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React Topics

① What is React?

Ans: React is a front-end and open-source javascript library which is useful in developing user interfaces specifically for applications with a single page. It is helpful in building complex and reusable user interfaces components of mobile and web applications.

② What are the advantages of React?

Ans: Gentle Learning Curve:

React has a gentle learning curve when compared to frameworks like Angular. Anyone with little knowledge of javascript can start building web applications using React.

SEO friendly:

③ React allows developers to develop engaging user interfaces that can be easily navigated in various search engines.

Huge ecosystem of libraries to

choose from:

React provides you with the freedom to choose the tools, libraries, and architecture for developing an applications based on your requirement.

④ What is `useState()` in React?

Ans: The `useState()` is a built-in React hook that allows you for having state variables in functional components. It should be used when the DOM has something that is dynamically manipulating controlling.

⑤ What are keys in React?

Ans: A key is a special string attribute that needs to be included when using lists of elements.

⑥ What is JSX?

Ans: JSX stands for JavaScript XML. It allows us to write HTML inside JavaScript and place them in the DOM without using functions like `appendChild()` or `createElement()`.

As stated in the official doc of React, JSX provides syntactic sugar for React.

createElement() function. We can create react applications without using JSX as well.

Without using JSX, we would have to create an element by the following process:

```
const text = React.createElement('p', {}, 'This is a text');  
const container = React.createElement('div', {}, text);  
ReactDOM.render(container, rootElement);
```

→ Using JSX, the above code can be simplified:

```
const container = (  
  <div>  
    <p>This is a text</p>  
  </div>  
)  
ReactDOM.render(container, rootElement);
```

⑦ What are props in React?

Ans: The props stands for 'properties' in React. They are read-only inputs to components. Props are an object which store the value of attributes of a tag and work similar to the HTML attributes.

⑧ What is a state in React?

Ans:

The state is an updatable structure which holds the data and information about the component.