Assignment `07 - Finding the Path`

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1: What are various ways to add images into our App? Explain with code examples

- Using the full URL of the image for the web (CDN) or any public images.

Example : `<img src="https://reactjs.org/logo-og.png" alt="React Image" />`

- Adding the image into the project Drag your image into your project and import it into the desired component

```
import reactLogo from "./reactLogo.png";

export default function App() {

  return <img src={reactLogo} alt="react logo" />
}
```

- The correct way to structure images in your project is to add them in an `images` folder. If you are using other `assets` than just images, you might want to add all the `assets` folders.

```
import reactLogo from "../../assets/images/reactLogo.png";

export default function App() {

  return <img src={reactLogo} alt="react logo" />
}
```

2: What would happen if we do console.log(useState())?

If we do `console.log(useState())` , we get an array `[undefined, function]` where first item in an array is `state` is `undefined` and the second item in an array

is `setState` `function` is bound dispatchSetState.

3: How will useEffect behave if we don't add a dependency array ?

Syntax : useEffect(setup,[dependencies]?)

`useEffect(setup)` When the dependency array is not included in the arguments of useEffect() hook, the setup function will be executed `every time` the component is rendered and re-rendered.

4: What is SPA?

`Single Page Application (SPA)` is a web application that dynamically updates the webpage with data from web server without reloading/refreshing the entire page. All the HTML, CSS, JS are retrieved in the initial load and other data/resources can be loaded dynamically whenever required. An SPA is sometimes referred to as a `single-page interface (SPI)` .

Example : Facebook is a Single Page Application which loads lot of components and refreshes only the required component.

5: What is difference between Client Side Routing and Server Side Routing?

- In `Server-side routing or rendering (SSR)`

  1. All our Pages load from server everytime.

  2. Make a network call, get HTML, CSS, JS and loads the whole page.

- In `Client-side routing or rendering (CSR)` , during the first load, the webapp is loaded from server to client, after which whenever there is a change in URL, the router library navigates the user to the new page without sending any request to backend(don't do full page reload). All `Single Page Applications uses client-side routing` .

6: What is an Image CDN?

Image CDNs specializes in the transformation, optimization, and delivery of images. You can also think of them as APIs for accessing and manipulating the images used on your site. For images loaded from an image CDN, an image URL indicates not

only which image to load, but also parameters like size, format, and quality. This makes it easy to create variations of an image for different use cases.