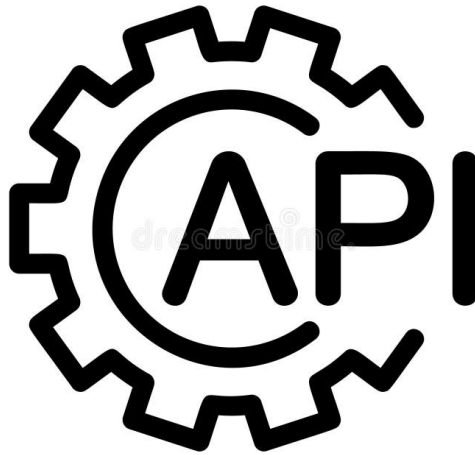


10.0 Introduction to Web API



-
- A Web API is an interface that provides extended functionality for a web application.
 - It can greatly simplify complex functions
 - It can provide easy syntax to complex code

What is Web API?

- API stands for Application Programming Interface.
- A web API is an application programming interface for the Web.
- A browser API can extend the functionality of a web browser.
- A server API can extend the functionality of a web server.

Browser APIs

- All browsers have a set of built-in Web APIs to support complex operations, and to help accessing data.
 - For example, the Geolocation API can return the coordinates of where the browser is located.
 - Get the latitude and longitude of the user's position:

```
const myElement = document.getElementById("demo");
```

```
function getLocation() {  
    if (navigator.geolocation) {  
        navigator.geolocation.getCurrentPosition(showPosition);  
    } else {  
        myElement.innerHTML = "Geolocation is not supported by this browser.";  
    }  
}
```

```

    }
}

function showPosition(position) {
    myElement.innerHTML = "Latitude: " + position.coords.latitude +
    "<br>Longitude: " + position.coords.longitude;
}

```

Working with the browser history

- The `back()` method loads the previous URL in the `windows.history` list.
- It is the same as clicking the "back arrow" in your browser.

```
<button onclick="myFunction()">Go Back</button>
```

```

<script>
function myFunction() {
    window.history.back();
}
</script>

```

- The `go()` method loads a specific URL from the history list:

```
<button onclick="myFunction()">Go Back 2 Pages</button>
```

```

<script>
function myFunction() {
    window.history.go(-2);
}
</script>

```

Third Party APIs

- Third party APIs are not built into your browser.
- To use these APIs, you will have to download the code from the Web.
 - YouTube API - Allows you to display videos on a web site.
 - Twitter API - Allows you to display Tweets on a web site.
 - Facebook API - Allows you to display Facebook info on a web site.

Additional Material

- **Learn more**
 - [W3Schools](#)

 (https://www.w3schools.com/js/tryit.asp?filename=tryjs_validation_rangeOverflow)