

Day 14 – [8th July 2025]

TOPICS COVERED

Props in React:

Props (short for "properties") are used to pass data from one component to another in React. They make components reusable and dynamic.

Example:

```
function Greeting(props) {  
  return <h2>Hello, {props.name}!</h2>;  
}  
  
function App() {  
  return <Greeting name="Navpreet" />;  
}
```

name is a prop passed to the Greeting component, and it is accessed using props.name.

useEffect Hook:

The useEffect() hook lets us run side effects in functional components.

It is often used for fetching data, DOM manipulation, timers, etc.

Basic syntax:

```
useEffect(() => {  
  // code to run after render  
}, [dependencies]);
```

Runs after the first render and when dependencies change

If dependency array is empty [], it runs only once like componentDidMount

Example:

```
import { useEffect } from "react";  
  
useEffect(() => {  
  console.log("Component mounted");  
}, []);
```

Fetching Data from API in React:

We often use `fetch()` along with `useEffect()` to load data when the component mounts.

Example:

```
import { useState, useEffect } from "react";

function App() {
  const [users, setUsers] = useState([]);
  useEffect(() => {
    fetch("https://jsonplaceholder.typicode.com/users")
      .then(res => res.json())
      .then(data => setUsers(data));
  }, []);
  return (
    <div>
      <h1>Users List</h1>
      <ul>
        {users.map(user => (
          <li key={user.id}>{user.name}</li>
        ))}
      </ul>
    </div>
  );
}
```

In this example:

Data is fetched once when the component mounts

The user list is stored in state using `useState`

The data is rendered using `.map()` in JSX

Rendering with `.map()` in JSX:

The `.map()` function is commonly used to render lists of elements in React.

Example:

```
const fruits = ["Apple", "Banana", "Cherry"];
return (
```

```

<ul>
  { fruits.map((fruit, index) => (
    <li key={index}>{fruit}</li>
  ))}
</ul>
);
.map() creates a list of <li> elements from the array.

```

TOOLS USED:

Visual Studio Code

Vite + React

Chrome Browser + DevTools

JSONPlaceholder API (for dummy user data)

TASK:

Practice API Calling using React.

14_Day14_code.jsx

```

import { useState, useEffect } from "react";
import UserCard from "../UserCard";

function App() {
  const [users, setUsers] = useState([]);
  useEffect(() => {
    // Fetch user data
    async function getUsers() {
      const response = await fetch("https://fakestoreapi.com/users");
      const data = await response.json();
      setUsers(data);
    }
    getUsers();
  }, []);

```

```

return (
  <div style={{
    backgroundColor: "lavender",
    minHeight: "100vh",
    padding: "30px",
    fontFamily: "Arial"
  }}>
    <h1 style={{ textAlign: "center", color: "purple" }}>User List</h1>
    <div style={{
      display: "flex",
      flexWrap: "wrap",
      justifyContent: "center",
      gap: "20px",
      marginTop: "30px"
    }}>
      {users.map(user => (
        <UserCard key={user.id} name={user.name.firstname + " " + user.name.lastname}
        email={user.email} />
      ))}
    </div>
  </div>
);
}
export default App;

```

14_Day14_codecard.jsx

```

function UserCard({ name, email }) {
  return (
    <div style={{
      backgroundColor: "white",
      padding: "16px",
      border: "2px solid lightgray",
      borderRadius: "10px",

```

```

width: "220px",
textAlign: "center",
boxShadow: "0 4px 8px gray"
}}>
<h3 style={{ color: "darkblue", marginBottom: "8px" }}>{name}</h3>
<p style={{ color: "black" }}>{email}</p>
</div>
);
}
export default UserCard;

```

