**1) What is React js?**

React is a JavaScript library that makes building user interfaces easy. It was developed by Facebook.

**2) Does React use**[**HTML**](https://career.guru99.com/top-50-html-interview-questions/)**?**

No, It uses JSX, which is similar to HTML.

**3) When was React first released?**

React was first released on March 2013.

**4) Give me two most significant drawbacks of React**

* Integrating React with the MVC framework like Rails requires complex configuration.
* React require the users to have knowledge about the integration of user interface into MVC framework.

**5) State the difference between Real DOM and Virtual DOM**

|  |  |
| --- | --- |
| Real DOM | Virtual DOM |
| It is updated slowly. | It updates faster. |
| It allows a direct update from HTML. | It cannot be used to update  HTML directly. |
| It wastes too much memory. | Memory consumption is less |

**6) Name the important features of React**

Here, are important features of React.

* Allows you to use 3rd party libraries
* Time-Saving
* Faster Development
* Simplicity and Composable
* Fully supported by Facebook.
* Code Stability with One-directional data binding
* React Components

**7) Explain React Router**

* React Router is a routing library which allows you to add new screen flows to your application, and it also keeps URL in sync with what’s being shown on the page.

**8) What are the popular animation package in React ecosystem?**

Popular animation package in React ecosystem are

* React Motion
* React Transition Group

**9) What are Props in react js?**

* Props mean properties, which is a way of passing data from parent to child. We can say that props are just a  communication channel between components. It is always moving from parent to child component.

**10) What is the use of a super keyword in React?**

* The super keyword helps you to access and call functions on an object’s parent.

**11) Name two types of React component**

Two types of react Components are:

* Function component
* Class component

**12) What is React State?**

* It is an object which decides how a specific component renders and how it behaves. The state stores the information which can be changed over the lifetime of a React component.

**13) How can you update state in react js?**

A state can be updated on the component directly or indirectly.

**14) Explain the use of the arrow function in React**

The arrow function helps you to predict the behavior of bugs when passed as a callback. Therefore, it prevents bug caused by this all together.

**15) What are the lifecycle steps of React?**

Important lifecycle steps of React js are:

* Initialization
* State/Property updates
* Destruction are the lifecycle of React

**16) State the main difference between Pros and State**

The main difference the two is that the State is mutable and Pros are immutable.

**17) What is ‘create-react-app’?**

‘create-react-app’ is a command-line tool which allows you to create one basic react application.

**18) Explain the use of ‘key’ in react list**

Keys allow you to provide each list element with a stable identity. The keys should be unique.

**19) What is the use of empty tags <> </>?**

Empty tags are used in React for declaring fragments.

**20) 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 through the lifetime of a part.

**21) What are children prop?**

* Children props are used to pass component to other components as properties. You can access it by using

{props.children}

**22) Explain error boundaries?**

Error boundaries help you to catch Javascript error anywhere in the child components. They are most used to log the error and show a fallback UI.

**23) Explain strict mode**

StrictMode allows you to run checks and warnings for react components. It runs only on development build. It helps you to highlight the issues without rendering any visible UI.

**24) What are reacted portals?**

Portal allows you to render children into a DOM node.  **CreatePortalmethod** is used for it.

**25) What is Context?**

React context helps you to pass data using the tree of react components. It helps you to share data globally between various react components.

**26) What is the use of Webpack?**

Webpack in basically is a module builder. It is mainly runs during the development process.

**27) What is Babel in React js?**

Babel, is a JavaScript compiler that converts latest JavaScript like ES6, ES7 into plain old ES5 JavaScript that most browsers understand.

**28) How can a browser read JSX file?**

If you want the browser to read JSX, then that JSX file should be replaced using a JSX transformer like Babel and then send back to the browser.

**29) What are the major issues of using MVC architecture in React?**

Here are the major challenges you will face while handling MVC architecture:

* DOM handling is quite expensive
* Most of the time applications were slow and inefficient
* Because of circular functions, a complex model has been created around models and ideas

**30) What can be done when there is more than one line of expression?**

* At that time a multi-line JSX expression is the only option left for you.

