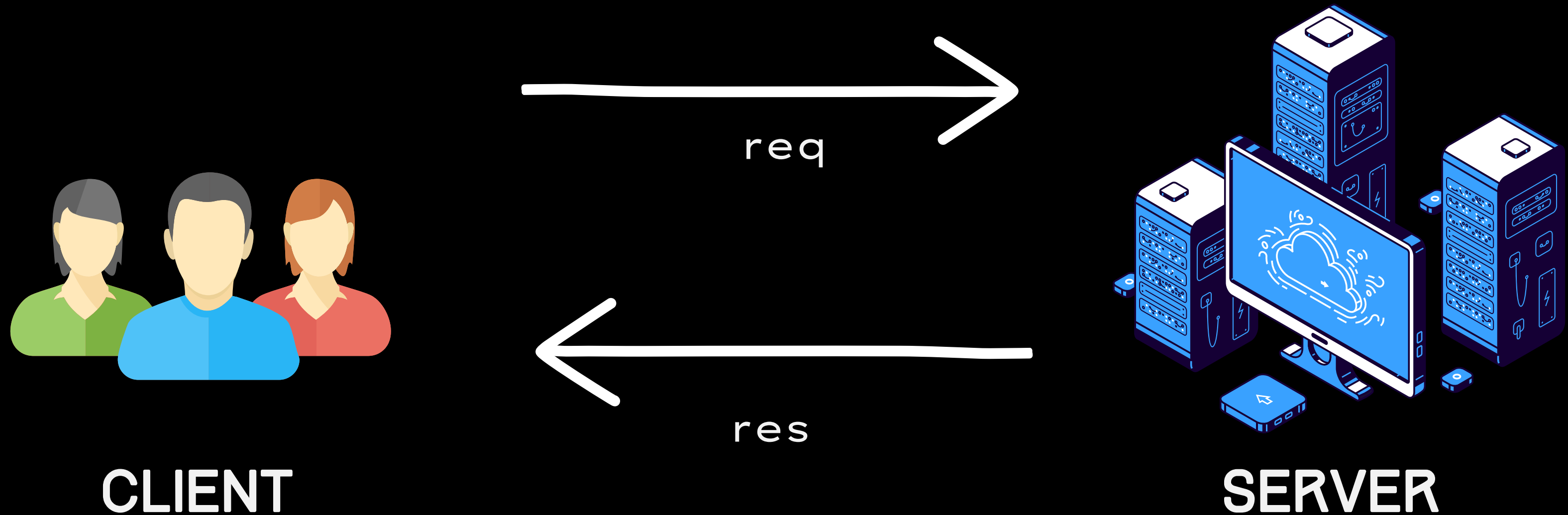We Use Cookies

Accept   Reject

HTTP COOKIES

WHAT ARE COOKIES?

- A small piece of data which server sends to the browser with a user request.

- Browser may store these cookies in its local storage.

CLIENT-SERVER ARCHITECTURE

req

res

CLIENT

SERVER

USE OF COOKIES

- Session management
- Personalization
- Tracking
- Authentication

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JAVASCRIPT COOKIES

Cookies can be created in Javascript in two types

JS

⌃ Client-side Creation

⌃ Server-side Creation

BASIC JAVASCRIPT

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DECLARING A FUNCTION

```javascript
const maxi = (a, b) => {
    if (a > b)
        return "a is bigger";
    else
        return "b is smaller";
}
console.log((3,5));
```

ADDING SCRIPT TAG

```html
<script>
    function add(a, b) {
        console.log(a + b);
    }
    add(2, 3);
</script>
```

CLIENT-SIDE

- Cookies are saved in name-value pair
  eg: name="JohnDoe"

```javascript
let username = 'wlug'
function setCookie(name, value, age) {
    let maxAge = "max-age="+ age;
    document.cookie = name + "=" + value + ";" + maxAge +
};path=/";
setCookie(username,2,5)
```

