

An abstract graphic on the left side of the slide, consisting of a network of thin, light-blue lines and small circles, resembling a circuit board or a data network. The lines are vertical and horizontal, with some diagonal connections, and the circles are placed at various points along these lines.

WEB STORAGE

WEB STORAGE

- The three main ways to store data inside of a browser:
 - Local storage
 - Session storage
 - Cookies
- Similarities between them:
 - Data stored on the user's actual browser:
 - Google Chrome: data will be stored in their Google Chrome
 - Firefox: data will be stored in their Firefox
 - Saved data are browser dependent:
 - Data saved on Google Chrome browser will not be available on Firefox
 - Single user:
 - If another user log in the computer, the stored data from previous user will not be available

SIMILARITIES AND DIFFERENCES

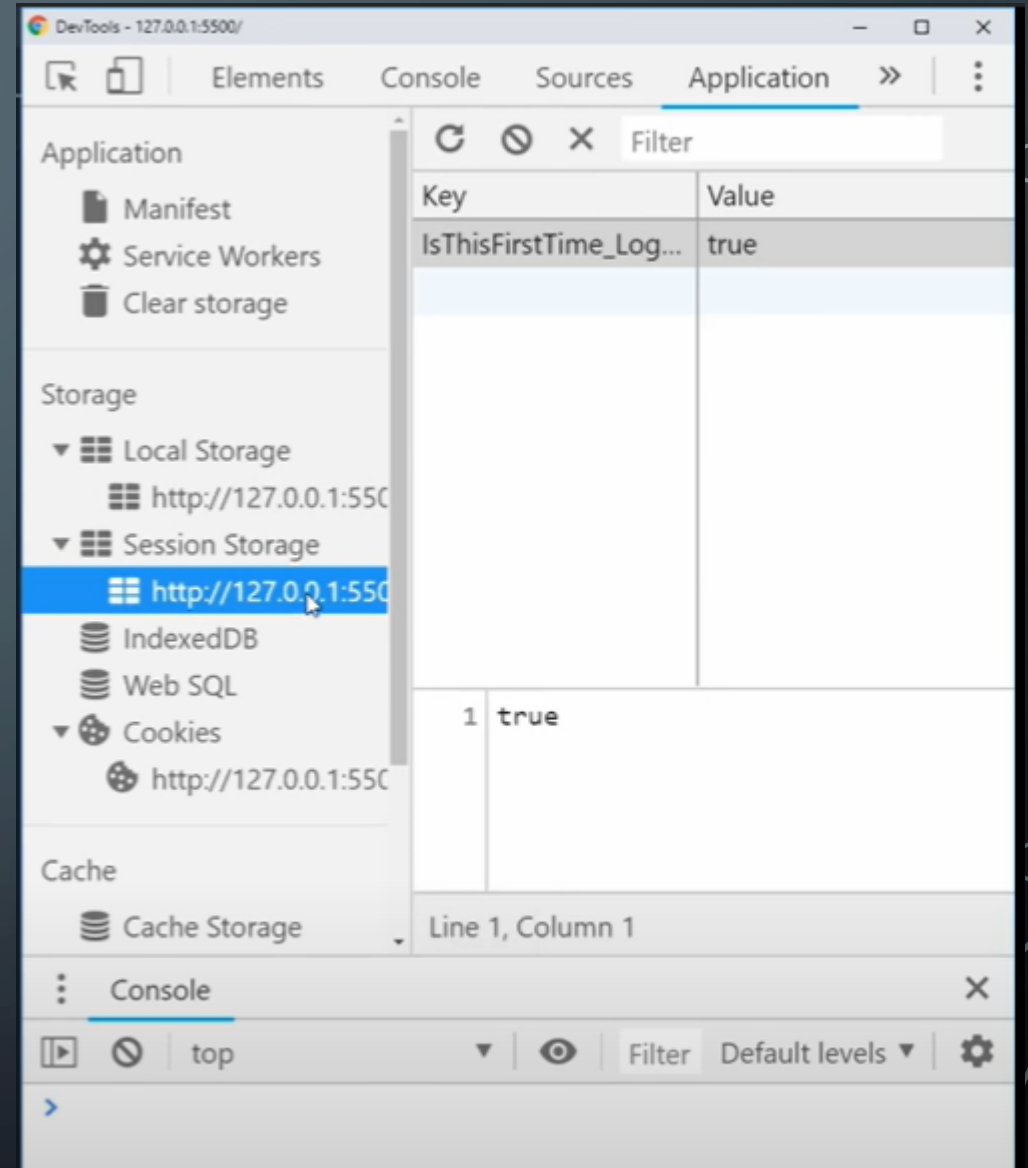
	Cookies	Local Storage	Session Storage
Capacity	4kb	10mb	5mb
Browsers	HTML4 / HTML 5	HTML 5	HTML 5
Accessible from	Any window	Any window	Same tab
Expires	Manually set	Never	On tab close
Storage Location	Browser and server	Browser only	Browser only
Sent with requests	Yes	No	No

