

# React Interview Questions

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## 1. What is the difference between Virtual DOM and Real DOM?

Virtual DOM	Real DOM
Changes can be made easily	Changes can be expensive
Minimal memory wastage	High demand for memory and more wastage
JSX element is updated if the element exists	Creates a new DOM every time an element gets updated
Cannot update HTML directly	Able to directly manipulate HTML
Faster updates	Slow updates

## 2. What is React?

**React** is a widely used JavaScript library that was launched in 2011. It was created by developers at Facebook, and it is primarily used for frontend development. React uses the component-based approach, which ensures to help you build components that possess high reusability.

React is well known for developing and designing complex mobile user interfaces and web applications.

## 3. What is the meaning of Virtual DOM?

A virtual DOM is a simple JavaScript object that is the exact copy of the corresponding real DOM. It can be considered as a node tree that consists of elements, their attributes, and other properties. Using the render function in React, it creates a node tree and updates it based on the changes that occur in the data model. These changes are usually triggered by users or the actions caused by the system.

Next up among these React interview questions, you need to take a look at some of the important features that React offers.

## 4. What are some of the important features of React?

React has multiple features that are used for unique purposes. The important ones are as mentioned below:

- React makes use of a single-direction data flow model.
- It deals with complete server-side data processing and handling.
- React uses Virtual DOM that has many advantages of its own.

## 5. What is the meaning of JSX?

JSX is the abbreviation of JavaScript XML. It is a file that is used in React to bring out the essence of JavaScript to React and use it for its advantages.

It even includes bringing out HTML and the easy syntax of JavaScript. This ensures that the resulting HTML file will have high readability, thereby relatively increasing the performance of the application.

Consider the following example of a JSX:

```
render(){
```

```
return(  
  
<div>  
  
<h1> Hello Intellipaat learners!</h1>  
  
</div>  
  
);  
  
}
```

## 6. Can browsers read a JSX file?

No, browsers cannot read JSX files directly. It can only read the objects provided by JavaScript. Now, to make a browser read a JSX file, it has to be transformed to a JavaScript object using JSX transformers, and only then it can be fed into the browser for further use in the pipeline.

## 7. Why is React widely used today?

**React** provides users with an ample number of advantages when building an application. Some of them are as follows:

- With React, UI testing becomes very easy.
- React can integrate with [Angular](#) and other frameworks easily.
- The high readability index ensures easy understanding.
- React can be used for both client-side and server-side requirements.
- It boosts application performance and overall efficiency.

## 8. Are there any disadvantages to using React?

There are some limitations when using React as mentioned below:

- Writing code is complicated as it uses JSX and inline template formatting.
- Beginners might find it tough to cope with its syntaxes and methods.
- The library contains a huge repository of information, which might be overwhelming.
- React is a simple library and not a complete framework hence calls for dependencies.

## 9. Differentiate between Angular and React.

Comparison Factor	Angular	React
Created by	Google	Facebook
DOM	Real DOM	Virtual DOM
Render Support	Client-side	Server-side

Architecture	Full MVC support	Only the view aspect of MVC
Data Binding	Unidirectional binding	Two-way binding

## 10. What is the meaning of the component-based architecture of React?

In **React**, components are foundations used to build user interfaces for applications. With the component-based system in place, all of the individual entities become completely reusable and independent of each other. This means that rendering the application is easy and not dependent on the other components of the UI.

## 11. How does rendering work in React?

Rendering is an important aspect of React as every single component must be rendered. This is done using the `render()` function. Once the function is called, it returns an element that represents a DOM component.

It is also possible to render more than one HTML element at a time by enclosing the HTML tags and passing them through the render function.

## 12. What are states in React?

States form to be one of the vital aspects of React. It is considered as a source of data or objects that control aspects such as component behavior and rendering. In React, states are used to easily create dynamic and interactive components.

## 13. What are props in React?

Props are the shorthand name given to properties in React. Props are read-only components that are immutable in nature. In an application, props follow a hierarchy that is passed down from parents to child components. However, the reverse is not supported. This is done to ensure that there is only a single directional flow in data at all times.

## 14. What is the use of an arrow function in React?

An arrow function is used to write an expression in React. It allows users to manually bind components easily. The functionality of arrow functions can be very useful when you are working with higher-order functions particularly.

Consider the following example:

```
//The usual way
render() {
  return(
    <MyInput onChange={this.handleChange.bind(this)} />
  );
}
//Making use of the arrow function
```

```
render() {  
  return(  
    <MyInput onChange={ (e) => this.handleChange(e) } />  
  );  
}
```

### 15. What is a higher-order component in React?

Higher-order components (HOCs) are a widely used technique in React for applying concepts that involve the component reusability logic. They are not a [React Native Firebase](#) part of the React API and allow users to easily reuse the code and bootstrap abstraction.

HOCs are also used to allow simple sharing of behaviors across all of the components in React, adding more advances to the efficiency and functioning of the application.

### 16. What is the meaning of create-react-app in React?

The create-react app in **React** is a simple command-line interface (CLI) that is used in the creation of React applications, which have no build configuration.

All tools are pre-configured when using the CLI, and this allows users to focus on the code more than on dependencies to develop the application.

The following syntax is used to start a simple project in React:

```
Create-react-app my-app
```

### 17. What are some of the advantages of using create-react-app in React?

Making use of create-react-app is advantageous in the following way:

- Support for JSX, ES6, and flow statements
- Already built and ready auto-prefixed CSS
- Fast interactive testing components
- Live development servers that help in debugging
- Scripts to handle JSS, CSS, and other files

### 18. What is the meaning of Redux?

- Redux is used to store the state of the application in a single entity. This simple entity is usually a JavaScript object. Changing states can be done by pushing out actions from the application and writing corresponding objects for them that are used to modify the states.
- For example:
  - {
  - 
  - first\_name: 'John',
  - 
  - last\_name : 'Kelly',

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