

## Tell us the differences between uncontrolled and controlled components

Uncontrolled components are form inputs whose state is managed by the DOM, whereas controlled components have their state managed by React. Controlled components are typically preferred because they provide a more predictable user experience and support form input validation and submission.

## How to validate React props using PropTypes

PropTypes is a library for validating the type and shape of props passed to a React component. It allows you to catch errors early and prevent bugs caused by incorrect prop types. To use PropTypes, you import the library and define prop types for your components.

## Tell us the difference between Node.js and Express.js

Node.js is a runtime environment that allows you to run JavaScript code outside of a web browser. It uses the V8 JavaScript engine and provides access to the operating system's processes. Express.js is a web framework for Node.js that provides an abstraction layer on top of Node.js's core modules, making it easier to build applications and APIs.

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

A custom hook is a reusable function that encapsulates some behavior or state management logic that you can use across multiple components. Custom hooks allow you to abstract away common functionality and make your code more modular and reusable.