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## APPLICATION PROGRAMMING INTERFACE(API)

#### WHAT YOU WILL LEARN

- JavaScript Fetch API
- Sending a Request
- Reading the Response
- ➤ Handling the status codes of the Response

#### JavaScript Fetch API

- The Fetch API is a modern interface that allows you to make HTTP requests to servers from web browsers.
- The fetch() method is available in the global scope that instructs the web browsers to send a request to a URL.
- o If you have worked with XMLHttpRequest (XHR) object, the Fetch API can perform all the tasks as the XHR object does.

### Sending a Request

The fetch() requires only one parameter which is the URL of the resource that you want to fetch:

 If the contents of the response are in the raw text format, you can use the text() method. The text() method returns a Promise that resolves with the complete contents of the fetched resource:

```
fetch('/readme.txt')
   .then(response => response.text())
   .then(data => console.log(data));
```

In practice, you often use the async / await with the fetch() method like this:

```
async function fetchText() {
    let response = await fetch('/readme.txt');
    let data = await response.text();
    console.log(data);
}
```

```
Besides the text() method, the Response object has other methods such as json(), blob(), formData() and arrayBuffer() to handle the respective type of data.
```

The Response object provides the status code and status text via the status and statusText properties. When a request is successful, the status code is 200 and status text is CK:

```
async function fetchText() {
    let response = await fetch('/readme.txt');

    console.log(response.status); // 200
    console.log(response.statusText); // OK

    if (response.status === 200) {
        let data = await response.text();
        // handle data
    }
}

fetchText();
```

#### Output:

```
200
OK
```

If the requested resource doesn't exist, the response code is 404:

```
let response = await fetch('/non-existence.txt');
console.log(response.status); // 400
console.log(response.statusText); // Not Found
```

#### Output:

```
400
Not Found
```