WEB STORAGE

- Local Storage and Session Storages → very similar in terms of functionality
- Cookies → besides storing data in the browser, it is also sent along when user requests something from the server
 - It will slow down your request to the server and the requests coming back from the server
 - That's why cookies are small in size
- Cookies should be used only if you really need to send some info to the server, otherwise use Local Storage / Session Storage

BROWSER APPLICATION TOOL

- You can check what is on each storage by inspecting a page >> Application >> Storage



The background is a dark blue gradient. In the corners, there are white line-art illustrations of circuit boards or neural networks, with lines connecting to small circles.

localStorage and sessionStorage

localStorage and sessionStorage

- localStorage Functions:

- clear()
- getItem(key)
- key(index)
- length
- removeItem(key)
- setItem(key,value)

- sessionStorage Functions:

- clear()
- getItem(key)
- key(index)
- length
- removeItem(key)
- setItem(key,value)

- Difference between localStorage and sessionStorage:

- localStorage: If you close the browser or get another TAB (session) the stored data will be available
- sessionStorage:
 - if you close the browser the data will be deleted
 - If you open the same page in another TAB the stored data will not be available

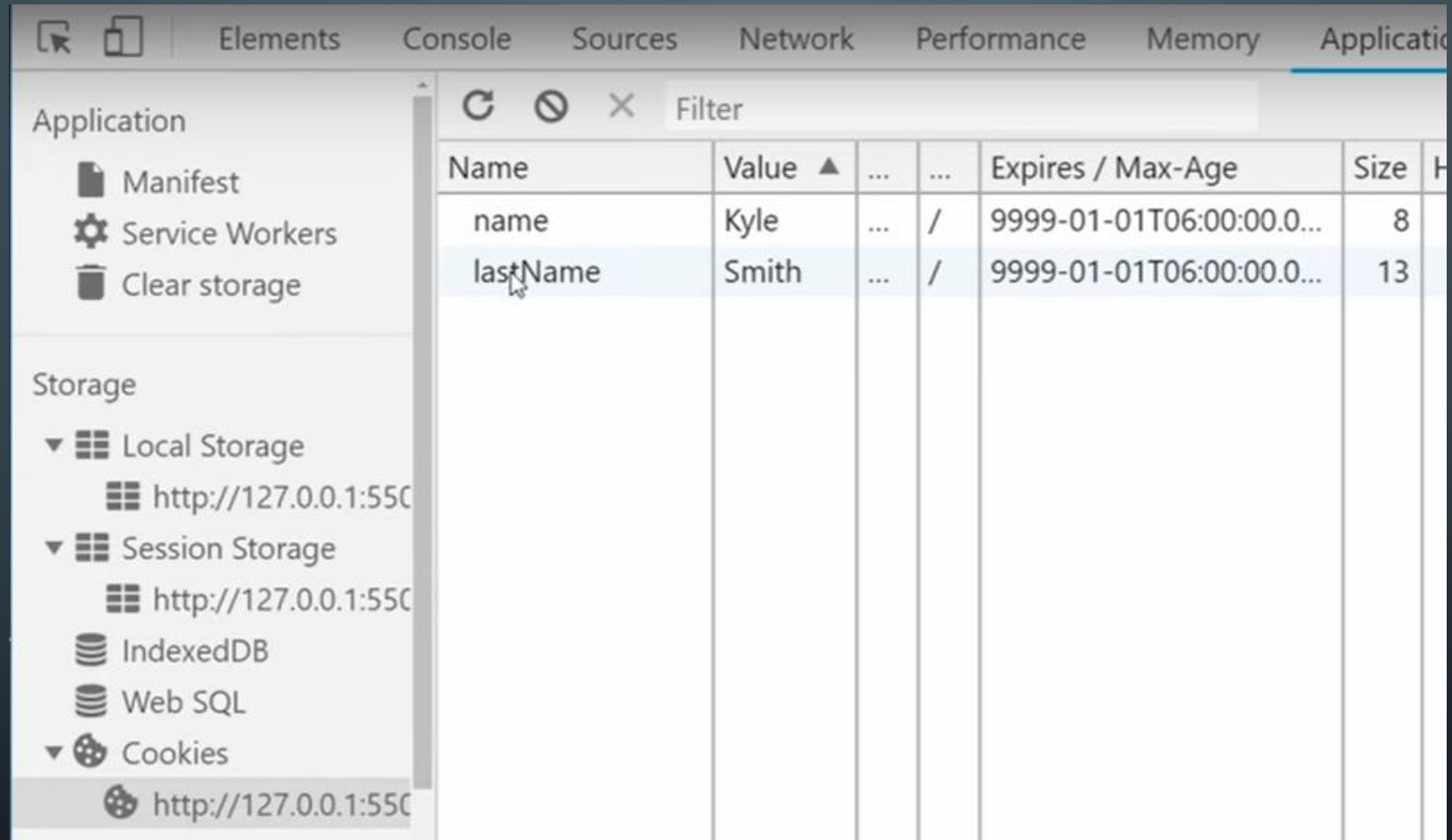
