** DOM
- D.** Shadow DOM

Answer: A

7. What is the correct syntax to import a Component from React?

- A.** import Component from 'react'
- B.** import { Component } from 'react'
- C.** import [Component] from 'react'
- D.** import React.Component from 'react'

Answer: B

8. Which props from the props object is available to the component with the following syntax?

```
<Message {...props}/>
```

- A. any that have not changed
- B. child props
- C. any that have changed
- D. all of them

Answer: D

9. What is wrong in this code?

```
function car({make, model}) {  
  return <h1>{make} {model}</h1>;  
};
```

- A. Add parenthesis around the return value.
- B. The first letter of the function must be capitalized
- C. Wrap the return in a fragment
- D. Remove the return statement

Answer: B

10. What is wrong with this code?

```
const MyComponent = ({ names }) => (  
  <h1>Hello</h1>  
  <p>Hello again</p>  
);
```

- A. React does not allow components to return more than one element.
- B. React components cannot be defined using functions.
- C. The component needs to use the return keyword.
- D. String literals must be surrounded by quotes.

Answer: A

Interview Questions

15m

1. What is JSX?

Answer :

JSX is a syntax extension of JavaScript. It is used with React to describe what the user interface should look like. By using JSX, we can write HTML structures in the same file that contains JavaScript code.

2. Can web browsers read JSX directly?

Answer :

- Web browsers cannot read JSX directly. This is because they are built to only read regular JS objects and JSX is not a regular JavaScript object.
- For a web browser to read a JSX file, the file needs to be transformed into a regular JavaScript object. For this, we use Babel.



3. What is the virtual DOM?

Answer :

- DOM stands for Document Object Model. The DOM represents an HTML document with a logical tree structure. Each branch of the tree ends in a node, and each node contains objects.
- React keeps a lightweight representation of the real DOM in the memory, and that is known as the virtual DOM. When the state of an object changes, the virtual DOM changes only that object in the real DOM, rather than updating all the objects. The following are some of the most frequently asked react interview questions.

4. Why is there a need for using keys in Lists?

Answer :

Keys are very important in lists for the following reasons:

- A key is a unique identifier and it is used to identify which items have changed, been updated or deleted from the lists.

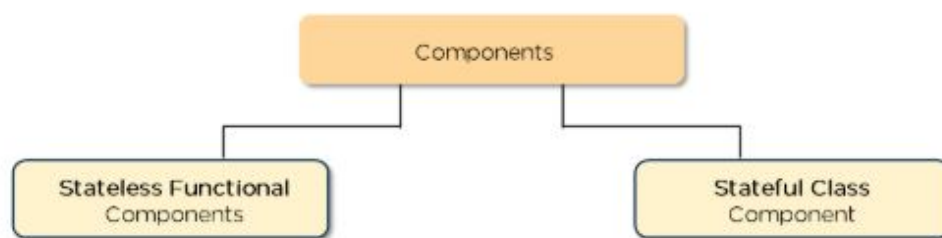
- It also helps to determine which components need to be re-rendered instead of re-rendering all the components every time. Therefore, it increases performance, as only the updated components are re-rendered

5. What are the components in React?

Answer :

Components are the building blocks of any React application, and a single app usually consists of multiple components. A component is essentially a piece of the user interface. It splits the user interface into independent, reusable parts that can be processed separately.

There are two types of components in React:



Functional Components : These types of components have no state of their own and only contain render methods, and therefore are also called stateless components. They may derive data from other components as props (properties).

```
function Greeting(props) {  
  
  return <h1>Welcome to {props.name}</h1>;  
  
}
```

Class Components : These types of components can hold and manage their own state and have a separate render method to return JSX on the screen. They are also called Stateful components as they can have a state.

```
class Greeting extends React.Component {  
  
  render() {  
  
    return <h1>Welcome to {this.props.name}</h1>;  
  
  }  
  
}
```

Coding Challenge

20m

- [Coding Challenge: JS-CC-09 : Palindromic and Perfect Numbers Lists](#)
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Coffee Break

10m



Video of the Week

5m

- [What NOT to do in an Interview](#)

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

- [Language Cards \(RP-02\)](#)
Solution : Saturday, 15 Oct 2022
- [Task Tracker \(RP-03\)](#)
Office Hours : Wednesday, 19 Oct 2022
Solution : Thursday, 20 Oct 2022

Closing

5m

-Next week's plan

-QA Session
