- **localStorage**
- **sessionStorage**
- **cookies**

localStorage

- persistent in browser memory.
- accessible with JavaScript *only*.
- **not automatically sent to the server** during an HTTP request.

localStorage

```
localStorage.setItem('greeting', 'Hello World!');
```

```
localStorage.removeItem('greeting');
```

sessionStorage

- deleted once the browser tab or window is closed.
- accessible with JavaScript *only*.
- **not automatically sent to the server** during an HTTP request.

sessionStorage

```
sessionStorage.setItem('greeting', 'Hello World!');
```

```
sessionStorage.removeItem('greeting');
```

cookies 🍪

- persistent in browser memory.
- inaccessible with JavaScript (with the **HttpOnly** flag).
- **automatically sent to the server** during an HTTP request.

Authentication data stored with **localStorage** or **sessionStorage** are vulnerable to <u>cross-site scripting (XSS) attacks</u>.

cookies when used with the **<u>HttpOnly</u>** flag are not accessible with JavaScript and are thus immune to XSS attacks.

cookies when used with the **<u>Secure</u>** flag ensure cookies can only be sent securely through HTTPS.

Cookies *are* vulnerable to cross-site request forgery (CSRF) attacks.

Flags to help mitigate CSRF:

- **SameSite**
- **X-CSRF-TOKEN**