SERVER SIDE

- Cookies are set by the server using set-cookie header

- They are also called session cookies

```javascript
const express = require("express")
const app = express()

app.get("/", (req, res) => {
    res.set("set-cookie", ["serverCookie=2003"]);
    res.sendFile(`${__dirname}/index.html`);
})


app.listen(3000, () => {
    console.log("Listening on port 3000");
});
```
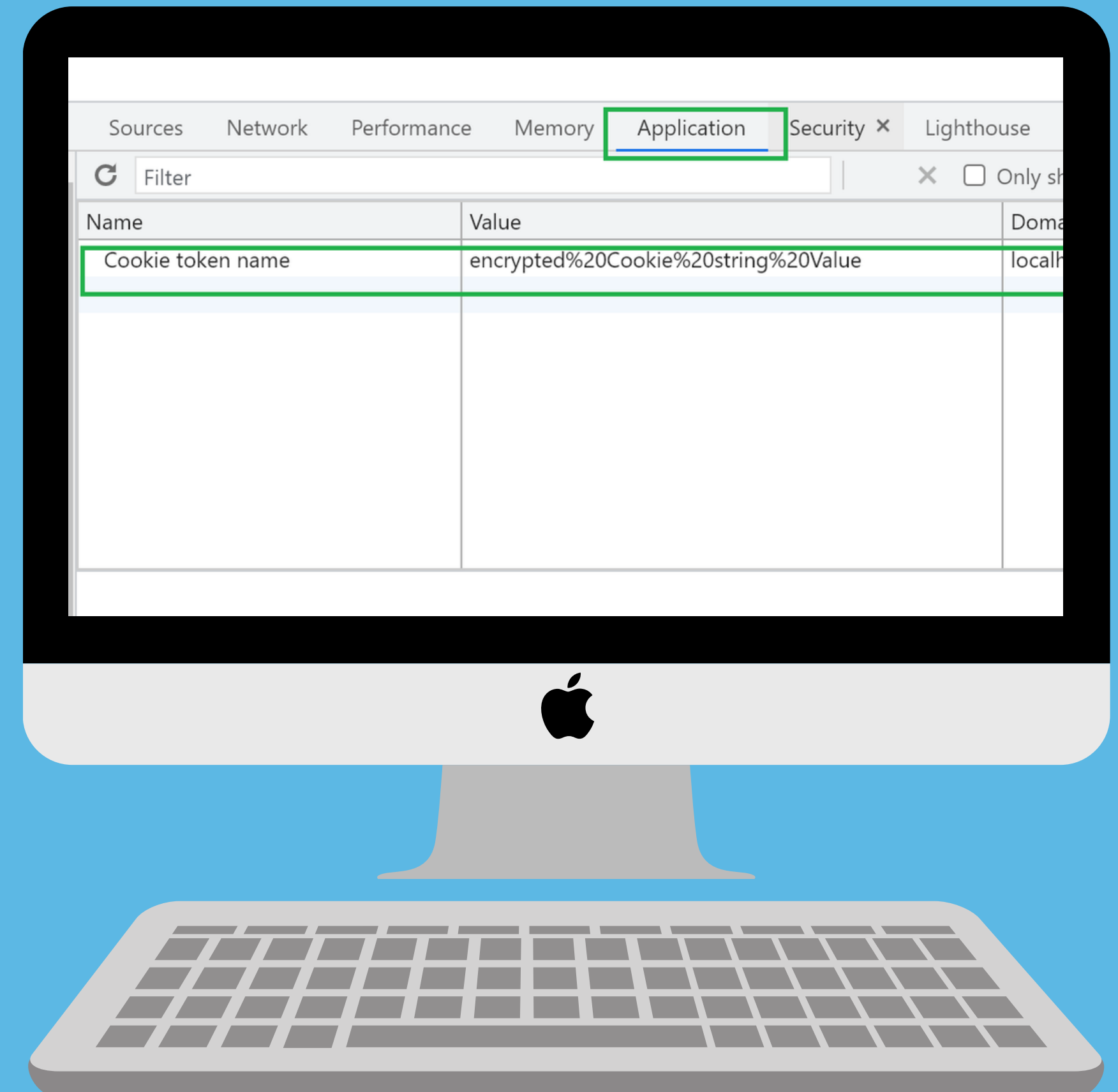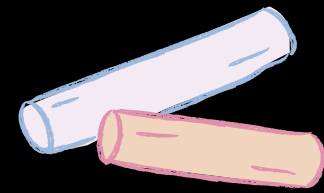
COOKIE TYPES

- Session Cookies
- Permanent Cookies
- Http Only Cookies
- Secure Cookies
- Third-Party Cookies

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COOKIE PROPERTIES

⌃ Sent with every request

⌃ Cookie Scope : Domain and Path

⌃ Expires/Max-Age

⌃ Secure

⌃ Same Site

Sources	Network	Performance	Memory	Application	Security ✕	Lighthouse

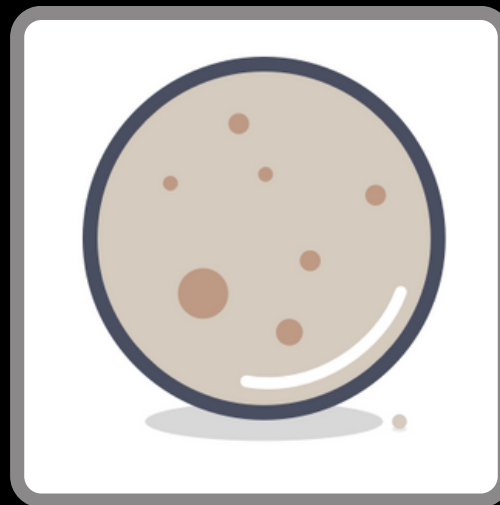| Name	Value	Doma
Cookie token name	encrypted%20Cookie%20string%20Value	localh

El Blackboard

SAME SITE

STRICT

Restricts cookie sharing altogether

LAX

Allows cookie sharing on same domain

NONE

Allows Everything

COOKIE SECURITY

- Session Hijacking

- Cross Site Request Forgery

- Cross Site Scripting

New Tab

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THANK YOU