

MODULE-2 TW-06 TEAM LEAD VERSION



CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

- ▶ Icebreaking
- ▶ Workshop Activities - Tuesday
- ▶ Teamwork Activities - Friday
 - ▶ Questions
 - ▶ Interview Questions
- ▶ Video of the week
- ▶ Retro meeting
- ▶ Case study / project

Teamwork Schedule

Ice-breaking

10m

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Workshop Activities (Tuesday)

90m

There will be no workshop on Tuesday. RC20 - REDUX Intro class will be held.

Team Work Activities (Friday)

90m

Ask Questions

20m

1. What is true about redux?

- A. Redux is a predictable state container for JavaScript apps.
- B. Redux fundamental principles help in maintaining consistency throughout your application
- C. Redux makes debugging and testing easier
- D. All of the above

Answer: D

2. Actions and states are held together by a function called?

- A. Reducer
- B. Redux
- C. suscribe
- D. view

Answer: A

Explanation: Actions and states are held together by a function called Reducer. An action is dispatched with an intention to cause change. This change is performed by the reducer.

3. Redux follows the _____ data flow.

- A.** bidirectional
- B.** unidirectional
- C.** Both A and B
- D.** It depends on data.

Answer: B

4. Which method helps you retrieve the current state of your Redux store?

- A.** dispatch
- B.** subscribe
- C.** action
- D.** useSelector

Answer: D

Explanation: The method that helps you retrieve the current state of your Redux store is useSelector. useSelector is part of the react-redux library, and it allows you to extract data from the Redux store state in a React component. By providing a callback function to useSelector, you can select specific data from the state and automatically update the component when the relevant part of the state changes.

5. Which of them provide us debugging platform for Redux apps?

- A.** Redux-Testing
- B.** Redux-Middleware
- C.** Redux-Devtools
- D.** Redux-suscriber

Answer: C

Explanation: Redux-Devtools provide us debugging platform for Redux apps. It allows us to perform time-travel debugging and live editing.

6. What is an action in Redux?

- A.** An event listener that is subscribed to the store
- B.** A function that returns in a new state based on the type of change
- C.** An object that describes the type of change to happen
- D.** A piece of code or function that modifies the state

Answer: C

7. What are the core principles of Redux?

- A. The store is global and centralized
- B. Changes can only be made by reducers
- C. State is immutable and read-only
- D. All of the above

Answer: D

8. The in Redux is the main central bucket that stores all the states of an application. It works as a single source of truth for all the states of the application. It refers to an object tree that contains all the states of the application.

- A. store - mutable
- B. action - store
- C. store - immutable
- D. action - immutable

Answer: C

9. In which version of React did Hooks add?

- A. 15.6
- B. 16.8
- C. 16
- D. 18.1

Answer: B

10. Which is not an in-build hook?

- A. useEffect
- B. useState
- C. useRef
- D. useFetch

Answer: D

11. What is Material UI?

- A. A CSS framework
- B. A React component library based on Google's Material Design
- C. A JavaScript library for animations
- D. A server-side rendering tool

Answer: B

12. Which of the following is NOT a core component of Material UI?

- A.** AppBar
- B.** Button
- C.** Chart
- D.** Card

Answer: C

13. What's the primary color theme of Material UI?

- A.** Blue
- B.** Red
- C.** Green
- D.** Yellow

Answer: A

14. How can you integrate Material UI into a React project?

- A.** Import components directly from Google's CDN
- B.** Include a CDN link in the HTML file
- C.** Use npm or yarn to install the package
- D.** Both B and C

Answer: D

15. How can you customize the theme in Material UI?

- A.** By modifying the default theme directly
- B.** By providing a custom theme object to the ThemeProvider
- C.** Both a and b
- D.** By importing a theme from a third-party source

Answer: C

Interview Questions**15m****1. What is Material-UI?**

Material-UI is a React component library that follows Google's Material Design guidelines. It provides a wide variety of pre-built React components that can be used to create websites and user interfaces that look and feel like they were designed using Material Design principles.

2. What is Redux?

Redux is an open-source library made using the scripting language JavaScript. Redux's primary use lies in managing and centralizing application state and it is usually used along with JavaScript libraries, for instance, React or Angular in order to build UIs (User Interfaces). It is a predictable state container for applications built using JavaScript. It is based on the Flux design pattern. Redux is very small in size (around 2 kilobytes) and has no dependencies

3. What are the advantages of using Redux?

Some of the advantages of using Redux are as follows:

- Redux provides extremely easy state transfer between the components.
- The states are always predictable in Redux and its maintenance is relatively easy.
- Debugging and testing code in Redux is simple through logging behaviour and status.
- Redux provides great performance. It might occur to us that keeping the application's state global would result in bad performance. However, usually, that is not the case as React Redux implements a lot of performance optimizations internally so that our own connected component only re-renders when it actually needs to.
- Redux also offers state persistence by storing the application's state to local storage and restoring it after a refresh.

4. What do you understand about Redux Toolkit?

Redux Toolkit is Redux's official, opinionated, batteries included toolset for efficient Redux development. It also consists of the most widely used Redux add-ons, for instance, Redux Thunk for asynchronous logic, Reselect for writing selector functions and many more for making development easy for developers and saving them time.

5. What are some of the major features of Redux DevTools?

- Redux DevTools is nothing but a time travel environment that makes it possible for us to live edit in Redux with a variety of functionalities like action replay, hot reloading, and customizable UI.
- Redux DevTools makes it possible for us to inspect all the states and action payload. We can go back into the time simply by cancelling the actions. Each stage action is re-evaluated in case we change the code of the reducer.
- We can also continue our debug sessions across page reloads with the help of `persistState()` store enhancer.



Coffee Break

10m



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

Project will be announced during the week.

Closing

5m

- Next week's plan
 - QA Session
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