

Session7 ⇒ 15/01/23

- What are various ways to add images into our App? Explain with code examples
- What would happen if we do `console.log(useState())`?
- How will `useEffect` behave if we don't add a dependency array ?
- What is SPA?
- What is difference between Client Side Routing and Server Side Routing?

Coding Assignment:

- Add Shimmer Effect without installing a library
- Install `react-router-dom`
- Create a `appRouter` and Provide it to the app
- Create a Home, About, Contact Page with Link (use child routes)
- Make a Error page for routing errors
- Create a Restaurant Page with dynamic restaurant ID
- (Extra) - Create a login Page using Formik Library

Resources:

- React Router DOM - <https://reactrouter.com/en/main>
- Client Side Routing - <https://reactrouter.com/en/main/start/overview>
- Formik - <https://formik.org/>

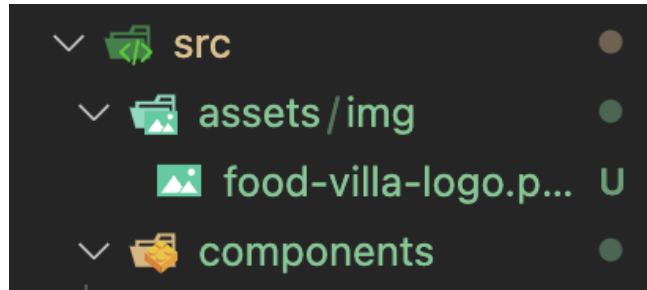
1. Ways to add images : -

a. Using Images Hosted Over a CDN

```
const Title = () => (  
  <a href="/">  
      
  </a>  
)
```

```
</a>  
);
```

b. Using Images Locally



```
import Logo from "../assets/img/food-villa-logo.png";  
  
const Title = () => (  
  <a href="/">  
    <img className="logo" src={Logo} alt="Food Villa" />  
  </a>  
);
```

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

⇒ It prints an array of size 2 bcoz we know that useState() returns an array of [anyStateVariable, functionToUpdateThatStateVariable].

⇒ Since we haven't defined the state variable , therefore it is showing it as a undefined.

► Array(2)

```
▼ Array(2) ⓘ  
  0: undefined  
  ► 1: f ()  
    length: 2  
  ► [[Prototype]]: Array(0)
```

```

▼ 1: f ()
  length: 1
  name: "bound dispatchSetState"
  arguments: (...)
  caller: (...)
  ► [[Prototype]]: f ()
  ► [[TargetFunction]]: f dispatchSetState(fiber, queue, action)
  ► [[BoundThis]]: null
  ► [[BoundArgs]]: Array(2)

```

3. If we don't add an dependency array, then the useEffect hook will be called every-time the component re-renders i.e. whenever state or prop changes.

4. SPA ⇒ Single Page Application

⇒ Different routes are not pages but different components

⇒ Whenever we click on a link, only the components which needs to be displayed are changed.

⇒ And since there are no different pages, therefore by going from one link to another, the website does not get reloaded/refreshed.

5. Client Side Routing ⇒ whatever needs to be displayed according to the route, is already present on the client side (with the help of various components).

Server Side Routing ⇒ whatever needs to be displayed according to the route, is fetched from the server, and this fetching is done by making a network call to the server which ultimately results into reloading of the webpage.