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Fetch API

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Overview

`Fetch()` allows us to make network requests similar to `XMLHttpRequest(XHR)`. The biggest difference with using the Fetch API is that it utilises promises, which allows for simpler and cleaner code. As a result, this avoids callback hell and remembering the complex API of `XHR`

Tutorial

A traditional `GET` `XMLHttpRequest` would look like this:

```
const req = new XMLHttpRequest();
req.onreadystatechange = () => {
  // Example handle logic
  if (req.status === 200 && req.readyState == 4) {
    if (req.getResponseHeader("Content-Type") === "application/json") {
      console.log("oh look its some JSON: " + req.responseText);
    } else {
      console.log(
        "Looks like its not JSON but lets see what it is... " + req.responseText
      );
    }
  } else {
    console.log("Oh no... handle error");
  }
};
req.open("GET", "https://jsonplaceholder.typicode.com/comments");
req.setRequestHeader("example-header", "some-value");
req.send();
```

GET Request

As you can tell there is a lot more to keep track of and can be a little more complicated. The fetch `GET` request below on the other hand is more cleaner and simpler compared to the `XMLHttpRequest` above:

```
fetch(`https://jsonplaceholder.typicode.com/comments`) // 1
  .then((response) => {
    if (response.status !== 200) { // 2
      console.error(`status: ${reponse.status}`);
      return;
    }
    response.json() // 3
    .then(data => console.info(data)) // 4
  }).catch((err)=> console.error(`${err}`)); // 5
}
```

Let's break this `fetch()` request down:

1. At line one we start using the `fetch()` method and we provide it with the URL we want to target.

1. **GET** request for 'List User'

▶ Solution

2. **GET** request for 'Single User' with the id of **2**

▶ Solution

3. **POST** request for 'Create'

- **name** with a value of "Morpheus"
- **job** with a value of "Leader"

▶ Solution

4. **POST** request for 'Register - Successful'

- **email** with a value of "eve.holt@regres.inheus"
- **password** with a value of "pistol"

▶ Solution

5. **POST** request for 'Login - Successful'

- **email** with a value of "eve.holt@regres.inheus"
- **password** with a value of "cityslicka"

▶ Solution