What Are React Hooks?

- Hooks are functions that let you "hook into"
 React's state and lifecycle features in functional
 components.
- Why Hooks? Hooks eliminate the need for class components, simplifying code structure and making functional components more powerful.
- Types of built in hooks:
 - state hooks
 - context hooks
 - ref hooks
 - performance hooks
 - resource hooks

These are some common used hooks:

- useState:
- Program to demonstrate the use of a state variable in a functional component and how to update it accordingly.

- useEffect:
- The useEffect in ReactJS is used to handle the side effects such as fetching data and updating DOM.

```
import React, { useMemo, useState, useEffect } from "react"
import { getPatient, deletePatient } from "../../service/api"
const [alluserlist, setallusers] = useState({ users: [] })
const [loading, setLoading] = useState(true);
useEffect(() => {
 fetchPatientData()
}, [])
const fetchPatientData = async () => {
   let response = await getPatient()
   if (response.error) {
      console.log("Error while fetching data:", response.error)
    } else {
      setallusers({ users: response.data || [] })
  catch (error) {
   console.log("Error while fetching data:", error)
   finally {
    setLoading(false);
```

useParams:

 The useParams hook returns an object of key/value pairs of the dynamic params from the current URL that were matched by the <Route path>. Child routes inherit all params from their parent routes.