# 16. fetch APIs and DOM Manipulation Revisited

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## 1. Fetch API

The fetch() method starts the process of fetching a resource from a server.

The fetch() method returns a Promise that resolves to a Response object.

```
const data = await fetch('https://dummyjson.com/products/1');
const jsonData = await data.json();
```

or

## Handling the status codes of the Response

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 OK:

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

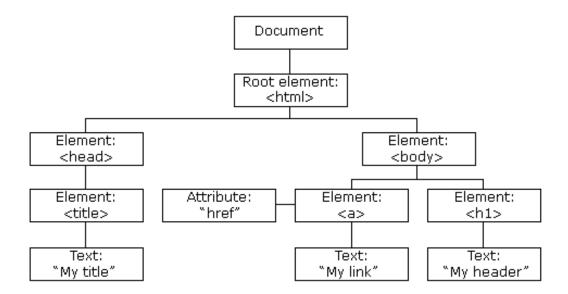
    console.log(response.status); // 200
    console.log(response.statusText); // OK

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

fetchText();
```

We also have headers and other options in Fetch API, but we will learn more about them later in this course (while learning NodeJS)

# 2. DOM Navigation



The nodes in the node tree have a hierarchical relationship to each other.

The terms parent, child, and sibling are used to describe the relationships.

- In a node tree, the top node is called the root (or root node)
- Every node has exactly one parent, except the root (which has no parent)
- A node can have a number of children
- Siblings (brothers or sisters) are nodes with the same parent

#### **▼** Navigating between Nodes

You can use the following node properties to navigate between nodes with JavaScript:

- parentNode
- childNodes[ nodenumber ]
- firstChild
- lastChild
- nextSibling
- previousSibling

#### **▼ Node Values**

```
<title id="demo">DOM Tutorial</title>
```

The element node <title> (in the example above) does **not** contain text.

It contains a **text node** with the value "DOM Tutorial".

The value of the text node can be accessed by the node's innerHTML property:

```
myTitle = document.getElementById("demo").innerHTML;
```

Accessing the innerHTML property is the same as accessing the nodeValue of the first child:

```
myTitle = document.getElementById("demo").firstChild.nodeValue;
```

### **▼** Document Body and Element

There are two special properties that allow access to the full document:

- document . body
   The body of the document (returns the <body> element)
- document.documentElement The full document (returns the <html> element)

## **Assignments**

- 1. Build a Random Joke Generator whenever the Next Joke Button is Clicked. Use API: <a href="https://icanhazdadjoke.com/slack">https://icanhazdadjoke.com/slack</a>
- 2. Add the bottom navigational dots in the Image Slider.
- 3. Build a List of Quotes along with the author names. Use API: <a href="https://dummyjson.com/quotes">https://dummyjson.com/quotes</a>