

10.1 Web API Storage



underwater delivery system - answered by April Joy Ipac

- The **Web Storage API** is a simple syntax for storing and retrieving data in the browser.

```
localStorage.setItem("name", "John Doe");  
localStorage.getItem("name");
```

Method	Description	Sample code	Code explanation
<code>localStorage.setItem(name, value)</code>	<ul style="list-style-type: none">• Sets a key-value pair in the browser's local storage, allowing data to be stored and retrieved even after the browser is closed and reopened.	<pre>localStorage.setItem("username", "JohnDoe"); const username = localStorage.getItem("username"); console.log(username);</pre>	<ul style="list-style-type: none">• Stores the value <code>"JohnDoe"</code> with the key <code>"username"</code>• It then retrieves the value associated with the key <code>"username"</code> and log it to the console.

<code>localStorage.getItem(name)</code>	<ul style="list-style-type: none"> Retrieves the value associated with the specified key from the browser's local storage. 		
<code>sessionStorage.setItem(name, value)</code>	<ul style="list-style-type: none"> Sets a key-value pair in the current session's storage, allowing data to be stored and retrieved within the same browsing session. 	<pre>sessionStorage.setItem("theme", "dark"); const theme = sessionStorage.getItem("theme"); if (theme == "dark") { \$("body").css("background-color", "black"); \$("body").css("color", "white"); }</pre>	<ul style="list-style-type: none"> This code sets the theme of the browser to <code>"dark"</code> by storing it in the <code>sessionStorage</code>. If the theme is set to <code>"dark"</code>, it changes the background color of the body to black and the text color to white.
<code>sessionStorage.getItem(name)</code>	<ul style="list-style-type: none"> Retrieves the value associated with the specified key from the current session's storage. 		

Saving local data

- The `localStorage` object provides access to a local storage for a particular Web Site. It allows you to store, read, add, modify, and delete data items for that domain.

- The data is stored with no expiration date, and will not be deleted when the browser is closed.
- The data will be available for days, weeks, and years.

Storing data via the local storage

- The `localStorage.setItem()` method stores a data item in a storage.
- It takes a name and a value as parameters:

```
localStorage.setItem("name", "John Doe");
```

- The `localStorage.getItem()` method retrieves a data item from the storage.
- It takes a name as parameter:

```
localStorage.getItem("name");
```

- To check if an item is present in storage, you check if it is a null value.

```
if (localStorage.getItem("name") == null){  
    localStorage.setItem("name", "Daiben")  
}
```

- To remove an item from storage, use the `removeItem` method.

```
localStorage.removeItem("name")
```

- Alternatively, you can also completely clear the storage using the `clear` method.

```
localStorage.clear()
```

Saving session data

- The `sessionStorage` object is identical to the `localStorage` object.
- The difference is that the `sessionStorage` object stores data for one session.
- The data is deleted when the browser is closed.

```
sessionStorage.getItem("name");
```

Storing data via the session storage

- The `sessionStorage.setItem()` method stores a data item in a storage.
- It takes a name and a value as parameters:

```
sessionStorage.setItem("name", "John Doe");
```

- The `sessionStorage.getItem()` method retrieves a data item from the storage.
- It takes a name as parameter:

```
sessionStorage.getItem("name");
```

- To check if an item is present in storage, you check if it is a null value.

```
if (sessionStorage.getItem("name") == null){  
    sessionStorage.setItem("name", "Daiben")  
}
```

- To remove an item from storage, use the `removeItem` method.

```
sessionStorage.removeItem("name")
```

- Alternatively, you can also completely clear the storage using the `clear` method.

```
sessionStorage.clear()
```

Additional Material

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