# New hook: 'useOptimistic'

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REACT 19

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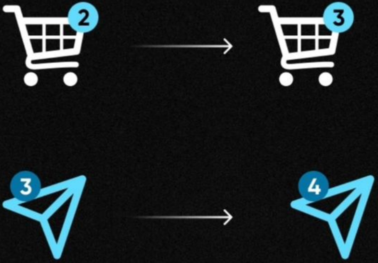
## Purpose

The useOptimistic hook enhances user experience by enabling immediate UI updates based on anticipated results, even before the server confirms the action.

This creates the illusion of a faster and more responsive application.



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## How it works

1. User Initiates Action: A user interaction triggers an action, such as submitting a form or clicking a button.

2. Optimistic State Creation: The `useOptimistic` hook takes the current state as input and returns an object containing two key parts:

   - `optimisticValue`: This represents the anticipated state after the action is successful.
   - `updateOptimistic`: This function allows you to update the optimisticValue based on user input or other factors.

3. UI Update with Optimistic State: The UI component utilizes the optimisticValue to reflect the expected change on the screen.

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4 Background Operation Runs: In the background, the actual operation (e.g., sending data to the server) is carried out.

5 Outcome Handling:

- Success: Upon successful completion, the optimistic state becomes the permanent state, and the UI remains consistent.
- Failure: If the operation fails, the UI is reverted to its original state, potentially displaying an error message.

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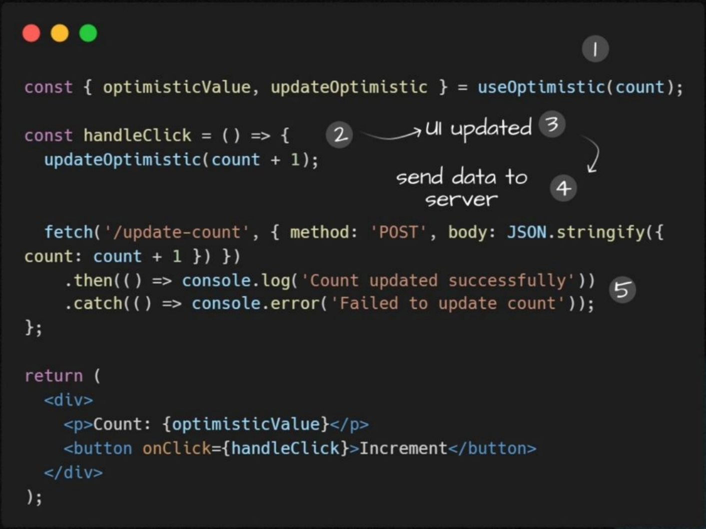

```
const { optimisticValue, updateOptimistic } = useOptimistic(count);

const handleClick = () => {
  updateOptimistic(count + 1);


  fetch('/update-count', { method: 'POST', body: JSON.stringify({
count: count + 1 }) })
    .then(() => console.log('Count updated successfully'))
    .catch(() => console.error('Failed to update count'));
};

return (
  <div>
    <p>Count: {optimisticValue}</p>
    <button onClick={handleClick}>Increment</button>
  </div>
);
```

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## Real life Applications

**E-commerce Shopping Carts**: Update cart totals immediately after adding or removing items, providing a smooth shopping experience.

3

**Messaging Applications**: Display messages as "sent" right away, even before server confirmation, enhancing the feeling of real-time chat interaction.

3

**Social Media Likes**: Show a like animation and update the like count instantly upon clicking the "Like" button, creating a more engaging user experience.

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