

REACT Interview Questions

Diff between React & angular

react is library it uses Java Script lang || Angular is framework use a typescript lang

react used on server side || angular uses on client side

develop single page and multipage API in React || only develop Single page API

React is Faster than Angular bcz of Its virtual DOM

DOM(Document object model) :

it is tree like structure

After calling set State it will compare

Virtual DOM with Physical DOM and modifies that states only instead of reloading entire DOM

What is a Component why it is Uses ?

it is reusable entity used for creating a element ,

Components is a part of user interface ,

components are reusable ,

it can be nested inside another components,

Two types :

1. Stateless Functional component :

- * Presentational Component

- * Does not handle any state

- * nothing but JS functions

Recives Object properties referred as props and return HTML which refers to UI

2. Statefull Class components :

- * handle state

- * it extends component class from react lib

- * its render method returns the HTML which describes the UI

How React knows JSX ?

because of a transpiler like babble

babble is a translator + compiler

babble converts JSX into older version of javascript

- What is React?

A JavaScript library for building user interfaces

- What are the major features of React?

- What are the advantages and limitations of React?

limitations :

A. React is only for view layer of the app so we still need the help of other technologies to get a complete tooling set for development

B. React is using inline templating and JSX. This can seem awkward to some developers

- What is JSX?

Instead of creating a new HTML page we can write our HTML code inside javascript

JSX allows us to do this process in react.

- How to create components in React?

- When to use a Class Component over a Function Component?

If you are writing a presentational component which doesn't have its own state or needs to access a lifecycle hook, use functional component as much as possible. For state management you can use class component. To manage State in Components

Class = setState

function = reactHooks

- What is state in React?

Object of component class holds some information that may change & it is also behaviour of the Component. it is immutable

Used in Header & footer in our project

- What are props in React?

For communicating between two components we use props, value can be set unidirectionally (parent to child)

It is a special keyword in react which stands for Properties.

- What is the difference between state and props?

States are mutable and props are immutable

- What is the difference between HTML and React event handling?

HTML =

```
<a href="#" onclick="console.log('The link was clicked.');" return false" />
```

REACT =

```
function handleClick(e) {  
  e.preventDefault()  
  console.log("The link was clicked.")  
}
```

- What is Virtual DOM? How it works?

- What are the lifecycle methods of React?

Constructor, render, return

- What are Higher-Order components?

- How to loop inside JSX?

- Why you can't update props in React?

- What are render props?

- What is React Router?

It is an external library, used for navigating, if we want to go from one page to other

it is a react's library,

there is a browser router used for navigating pages (uses path for navigation)

- How to perform automatic redirect after login?

- What is Redux?

Global state Management to store data with object and all components can access it with the help of redux

If we want to maintain state throughout application we use Redux , it is a Global state Container

if you update something in redux it will be updated globally

It uses a dispatcher

- What are the core principles of Redux?

- What is an action in Redux? Can I dispatch an action in reducer?