

# TW-013 TEAM-LEAD VERSION (Sprint-8 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. What is the correct way to set the default value for uncontrolled components ?

- A. Value property
- B. DefaultValue property
- C. Default property
- D. Assigns automatically

Answer: B

### 2. What happens when a property is assigned to a method ?

- A. get()
- B. destructor()
- C. constructor()
- D. init()

Answer: B

### 3. Which of the following react components act like function with respect to props ?

- A. Recursive functions
- B. Monads
- C. Pure functions
- D. Higher-order functions

Answer: B - Pure function in React act like function with respect to props. It is the foundation of functional programming.

**4. Which of the following is the correct use of useEffect ?**

- A.**Optimize for all devices
- B.**Complete all the update
- C.**Change the layout
- D.**Paint before the effects runs

*Answer: D* - The useEffect is used to fire the DOM manipulation in a synchronous way. So the correct answer is option is paint before the effect runs.

**5. What happens when we kept the object in a React ?**

- A.**component
- B.**super
- C.**state
- D.**props

*Answer: C* - The state is used when we kept the object in a React. The state is used to create the component in react.

**6. Which of the following testing library is used with React ?**

- A.** Chai
- B.** Mocha
- C.** Sinon
- D.** Jest

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*Answer: D*

**7. Which of the following is not components of Redux?**

- A.** Action
- B.** Reducer
- C.** State
- D.** View

*Answer: C*

**8 What is react.js in MVC?**

- A.** Model
- B.** View
- C.** Controller
- D.** Router

*Answer: B*

**9 What will happen if you render an input element with disabled = {false}?**

- A. It will be rendered as disabled
- B. It will not be rendered at all
- C. It will be rendered as enabled
- D. You cannot set it false.

Answer: C - If you render an input element with disabled = {false}, it will be rendered as enabled.

**10. Which of the following lifecycle events React components have at the highest level?**

- A. Destruction
- B. Initialization
- C. State/Property Updates
- D. All of the above.

Answer: D

**11. We can update the state in React.js by calling to setState() method. These calls are:**

- A. Synchronous in nature.
- B. Asynchronous in nature.
- C. Are asynchronous but can be made synchronous when required.
- D. None of the above.

Answer: B

**12. The ..... component allows navigating the different routes on the websites, whereas ..... component is used to add styles to the active routes.**

- A. NavLink - Link
- B. Link - Route
- C. Link - NavLink
- D. NavLink - Route

Answer: C

**13. Which is not one of React Redux's pros?**

- A. It is kept up-to-date any API changes to ensure that your React components behave as expected.
- B. It encourages good React architecture.
- C. It implements many performance optimizations internally, which allows to components re-render only when it actually needs.
- D. Redux has an additional complexity in layering when it comes to using manipulation logic actions or reducers.

Answer: D

## Interview Questions

15m

### 1. What is React Redux?

Redux is an open-source JavaScript library used to manage application state. React uses Redux for building the user interface. The Redux application is easy to test and can run in different environments showing consistent behavior. It was first introduced by Dan Abramov and Andrew Clark in 2015.

React Redux is the official React binding for Redux. It allows React components to read data from a Redux Store, and dispatch Actions to the Store to update data. Redux helps apps to scale by providing a sensible way to manage state through a unidirectional data flow model. React Redux is conceptually simple. It subscribes to the Redux store, checks to see if the data which your component wants have changed, and re-renders your component.

### 2. What are the components of Redux?



- Store: Holds the state of the application.
- Action: The source information for the store.
- Reducer: Specifies how the application's state changes in response to actions sent to the store.

### 3. What are Controlled components in React?

In React, Controlled Components are those in which form's data is handled by the component's state. It takes its current value through props and makes changes through callbacks like onClick, onChange, etc. A parent component manages its own state and passes the new values as props to the controlled component.

In the form elements are either the typed ones like textarea, input or the selected one like radio buttons or checkboxes, whenever there is any change, made it is updated accordingly through some functions that update the state as well.

**Uncontrolled components** are those for which the form data is handled by the DOM itself. "Uncontrolled" refers to the fact that these components are not controlled by React state.

The values of the form elements are traditionally controlled by and stored on the DOM. We will have to refer to the instance of the form elements to retrieve their values from the DOM.

### 4. What are the advantages of Redux?

The main advantages of React Redux are:

- React Redux is the official UI bindings for react Application. It is kept up-to-date with any API changes to ensure that your React components behave as expected.

- It encourages good 'React' architecture.
- It implements many performance optimizations internally, which allows components to re-render only when it actually needs.
- It makes the code maintenance easy.
- Redux's code is written as functions which are small, pure, and isolated, which makes the code testable and independent.

## Coding Challenge

20m

- [Simple Counter](#)



## Coffee Break

10m



## Video of the Week

5m

- [React Redux](#)

## Retro Meeting on a personal and team level

5m

Ask the questions below:

- What went well?
- What went wrong?
- What are the improvement areas?

## Case study/Project

15m

- [FireContact App \(RP-07\)](#)

## Closing

5m

-Next week's plan

-QA Session

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