let's go through each of these hooks and examples for each.

```
1. **useState**:
The `useState` hook allows functional components to manage state.
Example 1: Simple Counter using useState
```jsx
import React, { useState } from 'react';
function Counter() {
 const [count, setCount] = useState(0);
 const increment = () => {
 setCount(count + 1);
 };
 const decrement = () => {
 setCount(count - 1);
 };
 return (
 <div>
 <h2>Counter</h2>
 Count: {count}
 <button onClick={increment}>Increment</button>
 <button onClick={decrement}>Decrement</button>
 </div>
);
}
export default Counter;
Example 2: Form Input using useState
```jsx
import React, { useState } from 'react';
```

function Form() {

const [value, setValue] = useState(");

const handleChange = (e) => {

```
setValue(e.target.value);
 };
 const handleSubmit = (e) => {
  e.preventDefault();
  console.log('Submitted value:', value);
  // Perform form submission logic here
 };
 return (
  <form onSubmit={handleSubmit}>
   <input type="text" value={value} onChange={handleChange} />
   <button type="submit">Submit
  </form>
 );
}
export default Form;
2. **useEffect**:
The `useEffect` hook allows functional components to perform side effects.
Example 1: Fetching data with useEffect
```jsx
import React, { useState, useEffect } from 'react';
function DataFetching() {
 const [data, setData] = useState(null);
 useEffect(() => {
 fetch('https://api.example.com/data')
 .then(response => response.json())
 .then(data => setData(data))
 .catch(error => console.error('Error fetching data:', error));
 }, []);
 return (
 <div>
 <h2>Data Fetching</h2>
 {data?(
```

```
{data.map(item => {item.name})}
):(
 Loading...
)}
 </div>
);
}
export default DataFetching;
Example 2: Subscribing to window events with useEffect
```jsx
import React, { useState, useEffect } from 'react';
function WindowResize() {
 const [windowSize, setWindowSize] = useState(window.innerWidth);
 useEffect(() => {
  const handleResize = () => {
   setWindowSize(window.innerWidth);
  };
  window.addEventListener('resize', handleResize);
  return () => {
   window.removeEventListener('resize', handleResize);
  };
 }, []);
 return (
  <div>
   <h2>Window Resize</h2>
   Window width: {windowSize}px
  </div>
);
}
export default WindowResize;
3. **useContext**:
```

The `useContext` hook allows functional components to consume context.

Example 1: Creating and consuming a context

```
```jsx
import React, { useContext } from 'react';
const ThemeContext = React.createContext('light');
function ThemeProvider({ children }) {
 return <ThemeContext.Provider value="dark">{children}</ThemeContext.Provider>;
}
function ThemedComponent() {
 const theme = useContext(ThemeContext);
 return (
 <div>
 <h2>Themed Component</h2>
 Current theme: {theme}
 </div>
);
}
export { ThemeProvider, ThemedComponent };
Example 2: Using multiple contexts in a component
```jsx
import React, { useContext } from 'react';
const ThemeContext = React.createContext('light');
const UserContext = React.createContext(null);
function UserProfile() {
 const theme = useContext(ThemeContext);
 const user = useContext(UserContext);
 return (
  <div>
   <h2>User Profile</h2>
```

Username: {user? user.username: 'Guest'}

```
Theme: {theme}
  </div>
);
}
export { ThemeContext, UserContext, UserProfile };
4. **Custom hooks**:
Custom hooks allow you to extract reusable logic from components.
Example 1: Custom hook for fetching data
```jsx
import { useState, useEffect } from 'react';
function useDataFetching(url) {
 const [data, setData] = useState(null);
 const [loading, setLoading] = useState(true);
 const [error, setError] = useState(null);
 useEffect(() => {
 const fetchData = async () => {
 try {
 const response = await fetch(url);
 const result = await response.json();
 setData(result);
 setLoading(false);
 } catch (error) {
 setError(error);
 setLoading(false);
 }
 };
 fetchData();
 }, [url]);
 return { data, loading, error };
}
export default useDataFetching;
```

Example 2: Custom hook for debouncing user input

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

function useDebounce(value, delay) {
 const [debouncedValue, setDebouncedValue] = useState(value);

 useEffect(() => {
 const timerId = setTimeout(() => {
 setDebouncedValue(value);
 }, delay);

 return () => {
 clearTimeout(timerId);
 };
 }, [value, delay]);

 return debouncedValue;
}

export default useDebounce;
```

In each example, we've provided two distinct use cases for the given hook to demonstrate its versatility and applicability in different scenarios.