Chapter -04

Q: Is Jsx mandatory for react

A: No , Jsx is not mandatory we can use React.CreateElement instead. With Jsx we get more readability.

Q: Is ES6 mandatory for react

A: No , ES6 is not mandatory . But its recommended to use as we have arrow functions, variables etc.

Q: How can i write comments in Jsx

A: for single line comment -   
 {/\* comment \*/}

for single line comment -   
 {/\*

Multi

line

comment

\*/}

Q: what is react.fragment and <></>

A: React.fragment is a feature provided by react that allows you to return multiple elements from a react component by allowing you to group a list of children without adding extra nodes to the dom.

<></> is shorthand of <React.Fragment></React.Fragment>

Q: What is virtual DOM

A: Virtual DOM is a representation of actual DOM

Q: What is reconciliation in React

A: It is a process through which react updates browser DOM. it uses Diffing Algorithm to compare difference between virtual DOM tree and actual DOM tree and only updates the difference(only the specific node) due to which react is more faster.

Q: What is React Fiber

A: React Fiber is a concept of ReactJS that is used to render a system faster, smoother and smarter. The Fiber reconciler, which became the default reconciler for React 16 and above, is a complete rewrite of React’s reconciliation algorithm to solve some long-standing issues in React. Because Fiber is asynchronous, React can:

* Pause, resume, and restart rendering work on components as new updates come in
* Reuse previously completed work and even abort it if not needed
* Split work into chunks and prioritize tasks based on importance

Q: why and when do we need keys in react ?

A key is a special attribute you need to include when creating lists of elements in React. Keys are used in React to identify which items in the list are changed, updated, or deleted.

EX: ele1, ele2

Now we added ele3 in order : ele3, ele1, ele2

Now react will get to know through diff algo that one ele is added but it wont know which order and here comes the role of key to identify in which order what ele is added .

With keys -

Ele1 - key1, ele2- key2

After adding ele3: ele3-key3,ele1-key1,ele2-key2

Now react will know there is no change in ele1 and ele2 also ele3 is introduced in 0th order by comparing the keys.

We need keys when we have same type of children.

Ex:

Img,div,h1 - key not required as they can be identified uniquely by tags

Div,div,div - same tags so to identify uniquely keys will be required.

Q: can we use index as key in react

A: yes ,using index as key in react as valid. But its not an good practice to use index as order of items may change. We prefer to provide some unique key if we don't have any option for that in such cases we may use index as key.

Q: what is props in react? Ways to use props?

A: Props stands for properties which can be passed to react functional component. Props is used to pass data from one component to another.

Example:

<Hello name=”rhythm” />

Const Hello = (props) => (

<h1> hi {props.name} </h1>

)

Ways :

* we can use by destructuring the props

example:

<Hello name=”rhythm” />

Const Hello = (name) => (

<h1> hi {name} </h1>

)

* We can use spread operator in argument

Q: what is config driven UI

A: It is a UI which can be configured using backend you just need to define the layout ex what cards you need along with data. With help of it various layouts can be made using backend with minimal efforts and faster results.