**Theory Chapter 07**

**Q: Different ways to add image**

A: 1. Put in the assert folder and import from there

**Eg import Logo from ‘../assert/logo.png’**

**<img src={Logo} />**

2. Directly put the path in the src in the img

**Eg** **<img src=’../logo.png’ />**

**3.** Adding image as a react component {ADDING SVG}

**Eg : import {ReactComponent as Logo} from ‘../assert/logo.png’**

**const App =()=>{**

**return(<Logo />)**

**}**

**Q: console.log(useState) vs what does useEffect return**

**A:** useState return an array having 2 elements. First is the value and second is the function to set that state/variable value

[‘ ’,f] this will be printed when console.log(useState(‘ ’))

undefined will be printed when console.log(useEffect()) , as useEffect does not return anything

**Q: useEffect without any dependency**

**A:**when one does not pass any dependency in useEffect then useEffect will be called after each render

**Q: SPA**

**A:** Single page applications . when there is only one web document and that web document is updated vis javaScript or ajax call when one has to show different content on that single web document. Advantage is that user ll have a good experience.it allows to use the page with new content without reloading the whole page from the server. Has a disadvantage that there is no SEO. More effort is required to maintain the state of page along with the routing.

**Q: Client side routing vs server side routing**

**A: Routing** : it a way one can navigate through website or web application . By a single click the url changes and provides a new data/ screen to the user

**Server side route**

**When** on clicking , url changes and the whole is requested from the server , this is what called server side routing ,a whole new document is render on the screen, refreshing the whole page. Whole page is refreshing cz the browser made a get request and in response the server send a new whole page/document thus discarding the old document.

Advantage

1. Only the required data is fetched no more or less than that
2. SEO

Disadvantage

1. Whole new page comes in response thus refreshing the document . Even though most of the time header and footer remain same so we do not require those at every request
2. Can take a long time to render the page only happen when the document is large or the internet speed is slow

## **Client side routing**

**When**  the route is handle internally by javascript . whenever the url changes there is no request send to server . Change is url made change in the state of application thus showing different view/data to the user. Does not refresh the whole page

Advantage

1. Routing is fast
2. Smooth transition between pages

Disadvantage

1. No SEO
2. Initial rendering takes much time as whole app needs to be loaded in the first go