React JS Interview Questions - Part: 01

1

How is Stateless component different from a Stateful component?

The stateless component calculates the internal state of the componentbut does not have the authority to change state. There is no knowledgeabout the past, current, or future but receives props from the Statefulcomponent, which are treated as a callback function.

What is the difference between state and props?

Both props and state are plain JavaScript objects. While both of them holdinformation that influences the output of render, they are different in theirfunctionality with respect to component. ie:

- Props get passed to the component similar to function parameters.

- State is managed within the component similar to variables declaredwithin a function.

2

What can you do if the expression contains more than one line?

In such a situation, enclosing the multi-line JSX expression is an option. Ifyou are a first time user, it may seem awkward but later you canunderstand everything very easily. Many times it becomes necessary toavoid multi-lines to perform the task reliably and for getting the results asexpected.

What kind of information controls a segment in React?

There are mainly two sorts of information that control a segment: State and Props.

- State: State information that will change, we need to utilize State.

- Props: Props are set by the parent and which are settled all throughthe lifetime of a part.

3

Explain DOM Diffing in React.

The process of checking the difference between the new VDOM tree andthe old VDOM tree is called "diffing". Diffing is accomplished by aheuristic O(n) algorithm. During this process, React will deduce the minimum number of steps needed to update the real DOM, eliminating unnecessary costly changes. This process is also referred to as reconciliation.

What do you understand by the term polling?

The server needs to be monitored to for updates with respect to time. Theprimary aim in most of the cases is to check whether novel comments arethere or not. This process is basically considered as pooling.It checks forupdates approximately every 5 seconds. It is possible to change this timeperiod easily. Pooling help keeping an eye on the users and always makesure thatno negative information is present on the servers. Actually, it cancreate issues related to several things and thus pooling is considered.

4

What's the difference between an Element and a Component in React?

Simply put, a React element describes what you want to see on the screen. Not so simply put, a React element is an object representation of some UI.A React component is a function or a class which optionally accepts inputand returns a React element (typically via JSX which gets compiled to a createElement invocation)

Why should we not call setState in componentWillUnmount?

You should not call setState() in componentWillUnmount() because thecomponent will never be re-rendered.

What is the difference between React Native and React?

React is a JavaScript library, supporting both front end web and being runon the server, for building user interfaces and web applications.React Native is a mobile framework that compiles to native appcomponents, allowing you to build native mobile applications (iOS,Android, and Windows) in JavaScript that allows you to use React to buildyour components, and implements React under the hood.