

# TW-009 STUDENT VERSION (Sprint-6 Week-1)

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CLARUSWAY  
WAY TO REINVENT YOURSELF

## Meeting Agenda

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- ▶ Icebreaking
- ▶ Questions
- ▶ Interview Questions
- ▶ Coding Challenge
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

# Teamwork Schedule

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## 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. 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

**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

## 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. What is React Router?

## Coding Challenge

20m

- [Coding Challenge: JS-CC-016: Sliding Window Maximum](#)



## Coffee Break

10m



## Videos 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.**

- [RP-03 Language Cards](#)
- [RP-02 Task Tracker](#)

## Closing

5m

-Next week's plan

-QA Session

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