

### 1.Differences between uncontrolled and controlled components

Uncontrolled components in React are those where the form data is handled by the DOM, and React does not. In controlled components, the form data is handled by React itself. Controlled components provide more control over the form data and its state.

### 2.How to validate React props using PropTypes

PropTypes is a package that allows you to specify the type of each prop that a component should receive. This helps ensure that they are of the expected type. To use PropTypes, you need to import it and then define the propTypes for each prop that specifies the expected type of the prop.

### 3.Difference between Node.js and Express.js:

Node.js is a runtime environment for JavaScript that allows you to run JavaScript code outside of a web browser. Express.js provides a set of features that makes it easier to create web applications using Node.js. Some of the features include routing, middleware, and integration with databases.

### 4.What is a custom hook, and why will you create a custom hook?

A custom hook is a function in React that allows you to reuse logic across multiple components. Custom hooks are used when you have a common logic that you want to reuse across multiple components and you want to avoid duplicating the code. Custom hooks are defined using the use prefix and they help to organize the code, making it more modular and easier to test, as you can isolate the logic into a separate hook and test it independently.

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