SELF EXPLORATION QUESTIONS

1. **Difference Between HTTP Client & Axios.**

   - HTTP client will return an observable | Axios will return a promise.
   - HTTP client has to be subscribed and unsubscribed | Promise can only be cancelled.
   - HTTP client can refer to any software that sends HTTP requests. | Axios is a dedicated HTTP client library.
   - Axios simplifies the process of making HTTP requests and handling responses compared to native HTTP clients provided by browsers.

2. **Apart From Browser Module, What Are The Modules Available In React?**

   - ReactRouter
   - ReactContext
   - ReactRedux
   - ReactStrictMode
   - ReactMobX
   - ReactHookForm

3. **Inorder To Enable The Browser Module, What Are The Packages We Have To Import?**

   import { BrowserRouter as Router, Route, Switch, Link, useHistory, useParams } from 'react-router-dom';

4. **(react -router -native) Find what Is The Native Is Used For?**

   - react-router-dom is used for web application.
   - react-router-native is used for mobile application.

5. Apart From Browser Router, What Are The Other Routers We Have?

- Browser Router: Handle the dynamic URL.
- Hash Router: Handle the static requests.

6. Do We Have Pipe Concept In React?

- There is not a direct concept of pipes available in react. But the functionality that pipes provide in angular can be achieved in react using different approaches.
- Approach 1: In React, we often use functional components to render UI elements. We can create utility functions or components that accept input data and return transformed output. This is similar to creating custom pipes in Angular.
- Approach 2: React components can leverage JavaScript's array methods to transform data before rendering it in JSX.
- Approach 3: React allows us to create custom hooks to encapsulate logic that can be reused across components. This can be used for data transformation.

7. Difference Between State & Props.

- Props are used to send the data and event handlers to component children whereas the state, data of the component that must be presented to store the view in the state.
- Props are immutable whereas state are mutable.
- Props is for both functional and state component whereas state is only for class component.
- Parent component sets the props for the children component whereas event handlers are responsible for updating the state.

8. Difference Between Component In Angular & Component In React.

- Angular - Components are defined using a decorator. | React - Components are defined using functional or class-based methods.

- Angular uses dependency injection for managing dependencies. | React uses props and state for managing state.

9. What Are The Possible Data Binding Available In React & Angular?

- One way data binding.
- Two way data binding.

10. What Is State & Props In React?

- State represents an object whose properties can be managed by the component.
- The props are short for properties and are used to pass data from the parent component to the child component.

11. What Are The Types Of Component Available In React?

- Stateless components are functional components which will not keep the state of the user.
- Stateful components are class components which will keep the state of the user.

12. In What Situation HOC Component Is Used In Real Time?

In our Aspire Systems KB portal, the login page is the same for all users, but the view differs between trainees and the talent nurturing team.

13. How Many HTML File We Can Have It In Our React Application?

Only one HTML file that is index.html

14. What Is The Connector Between index.html & app.js ?

The connector between index.html and app.js is the index file tag in index.html that references the app.js file using a JavaScript variable.