1. ReactJS
2. Webpack
3. Babel
4. React and React dom
5. Dom and virtual dom
6. Diffing algorithm
7. Reconciliation
8. React hooks
9. React component

Class and functional

Pure Component

Higher Order component

Controlled and uncontrolled component

1. React element
2. React unidirectional and single page application
3. React JSX
4. React render and return
5. React lifecycle methods
6. React state and props
7. React context
8. React props drilling
9. React key
10. React refs
11. React fragment
12. React Suspense component
13. React dynamic import
14. React lazy loading
15. React custom error page
16. React error boundaries
17. MVC and Flux model

**18. React keys**

React keys are special attribute that we need to include when creating list of elements in React. They help react identify which items have changed, updated or deleted from the lists.

It is useful when we dynamically created component or when the users alter the lists.

**Purpose**

The main purpose of keys in React is to optimize the reconciliation process (the process of updating the UI to match the new state).when we render a list of items in react, it needs to efficiently update the UI when the list changes.

React compares the new list with the previous one and updates only the necessary parts of the UI.keys help React determine which items have changed, been inserted, or been removed.

**Unique Identification**

Keys are unique identifiers for elements within a list. When react renders a list, it uses keys to keep track of each elements identity. This allows react to efficiently update the UI without re-rendering the entire list.

**Preventing re-ordering bugs**

Keys are essential for preventing re-ordering bugs. Without keys, React may mistakenly re-order elements based solely on their position in the array. This can lead to unexpected behavior, especially if the elements have internal state or if their order affects the ui.

**Choosing keys**

It is important to choose keys that are stable, unique and predictable. Using stable identifiers ensures that React can correctly identify elements across re-renders.