The background is a dark blue gradient with a large, faint, light blue circle in the center. In the four corners, there are white line art designs resembling circuit boards or neural networks, with lines and small circles connecting them.

Cookies

COOKIES

- To create a cookie:
 - `document.cookie = "key=value"`
 - Example: `document.cookie = 'name=Kyle'`
- To append more data
 - `document.cookie = "key=value"`
 - same method, it will not erase previous data
 - Example: `document.cookie = 'lastName=Smith'`
- Setting cookie expiration date:
 - `Document.cookie = "lastName=Smith; expires=" + new Date(9999,0,1).toUTCString()`

COOKIES



The screenshot shows a web browser's developer tools interface, specifically the 'Application' tab. The left sidebar is divided into 'Application' and 'Storage' sections. Under 'Application', there are icons for 'Manifest', 'Service Workers', and 'Clear storage'. Under 'Storage', there are expandable sections for 'Local Storage', 'Session Storage', 'IndexedDB', 'Web SQL', and 'Cookies'. The 'Cookies' section is expanded, showing a list of cookies for the URL 'http://127.0.0.1:5500'. The main pane displays a table of cookies with columns: Name, Value, Expires / Max-Age, Size, and Host. Two cookies are listed: 'name' with value 'Kyle' and 'lastName' with value 'Smith'. Both cookies have an expiration date of '9999-01-01T06:00:00.0...' and a size of 8 and 13 bytes respectively.

Name	Value	Expires / Max-Age	Size	Host
name	Kyle	9999-01-01T06:00:00.0...	8	...
lastName	Smith	9999-01-01T06:00:00.0...	13	...

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SEE EXAMPLE CODES