

Web Storage and Cookies in JavaScript

Web storage and cookies are used to store data on the client side. JavaScript provides APIs for both web storage (local storage and session storage) and cookies.

Local Storage

Local storage allows you to store key-value pairs in the browser with no expiration date. This means the data persists even after the browser is closed and reopened.

Syntax

- **Set Item:** `localStorage.setItem(key, value)`
- **Get Item:** `localStorage.getItem(key)`
- **Remove Item:** `localStorage.removeItem(key)`
- **Clear Storage:** `localStorage.clear()`

Example

```
// Set item
localStorage.setItem("username", "john_doe");

// Get item
let username = localStorage.getItem("username");
console.log(username); // Output: john_doe

// Remove item
localStorage.removeItem("username");

// Clear storage
localStorage.clear();
```

Session Storage

Session storage is similar to local storage, but the data is cleared when the page session ends. A page session lasts as long as the browser is open, and survives over page reloads and restores.

Syntax

- **Set Item:** `sessionStorage.setItem(key, value)`
- **Get Item:** `sessionStorage.getItem(key)`
- **Remove Item:** `sessionStorage.removeItem(key)`
- **Clear Storage:** `sessionStorage.clear()`

Example

```
// Set item
sessionStorage.setItem('username', 'john_doe');

// Get item
let username = sessionStorage.getItem('username');
console.log(username); // Output: john_doe

// Remove item
sessionStorage.removeItem('username');

// Clear storage
sessionStorage.clear();
```
