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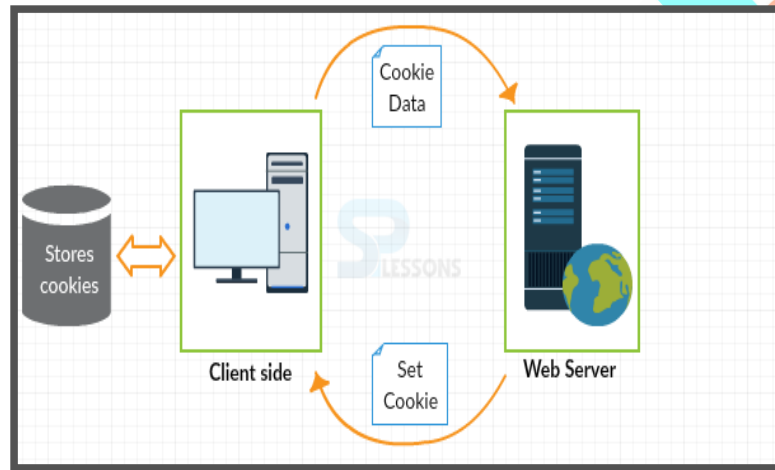
Javascript Cookies

Document Object Model DOM and Validations

Module 4 - Javascript Cookies

Cookie

- A cookie is a name-value pair stored in the browser.
- Sent with every HTTP request to the same domain.
- Limited in size (~4 KB per cookie).
- Can have expiry, path, domain, and secure attributes.



Importance of Cookies?

- Store session data (e.g., login session)
- Remember user preferences (e.g., theme, language)
- Track user behavior (analytics and ads)
- Maintain shopping cart data (for guest users)
- Persist data across multiple pages
- Perform A/B testing and personalization
- Identify returning users
- Manage authentication tokens

Syntax Of Cookie - document.cookie = "name=value";

Cookie Attributes

- name=value - The actual data stored in the cookie.
- expires - Sets the expiration date/time (in UTC). After this, the cookie is deleted.
- max-age - Sets cookie lifetime in seconds (alternative to expires).

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Javascript Cookies

- path - Defines the URL path where the cookie is valid (e.g., /, /admin).
- domain - Specifies which domain can access the cookie.
- secure - Cookie is sent only over HTTPS.
- HttpOnly - Not accessible via JavaScript (for security, set by server).
- SameSite - Controls cross-site request behavior (Strict, Lax, or None).

Create Cookie with JavaScript

Use Case	Code Example
Basic cookie	document.cookie = "username=John";
Cookie with expiry	document.cookie = "username=John; expires=Fri, 30 Aug 2025 12:00:00 UTC";
Cookie with path	document.cookie = "username=John; path=/";
Cookie with domain	document.cookie = "username=John; domain=example.com";
Cookie with Secure flag	document.cookie = "username=John; Secure";
Cookie with SameSite	document.cookie = "username=John; SameSite=Lax";
Full cookie with all attrs	document.cookie = "username=John; expires=Fri, 30 Aug 2025 12:00:00 UTC; path=/; domain=example.com; Secure; SameSite=Lax";

```

<<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>JavaScript Cookie Demo</title>
</head>
<body>
  <h1>JavaScript Cookie Example</h1>
  <button onclick="setCookie('username', 'JohnDoe', 7)">Set Cookie</button>
  <button onclick="alert('username: ' + getCookie('username'))">Get
  Cookie</button>
  <button onclick="deleteCookie('username')">Delete Cookie</button>
  <button onclick="alert('All Cookies: ' + document.cookie)">Show All
  Cookies</button>
  <script>
    // Set a cookie
    function setCookie(name, value, days) {
      let expires = "";
  
```

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Javascript Cookies

```

if (days) {
  const date = new Date();
  date.setTime(date.getTime() + (days * 24 * 60 * 60 * 1000));
  expires = "; expires=" + date.toUTCString();
}
document.cookie = name + "=" + encodeURIComponent(value) + expires + ";
path=/";
}

// Get a cookie
function getCookie(name) {
  const nameEQ = name + "=";
  const cookies = document.cookie.split("; ");
  for (let cookie of cookies) {
    if (cookie.indexOf(nameEQ) === 0) {
      return decodeURIComponent(cookie.substring(nameEQ.length));
    }
  }
  return null;
}

// Delete a cookie
function deleteCookie(name) {
  document.cookie = name + "="; expires=Thu, 01 Jan 1970 00:00:00 UTC;
  path=/";
}
</script>
</body>
</html>

```

Explanation of this code:

- You get 4 buttons:
- Set Cookie: Sets a cookie named username with value JohnDoe.
- Get Cookie: Retrieves and shows the username cookie.
- Delete Cookie: Deletes the username cookie.
- Show All Cookies: Displays all cookies visible to the page.