

# Cheat Sheet: In-depth Understanding of Advanced React Functionality

Hooks and form management	Description	Code example
useState()	useState() hook can manage states of the React function component where you can declare any data type, for example, boolean, object, array, string.	<div>1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 11. 11 12. 12</div> <pre>1. import React, { useState, useEffect } from 'react'; 2. function SideEffect() { 3.   const [empId, setEmpId] = useState(100); 4.   return ( 5.     &lt;div&gt; 6.       &lt;p&gt;{empId}&lt;/p&gt; 7.     &lt;/div&gt; 8.   ); 9. } 10. export default SideEffect; 11. 12.</pre>
		<div>Copied!</div> <div>1. 1 2. 2 3. 3 4. 4 5. 5 6. 6 7. 7 8. 8 9. 9 10. 10 11. 11 12. 12 13. 13 14. 14 15. 15 16. 16 17. 17 18. 18 19. 19 20. 20 21. 21 22. 22 23. 23 24. 24 25. 25 26. 26 27. 27 28. 28 29. 29 30. 30 31. 31 32. 32 33. 33 34. 34 35. 35</div> <pre>1. 2. import React, { useState, useEffect } from 'react'; 3. function SideEffect() { 4.   const [foods, setFoods] = useState([]);</pre>

```
5.   useEffect(() => {
6.     fetch('https://api.npoint.io/d542b9ad99f501ab3dbf')
7.       .then(response => response.json())
8.       .then(data => {
9.         console.log(data);
10.        setFoods(data);
11.      })
12.     .catch(error => console.error('Error fetching users:', error));
13.   },[]); // Empty dependency array means this effect runs only once when the component mounts
14.   return (
15.     <div>
16.       <h1>Food List</h1>
17.       <ul>
18.         {foods.map((food)=>{
19.           return (<
20.             <li><h1>{food.name}</h1></li>
21.             <p>food.description</p>
22.             <p>food.price</p>
23.             <p>food.category</p>
24.             <p>food.ingredients</p>
25.             <img src={food.image_url} alt="" height='100px' width='100px' />
26.           </>
27.         )}
28.       )}
29.     </ul>
30.   )
31.   </div>
32. );
33. }
34. export default SideEffect;
35.
```

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Custom hook

You can use custom hooks in any other component. In this code snippet, there is one function component known as `UseToggle`, which serves as a custom hook, and another function component `ToggleButton`, which will use this custom hook.

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1.
2. //ToggleButton
3. import { useState } from 'react';
4. import UseToggle from './UseToggle';
5. function ToggleButton() {
```

fetch api method

Fetch method can fetch data using API.

axios api method

Axios method can fetch data using API.

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```
6.   const [isToggled, toggle] = UseToggle(false);
7.
8.   return (
9.     <div>
10.      <h1>Toggle Button</h1>
11.      <button onClick={toggle}>
12.        {isToggled ? 'ON' : 'OFF'}
13.      </button>
14.    </div>
15.  );
16. }
17. export default ToggleButton;
18.
19. //UseToggle.jsx
20. import { useState } from "react";
21.
22. function UseToggle(initialValue = false) {
23.   const [value, setValue] = useState(initialValue);
24.
25.   const toggle = () => {
26.     setValue(!value);
27.   };
28.
29.   return [value, toggle];
30. }
31.
32. export default UseToggle
33.
34.
```

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```
1. const apiUrl = 'https://jsonplaceholder.typicode.com/posts';
2. fetch(apiUrl)
3.   .then(response => response.json())
4.   .then(data => {
5.     console.log(data);
6.   })
7.   .catch(error => {
8.     console.error('There was a problem with the fetch operation:', error);
9.   });
10.
```

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```
1. import axios from 'axios';
2. const apiUrl = 'https://jsonplaceholder.typicode.com/posts';
3. axios.get(apiUrl)
4.   .then(response => {
5.     console.log(response.data);
6.   })
7.   .catch(error => {
```

onChange

The onChange event attribute is often used in HTML and React to track when the value of an input field changes, like a text input. The onChange event occurs when a user writes something into an input field. This attribute lets you record and handle the changes.

Redux toolkit

Redux toolkit can be installed using npm

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```
8.     console.error('There was a problem with the fetch operation:', error);
9.   });
10.
11.
```

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```

```
1. import React, { useState } from 'react';
2. function FormData() {
3.   const [empName, setEmpName] = useState('');
4.   const handleChange = event => {
5.     setEmpName(event.target.value);
6.   };
7.   const handleSubmit = event => {
8.     event.preventDefault();
9.     console.log('Form submitted:', empName);
10.  };
11.
12.  return (
13.    <div>
14.      <h2>My Form</h2>
15.      <form onSubmit={handleSubmit}>
16.        <label>
17.          Input:
18.          <input type="text" value={empName} onChange={handleChange} />
19.        </label>
20.        <button type="submit">Submit</button>
21.      </form>
22.    </div>
23.  );
24. }
25.
26. export default FormData;
```

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```
1. 1

1. npm install @reduxjs/toolkit.
```

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# Skills Network