**31) What is the reduction?**

* The reduction is an application method of handling State.

**32) When should you use the top-class elements for the function element?**

* If your element does a stage or lifetime cycle, we should use top-class elements.

**33) How can you share an element in the parsing?**

* Using the State, we can share the data.

**34) Explain the term reconciliation**

* When a component’s state or props change then rest will compare the rendered element with previously rendered DOM and will update the actual DOM if it is needed. This process is known as reconciliation.

**35) Ho can you re-render a component without using setState() function?**

* You can use forceUpdate() function for re-rending any component.

**36) Can you update props in react?**

* You can’t update props in react js because props are read-only. Moreover, you can not modify props received from parent to child.

**37) Explain the term ‘Restructuring.’**

Restructuring is extraction process of [array](https://career.guru99.com/top-50-array-interview-questions-answers/) objects. Once the process is completed, you can separate each object in a separate variable.

**38) Can you update the values of props?**

It is not possible to update the value of props as it is immutable.

**39) Explain the meaning of Mounting and Demounting**

* The process of attaching the element to the DCOM is called mounting.
* The process of detaching the element from the DCOM is called the demounting process.

**40) What is the use of ‘prop-types’ library?**

‘Prop-types’ library allows you to perform runtime type checking for props and similar object in a recent application.

**41) Explain react hooks**

React hooks allows you to use State, and other React features without writing a class.

**42) What are Fragments?**

You can use fragment keyword to group a list of children components without using any extra nodes to the DOM.

Ex;

render()

{

return(

);

}

**43) What is the main difference between createElement and cloneElment?**

* createElement is used by react to create react elements.
* cloneElement is used to clone an element and pass it new props.

**44) What are Controlled Components?**

Controlled components are component which controls the input elements.

**45) Why do you need to use props.children?**

This props.children allow you to pass a component as data to other components.

**46) List down some of the methods in a react-dom package**

Important methods for react-dom packages are:

* render()
* hydrate()
* createPortal()
* unmountComponentAtNode()
* findDOMNode()

**47) How can we do server-side rendering in React?**

We can use reaction serve to do the server-side rendering.

**48) State the difference between getIntialState() and constructor()?**

If you want to create one component by extending ‘React. Component’, the constructor helps you to initialize the State. But, if you want to create by using ‘Reat.createClass.’ then you should use ‘genInitiaState.’

**49) What is refs?**

Ref are an attribute of the DOM elements. The primary purpose of the refs is to find the DOM elements easily.

**50) What is ComponentWillMount()**

componentWillMount() is to make API calls once the component is initiated and configure the values into the state. To make an API call, use an HttpClient such as Axios, or we can use fetch() to trigger the AJAX call.

**51) How to dispatch the data in-store?**

We can dispatch the data to another component which should be based on the action which stores the parent component.

**52) Name any five predefined prototypes used in React**

Most important protoype used in React js are:

* number
* string
* array
* object
* element

**53) What is the purpose of using bindActionsCreators?**

BindActionCreator helps you to bind the event based on the action dispatcher to the HTML element.

**54) Can JSX element be attached to other JSX components?**

Yes, you can use attach JSX element with other JSX components which is very much similar to nesting HTML elements.

**55) What is the Current Stable Version of React?**

The current stable version of React is version 18.2.0

**56) Name out an important feature of Redux workflow features**

Important features of Redux workflow are:

* Reset: Helps you to reset the State of the Store
* Revert: Allows you to roll back to the last committed State
* Sweep: All disable action that you might fire by mistake will be removed
* Commit: Helps you to make the current State the initial State.

**57) State the difference between React JS and React Native**

React JS is a front end open-source JavaScript library used for building UIs.

React Native, is an open-source, mobile framework which allows developers to user React on platforms like Android and [iOS](https://career.guru99.com/top-18-x-code-interview-questions/" \o "iOS).