

Cookies

JAVASCRIPT



JS

What are Cookies?

Have you ever noticed that when you visit a website, it remembers things about you? Like your username or the items in your shopping cart? That's because of cookies!

- Cookies are small pieces of data that websites store on your computer or mobile device.
- They are important in web development because they allow websites to remember information about the user, such as their preferences or login credentials.

How Cookies Works?

When a user sends a request to a server, the server treats each request as if it's from a new user.

- To recognize returning users, we add a cookie to the response from the server.
- The cookie is stored on the user's browser, and whenever they send a new request, the browser automatically adds the cookie to it.
- This allows the server to recognize the user and personalize their experience.

Setting Cookies

To **create a cookie** using JavaScript, you can use the **document.cookie** property.

Here is an **example** of setting a cookie:

```
document.cookie = "username=Code Clash";
```

You can also add an **expiry date** (in UTC time). and With a **path parameter** and you can also tell the browser what **path the cookie belongs** to.

```
document.cookie = "username=Code; expires=Thu, 30 Apr 2024 12:00:00 UTC; path="/";
```

Reading Cookies

To **read** the value of a **cookie** using JavaScript, you can **use** the **document.cookie** property again.

Here is an **example of reading** a cookie:

```
let allcookies = document.cookie;  
console.log("All Cookies : " + allcookies);
```

Here you will **get all cookies** in **one string** much like: `cookie1=value; cookie2=value; .`

You can use **strings split()** function to **break** a string into **key** and **values**.

Deleting Cookies

To **delete a cookie** using JavaScript, you can set the **expiration date to a past date**, which will cause the browser to **remove the cookie** from the user's device.

Here is an **example of deleting** a cookie:

```
document.cookie = "username=; expires=Thu, 01 Jan 1970 00:00:00 UTC;"
```

Best Practices

When using **cookies in web development**, it is important to follow **best practices** to ensure that the **user's privacy and security** are protected.

Here are some tips:

- **Avoid storing sensitive information** in cookies, such as passwords or credit card numbers.
- Use **secure** and **HTTP-only cookies** to prevent cross-site scripting (**XSS**) **attacks** and other **security vulnerabilities**.
- Set **reasonable expiration** dates for cookies to ensure that they are not stored on the user's device indefinitely.
- Use cookies sparingly and only when necessary, to **minimize the amount** of data stored on the **user's device**.

Conclusion

- Cookies are a powerful tool in web development that can make websites more personalized and convenient to use.
- By **learning** how to **set, read, and delete** cookies in JavaScript, you can start creating **websites** that **remember information about users** and improve their experience.
- Remember to use **cookies responsibly** and **follow best practices** to protect users' privacy and security.
- As always, I **hope you enjoyed** the post and **learned something** new.
- If you have **any queries** then **let me know** in the **comment box**.