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The Future of Data Fetching in React

React has recently announced the development of a new hook that will provide first-class support for Promises. This means that fetching data from an API and rendering it with HTML in React will become even simpler.



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In previous versions of React, the traditional way of fetching data involved using the `useState` and `useEffect` hooks to manage state and perform side effects. For example, the following code snippet shows how data was fetched and rendered in React 16+:

```

const Post = () => {
  const [post, setPost] = useState(null);
  const [loading, setLoading] = useState(true);
  useEffect(() => {
    axios
      .get('https://jsonplaceholder.typicode.com/posts/1')
      .then((res) => {
        setPost(res.data);
        setLoading(false);
      })
      .catch((err) => {
        console.log(err);
        setLoading(false);
      });
  }, []);
  return (
    <div>
      {loading ? (
        <div>Loading...</div>
      ) : (
        <div>
          <h1>{post.title}</h1>
          <p>{post.body}</p>
        </div>
      )}
    </div>
  );
};
// Parent component
<Post />

```

However, with React 18 and the introduction of `Suspense`, the code has become simpler. The following code snippet shows the updated code using React 18:

```

const Post = () => {
  const [post, setPost] = useState(null);
  useEffect(() => {
    axios
      .get('https://jsonplaceholder.typicode.com/posts/1')
      .then((res) => {
        setPost(res.data);

```

```

    })
    .catch((err) => {
      console.log(err);
    });
  }, []);
  return (
    <div>
      <h1>{post.title}</h1>
      <p>{post.body}</p>
    </div>
  );
};

```

```

// Parent component
<Suspense fallback="Loading...">
  <Post />
</Suspense>

```

Despite this improvement, the `useEffect` hook can still be a source of annoyance for developers. To address this, React is developing a new hook called `use`, which provides first-class support for Promises.

With the `use` hook, the code for fetching and rendering data can be further simplified. The following code snippet shows how the use hook can be used to fetch and render data:

```

const Post = () => {
  const { data } = use(axios.get('https://jsonplaceholder.typicode.com/posts/'));
  return (
    <div>
      <h1>{data.title}</h1>
      <p>{data.body}</p>
    </div>
  );
};

// Parent component
<ErrorBoundary fallback="Error">
  <Suspense fallback="Loading...">
    <Post />
  </Suspense>
</ErrorBoundary>

```

```
</Suspense>  
</ErrorBoundary>
```

You can extend React 18s error boundaries to handle the errors. Your component is much simpler now.

In summary, while the traditional way of fetching and rendering data using `useState` and `useEffect` hooks has been effective, but it can be a source of annoyance for developers. React's new use hook provides a simpler and more efficient way to fetch and render data in React applications, making the process even more streamlined and straightforward.

Remember, `use` hook is still under development and not recommended to use in production. [Here's a demo.](#)

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