

Training Day 14

8th July 2025

TOPICS COVERED

- **Props in React**

Props are used to pass data from one component to another in React. They allow components to be dynamic and reusable.

Key Points:

Props are read-only

Passed as attributes to components

Accessed in functional components via props parameter or destructuring

Example:

```
function Welcome(props) {  
  return <h1>Hello, {props.name}</h1>;  
}
```

- **Fetching Data from APIs in React**

React commonly uses the fetch() API or third-party libraries like Axios to retrieve data from external sources. Fetching is typically done inside the useEffect hook.

Basic Example using fetch and useEffect:

```
import { useEffect, useState } from 'react';  
  
function UsersList() {  
  const [users, setUsers] = useState([]);  
  
  useEffect(() => {  
    fetch('https://jsonplaceholder.typicode.com/users')  
      .then(res => res.json())  
      .then(data => setUsers(data));  
  });  
}
```

```
    }, []);  
    return (  
      <ul>  
        {users.map(user => (  
          <li key={user.id}>{user.name}</li>  
        ))}  
      </ul> );  
    )  
  }  
}
```

- **JSX Rendering with .map()**

.map() is used in JSX to dynamically render lists of elements from arrays.

Example:

```
const fruits = ['Apple', 'Banana', 'Cherry'];  
function FruitList() {  
  return (  
    <ul>  
      {fruits.map((fruit, index) => (  
        <li key={index}>{fruit}</li>  
      ))}  
    </ul>  
  );  
}
```

TOOLS USED

Visual Studio Code

Chrome Browser (DevTools)

React Developer Tools Extension

JSONPlaceholder (Fake API for testing)