

Local Storage Object in JS:

In JavaScript, the `localStorage` object is a built-in object that allows you to store key-value pairs of data on the client-side, which means that the data is stored in the browser and can be accessed even after the browser is closed. It is part of the Web Storage API and it is supported by most modern browsers.

The `localStorage` object has the following methods:

- `setItem(key, value)`: stores a key-value pair.
- `getItem(key)`: retrieves the value of a key.
- `removeItem(key)`: removes a key-value pair.
- `clear()`: removes all key-value pairs.

For example, the following code stores an item in local storage:

```
localStorage.setItem("username", "JohnDoe");
```

And this code retrieves the value of the item:

```
let username = localStorage.getItem("username");  
console.log(username); // Output: "JohnDoe"
```

It's important to note that the data stored in local storage has a maximum size of about 5-10 megabytes, depending on the browser, and that it's stored in plain text, so sensitive data should be encrypted before storing it in local storage.

Local storage is a useful tool for storing data on the client-side, and it's commonly used to store information such as user preferences, session data and application state. It can also be used to cache data so that it can be accessed quickly on future visits to the website.

Session Storage in JS:

In JavaScript, the `sessionStorage` object is a built-in object that allows you to store key-value pairs of data on the client-side, much like the `localStorage` object. However, the data stored in `sessionStorage` is only available for the duration of the browser

session, which means that the data is deleted when the browser is closed. It is also part of the Web Storage API and it is supported by most modern browsers.

The sessionStorage object has the same methods as the localStorage object:

- `setItem(key, value)`: stores a key-value pair.
- `getItem(key)`: retrieves the value of a key.
- `removeItem(key)`: removes a key-value pair.
- `clear()`: removes all key-value pairs.

For example, the following code stores an item in session storage:

```
sessionStorage.setItem("username", "JohnDoe");
```

And this code retrieves the value of the item:

```
let username = sessionStorage.getItem("username");  
console.log(username); // Output: "JohnDoe"
```

sessionStorage is a useful tool for storing data on the client-side, but it's not persistent like localStorage, it's useful for storing temporary data such as form input values and user preferences for the current session.

It's important to note that the data stored in sessionStorage also has a maximum size of about 5-10 megabytes, depending on the browser, and that it's stored in plain text, so sensitive data should be encrypted before storing it in sessionStorage.