React JS QUESTIONS 2

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1.How will you send data from a Child Component to the parent component?

Ans:

To send data from child component to the parent component with have to go through this step:

1. We need to create a callback function in the parent component. This callback function will get the data from the child component.
2. Then we need to Pass the callback function to the child as a prop from the parent component.
3. The child component will call the parent callback function using props and passes the data to the parent component by callback function.

There is another easy way of doing this. we can use ContextAPi to manage our data/props drilling works smoothly.

2.What is the best way to send 4 or more props to a child component?

Ans: To send 4 or more props to child component we can use and object. We can keep all the state data into an object and pass the object as props into child component. And from this object we can desctructuring the data. This can be the best way to pass more props to a child component.

==========End ==========

3.What is Redux and and what is the purpose of Redux?

Ans: Redux is tools to store the state of the variables in your app. Redux creates a process and procedures to interact with the store so that we can use these state data as per our need easily. By using redux we can manage state easily without any complex props drilling like doing nested passing states. It make the state management process so easy.

========End =========

4.What is React native? What do you know about React Native?

Ans:

React Native is a mobile framework of react whick helps to build mobile application with react.

At present I don’t have any knowledge about react native. But as I knew React then I think I will be easy to learn for me.

========End ========

5.What are Higher order components? Give us an example.

Ans: A function which takes one or more functions as arguments or returns a function as result is called a higher order function. This function contains the other function as parameter and can returns it as an output.

For example :

```
function add(param1,param1){
        return param1+param2;

}

function highOrder(value1,value2,addFunc){
        retuen addFunc(value1,value2)

}

highOrder(10,20,add);
```

Here highOrder function is a higher order function. It has taken a function as param and return also a function.

========End ========

6.Is there any reason to return something from a UseEffect hook?

Ans: Sometimes we need to return a clean up function from useEffect Hook. This clean up function helps to prevent unnecessary memory leaks and remove unnecessary behaviour.This function also help to optimize the application.

Example of Writing pattern of useEffect with clean Up:

```
useEffect(() => { effect return () => { cleanup } }, [input])
```

========End========

7.How will you optimize a react application?

Ans: React Js Always re-render the comonent code while chaning a state. When we change something on react in re-render the whole code of our app which is unnecessary sometime for our application. For stop these unnecessary re-renders we can use useMemo. This function will help to not re-render the code always. It will take some dependency for re-render those code. And it will improve out application speed also.besides we can use useCallback hook also.

========End ========

8.What are the different ways to manage state in a React Application

Ans:

There are many ways in react to manage state. Some of are givem below:

1. passing stats as a prop from one component to others. sometimes It can be messy if we need to pass state by doing nested them to various component. It is not recommended way for big react application.
2. Context API is the build in react hook which help to manage react application state easy for doing props drilling. Here we can easily pass chile components state to parent component without any hard work.
3. Redux is a great tool to proficiently manage the state of react application. It has so much popularity for managing state efficiently.

=========End =========

9.Why do we inject dependency inside a UseEfect hook?

Ans:

useEffect is a react hook that works for managing the side effect part of a function component in react application.we need to put a callback function in useEffect to write our side effect logic.normally without any dependency or empty array useEffect code will run on evey re-render that can be slow down our app.if we pass an empty array then it will run only one time when window load.It will not work for the re-render.but If we pass a dependency state value in useEffect it will works depending on the value change of the state value.It will re-render only when the dependent state value change.

So If we need to run any code based on a state value change then with need to injected dependency.

=========End =========

10.How will you prevent re-render in react applications?

Ans:

In React Application all time re-render the full code can be slow down our App. To prevent this issue we can use useMemo or useCallback react hook.

With the helps of useMemo hook, it will reduce re-renderings by caching/memorizing same code and returning the same result if the inputs are the same without any computations/re-re-render. When the inputs change, the cache gets invalidated and the new component state gets rendered.

=========End =======

11.Tell me some disadvantages of Reactjs

Ans:

Some Disadvantages of React:

- React is just a library, not a full-blown framework
- It can be little difficult for the new learner programmers to understand
- It is not good for SEO.
- ReactJs documentation is not so good to understand.

=========End ======

12.Does React perform one-way data binding or two way data binding?

Ans:

ReactJS perform only one-way data binding.

========End ========