


Async in LWC

You might have seen something like this before:

```
async retrieveData() {  
    await getAccounts({ country: this.country }).then(async accounts => {  
        await findPartners({ accounts: accounts }).then(partners => {  
            this.partners = partners;  
        });  
    });  
}
```




This approach results in a callback nest that is difficult to understand and debug. On the next page, you will learn how to do it properly!



Use **async/await** when you want asynchronous code to behave like a synchronous one. JavaScript will pause function execution until the promise settles:

```
async retrieveData() {  
  try {  
    const accounts = await getAccounts({ country: this.country });  
    this.partners = await findPartners({ accounts: accounts });  
  } catch (error) {  
    console.error(error);  
  }  
}
```



If the data can be displayed later, or if you wish to perform another action only after the promise has been settled, utilize the **then/catch** block:

```
retrieveAccounts() {  
  getAccounts({ country: this.country })  
    .then(accounts => {  
      this.accounts = accounts;  
    })  
    .catch(error => {  
      console.error(error);  
    })  
    .finally( () => {  
      this.hideSpinner();  
    })  
}
```




Do not combine then/catch and async/await

It creates difficult to understand code, debugging is complicated and breaks the KISS principle



```
async function example() {  
  return await myPromise().then(result => {  
    console.log(result);  
  });  
}
```




```
async example() {  
  const data = await myPromise();  
  
  return data;  
}
```




Avoid nesting promises

Instead of additional then/catch blocks, try to refactor the code into smaller blocks or use async/await instead.



```
example(userId) {  
  getAccount(userId).then(account => {  
    return getPartner(account.Name).then(partner => {  
      return getPartnerOrder(partner.OrderId).then(details => {  
        this.partnerOrders = details;  
      });  
    });  
  });  
});  
}
```



```
async example(userId) {  
  const account = await getAccount(userId);  
  const partner = await getPartner(account.Name);  
  this.partnerOrders = await getPartnerOrder(partner.OrderId);  
}
```




Don't create new promises


In most cases, there is no reason to explicitly create promises. And especially, don't wrap promises within a promise.



```
example() {  
  return new Promise((resolve, reject) => {  
    asyncMethod  
      .then(result => {  
        resolve(result);  
      })  
      .catch(error => {  
        reject(error);  
      });  
  })  
}
```



```
async example() {  
  return await asyncMethod();  
}
```



```
example() {  
  return asyncMethod().then(result => {  
    console.log(result);  
  });  
}
```