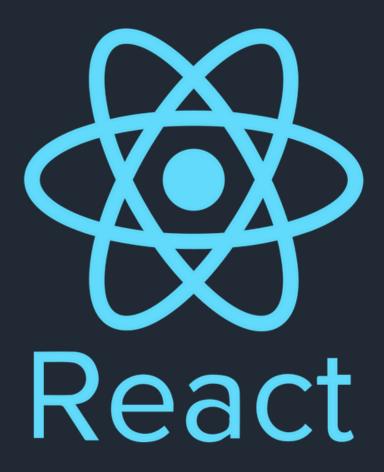
React Interview Questions?





1. What is React?

React is a declarative, efficient, flexible open source frontend JavaScript library for building user interfaces.

It follows the component-based approach for building reusable UI components, especially for single page application. It is used for developing interactive view layer of web and mobile apps.

2. What is jsx?

JSX is a **syntax extension** of JavaScript. It is used with React to **describe** what the user interface should look like. By using JSX, we can write **HTML structures** in the same file that contains JavaScript code.

3. Can web browsers read JSX directly?

Web browsers **cannot** read JSX directly. This is because they are built to only read regular JS objects and JSX is not a regular JavaScript object

For a web browser to read a JSX file, the file needs to be **transformed** into a regular JavaScript object. For this, we use **Babel**



4. What is the virtual DOM?

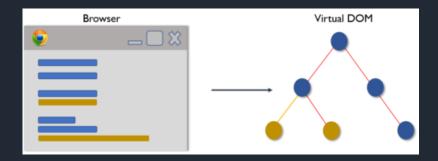
DOM stands for **Document Object Model**. The DOM represents an HTML document with a logical tree structure. Each branch of the tree ends in a node, and each node contains objects.

React keeps a **lightweight** representation of the real DOM in the memory, and that is known as the virtual DOM.

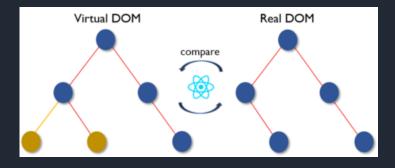
When the state of an object changes, the virtual DOM changes **only** that object in the real DOM, rather than updating all the objects.

This Virtual DOM works in three simple steps:

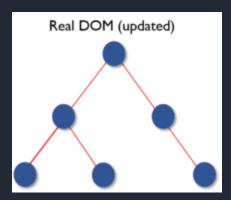
 Whenever any underlying data changes, the entire UI is re-rendered in Virtual DOM representation.



 Then the difference between the previous DOM representation and the new one is calculated.



 Once the calculations are done, the real DOM will be updated with only the things that have actually changed.



5. What is an event in React?

An event is an action that a user or system may **trigger**, such as pressing a key, a mouse click, etc.

 React events are named using camelCase, rather than lowercase in HTML. With JSX, you pass a function as the event handler,
 rather than a string in HTML.

<Button onClick={submitHandler } />

6. What are synthetic events in React?

- Synthetic events combine the response of different browser's native events into one API, ensuring that the events are consistent across different browsers.
- The application is consistent regardless of the browser it is running in. Here, preventDefault is a synthetic event.

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React Components – React Interview Questions

7. "In React, everything is a component." Explain.

Components are **the building blocks** of a React application's UI. These components **split up** the entire UI into small **independent and reusable pieces**. Then it renders each of these components independent of each other **without affecting the rest of the UI**.

8. What is Props?

Props is the shorthand for Properties in React. They are read-only components which must be kept pure i.e. immutable. They are always passed down from the

parent to the child components throughout the application.

A child component can never send a prop back to the parent component.

This help in **maintaining the unidirectional data flow** and are generally used to render the dynamically generated data.

working on part three

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