# TW-011 STUDENT VERSION (Sprint-8 Week-1)



# 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. 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.

**2. Which language can you not use with React?**

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

**3. 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.

**4. 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

**5. 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

**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

**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

**8 Why is it a good idea to pass a function to `setState` instead of an object?**

**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.

**9 What command is used to start the React local development server?**

**A.** npm build
**B.** npm serve
**C.** npm run dev
**D.** npm start

**10 To develop and run React code, Node.js is required.**

- ☐ True
- ☐ False

**11 How can you combine the following arrays using the spread operator?**

```
const array1 = [1, 2, 3];
const array2 = [4, 5, 6];
```

**A.** const combinedArray = [array1,array2];
**B.** const combinedArray = [...array1,...array2];
**c.** const combinedArray = array1 + array2;
**d.** const combinedArray = ...array1 + ...array2

**12 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

## 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

- Clarusway Web Page with Router (RP-09)

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## Coffee Break                                                                     10m

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## 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.**

- FireBlog-App-(Milestone Project)

## Closing                                                                                          5m

-Next week's plan

-QA Session                                                          6 / 6

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## Closing                                                                                          5m

-Next week's plan

-QA Session