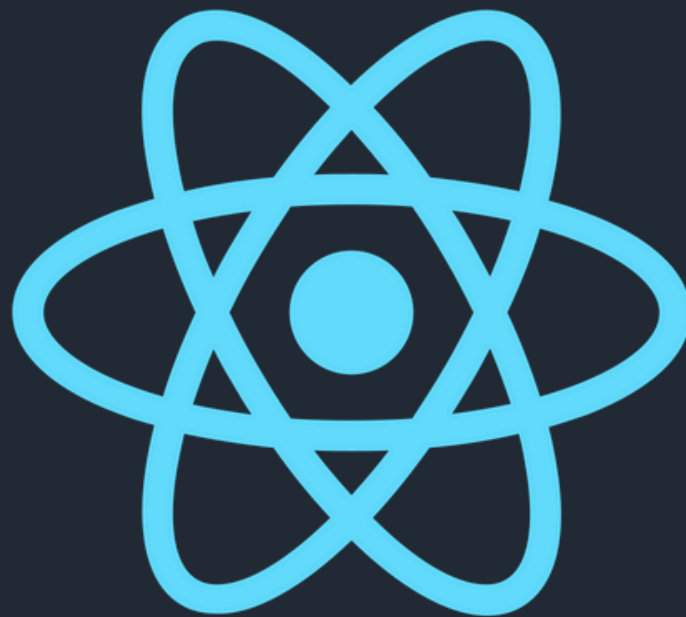


React Interview Questions?



React



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1. What is React?

React is a declarative, efficient, flexible open source front-end **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.

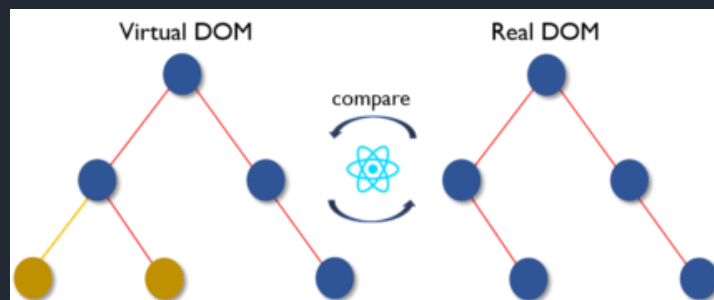
When the state of an object changes, the virtual DOM changes **only** that object in the real DOM, rather than updating all the objects.

This Virtual DOM works in three simple steps:

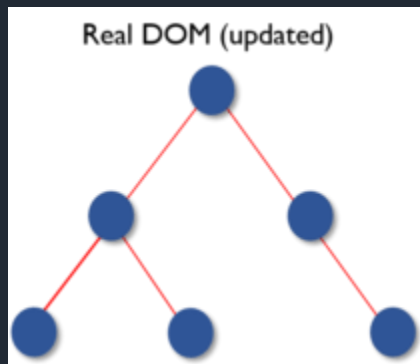
- Whenever any underlying data changes, the entire UI is **re-rendered** in Virtual DOM representation.



- 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.
-

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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