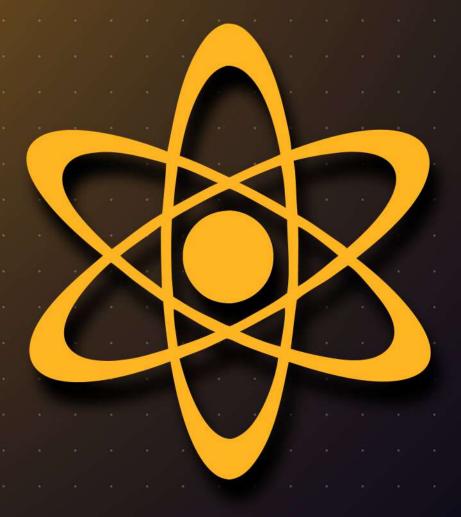
API Calls with Promises in React:



Simplify Your Async Operations!





DAY

DAY1 React Js

Why Promises Matter in React



- · Handle asynchronous operations more cleanly.
- · Avoid callback hell with promise chaining.
- · Simplify data fetching, sequencing, and more.
- · Improve code readability and maintainability.



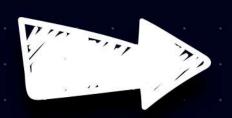


Fetching Data from an API



- · Promises streamline data retrieval.
- · Avoids deeply nested callbacks.
- · Ensures error handling in one place.
- · Makes your code more predictable.







Without Promises

```
function fetchData(callback) {
  const xhr = new XMLHttpRequest();
  xhr.open('GET', 'https://lnkd.in/gvDcCTes', true);
  xhr.onload = function () {
    if (xhr.status === 200) {
      callback(null, JSON.parse(xhr.responseText));
    } else {
      callback(xhr.statusText);
 };
  xhr.send();
```

Example: Fetching Data from an API







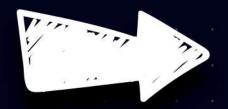


With Promises

```
function fetchData() {
  return fetch('https://lnkd.in/gcmGHA4t')
    .then((response) => response.json())
    .then((data) => data)
    .catch((error) => console.error('Error:', error));
}
fetchData().then(setData);
```

Key Takeaway: Promises make API calls cleaner and more manageable







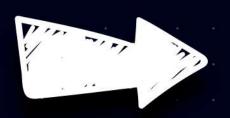
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Handling Multiple Asynchronous Operations



- · Manage multiple async operations effortlessly.
- · Wait for all operations to complete before proceeding.
- · Avoid complex nested callbacks.
- · Use Promise.all for cleaner code.







With Promises

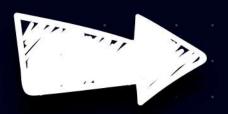
```
function fetchData1() {
  return fetch('https://lnkd.in/gTRTwPR3').then((response) => response.json());

function fetchData2() {
  return fetch('https://lnkd.in/gA-tNzbs').then((response) => response.json());
}

Promise.all([fetchData1(), fetchData2()]).then(([data1, data2]) => {
  setData({ data1, data2 });
});
```

Key Takeaway: Promise all simplifies handling multiple async operations.



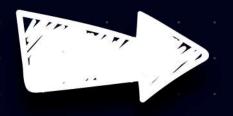


Without Promises

```
function fetchSequentialData(callback) {
  fetchData1((err, result1) => {
    if (err) return callback(err);
    fetchData2(result1.id, (err, result2) => {
        if (err) return callback(err);
        callback(null, result2);
        });
    });
});
}
```

Example: Fetching Multiple Data







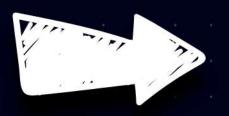


Sequential Asynchronous Operations



- · Handle dependent operations with promise chaining.
- · Each operation waits for the previous one to complete.
- · Avoid deeply nested callbacks.
- · More intuitive and readable flow.





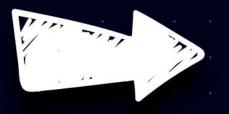


Without Promises

```
function fetchSequentialData(callback) {
  fetchData1((err, result1) => {
    if (err) return callback(err);
    fetchData2(result1.id, (err, result2) => {
        if (err) return callback(err);
        callback(null, result2);
        });
    });
});
}
```

Example: Sequential Operations





With Promises

```
function fetchData1() {
   return fetch('https://lnkd.in/gTRTwPR3').then((response) => response.json());
}

function fetchData2(id) {
   return fetch('https://lnkd.in/gb3YDWZ8?id=${id}').then((response) => response.json());
}

fetchData1()
   .then((data1) => fetchData2(data1.id))
   .then(setData)
   .catch((error) => console.error('Error:', error));
```

Key Takeaway: Chain promises for sequential operations





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CONCLUSION:

Embrace Promises in React

- · Use promises to simplify asynchronous code.
- · Avoid callback hell with chaining and Promise.all.
- · Write more maintainable and error-proof code.

Discussion

How do you use promises in your React projects?

SHARE IN THE COMMENTS!



