JavaScript & Advanced Technologies

HTML5 Web storage

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What is Web storage?

❑ **Web storage, is a new APIS introduced in HTML 5, that includes: local storage and session storage.**

❑ **With web storage, web applications can store data locally within the user's browser.**

❑ **Web storage is per origin (per domain and protocol). All pages, from one origin, can store and access the same data.**

❑ **Supported on most browsers currently.**

❑ **HTML local storage provides two objects for storing data on the client:**

- **window.localStorage - stores data with no expiration date**
- **window.sessionStorage - stores data for one session (data is lost when the browser tab is closed)**

Why Web Storage is better than Cookies?

❑ **HTML Web storage, better than cookies.**

❑ **Web storage is more secure, and large amounts of data can be stored locally, without affecting website performance.**

❑ **Unlike cookies, the storage limit is far larger (at least 5MB) and information is never transferred to the server.**

❑ **Unlike cookies, Web storage not sending the data to server with each server calls, this will improve the site performance.**

Start using Web storage

❑ **Before using local storage, check browser support for localStorage and sessionStorage:**

```javascript
if(typeof(Storage) !== "undefined")
{
    // Code for localStorage/sessionStorage.
}
 else
{
    // Sorry! No Web Storage support..
}
```

Local storage Object

❑ **window.localStorage** - stores data with no expiration date
❑ **To store and retrieve data from local storage object:**

```javascript
//Store
localStorage.setItem("userName", "Ahmed");
//or
localStorage.userName = "Ahmed";

//Retrieve
var result= localStorage.getItem("userName");
//or
var result= localStorage.userName;

//Remove
localStorage.removeItem("userName");
```

Session storage Object

❑ **window.sessionStorage - sessionStorage object is equal to the localStorage object, except that it stores the data for only one session. The data is deleted when the user closes the specific browser tab.**

❑ **To store and retrieve data from session storage object:**

```javascript
//Store
sessionStorage.setItem("userName", "Ahmed");
//or
sessionStorage.lastname = "Ahmed";

//Retrieve
var result= sessionStorage.getItem("userName");
//or
var result= sessionStorage.userName;

//Remove
sessionStorage.removeItem("userName");
```

Example

☐ **Example to calc user clicks count:**

```javascript
if (localStorage.clickcount)
{
    localStorage.clickcount = Number(localStorage.clickcount) + 1;
}
else
{
    localStorage.clickcount = 1;
}

document.getElementById("result").innerHTML = "You have clicked the
button " + localStorage.clickcount + " time(s).";
```
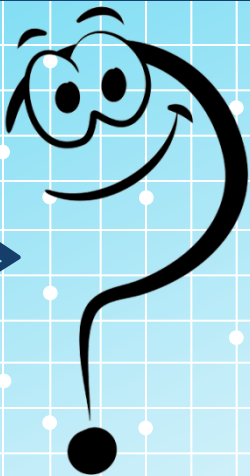
Self Study

- Indexed Database API
- Web SQL Database

<SCRIPT > </SCRIPT>

<script>document.writeln("Thank You!")</script>