Web Storage

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JavaScript

- Window object
- Web storage
  - Session storage
  - Local Storage

Window object

- The global object of JavaScript in the browser is the window object. It means that all variables and functions declared globally with the var keyword become the properties and methods of the window object

- The window object represent an open window in a browser

- In case of multi tab browser, a window object represents a single tab

Web Storage: Web Storage allows to save data in the browser

There are two ways to store data in the web browser

1. Session Storage:

- Stores data for one session that is data is lost when the browser tab is closed
- Even with page refresh data survives that is data will not lost or cleared

2. Local Storage:

- Data stored in local storage will not expire. It will remain even after browser restart and survives OS reboot too
- Data is shared between all tabs.

Web Storage Methods

Both the storage objects provide same methods and properties for creating, updating and removing entries
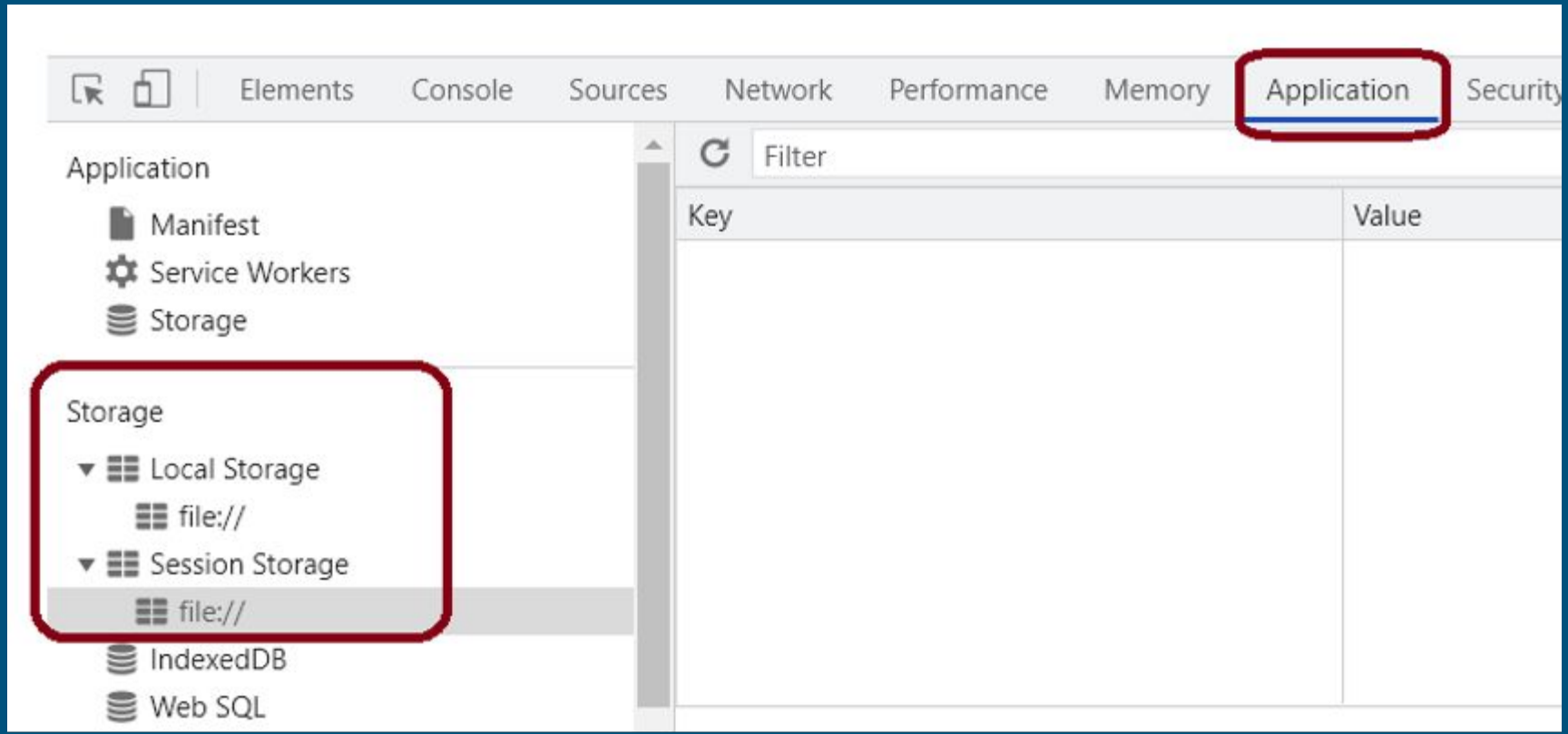
- setItem(key, value) − store item as key/value pair.
- getItem(key) − get item's value by key.
- removeItem(key) − remove item using key.
- key(index) − get the Item key based on index.
- length − returns total number of stored items.
- clear() − clear or delete everything

Note: This is similar to map collection. But here in web storage both 'key' and 'value' should be string. If we specify any other type, like a number, or an object, it will automatically gets converted to string

Step to Locate Web Storage in Web Browser

Step 1.In google chrome, Mouse right click button -> select 'inspect'
Step 2. Select tab 'Application' from chrome developer tool

Web session storage

```
webSessionStorage.html

<!DOCTYPE html>
<html>
<body>
    <h2>Web Storage Demo</h2>
    <h3>Session Storage</h3>
</body>
<script>
   console.log("Session Storage");
   window.sessionStorage.setItem("firstName", "Sachin");
   window.sessionStorage.setItem("lastName", "Tendulkar");
   window.sessionStorage.setItem("country", "India");
   window.sessionStorage.setItem("runs", "35000");
   console.log(window.sessionStorage.length);
   console.log(window.sessionStorage.getItem("firstName"));
   console.log(window.sessionStorage.getItem("country"));
   console.log(window.sessionStorage.key("lastName"));
   window.sessionStorage.removeItem("runs");
   // window.sessionStorage.clear();
   console.log("Session Storage");
</script>
</html>
```

Web Local storage

webLocalStorage.html

```html
<!DOCTYPE html>
<html>
<body>
    <h2>Web Storage Demo</h2>
    <h3>Local Storage</h3>
</body>
<script>
   console.log("Local Storage");
   window.localStorage.setItem("firstName", "Sachin");
   window.localStorage.setItem("lastName", "Tendulkar");
   window.localStorage.setItem("country", "India");
   window.localStorage.setItem("runs", "35000");
   console.log(window.localStorage.length);
   console.log(window.localStorage.getItem("firstName"));
   console.log(window.localStorage.getItem("country"));
   console.log(window.localStorage.key("lastName"));
   window.localStorage.removeItem("runs");
   // window.localStorage.clear();
   console.log("Local Storage");
</script>
</html>
```

Assignment - File→ 11_WebLocalStorage.html

In Local storage add the data in format like

- Key → name, value → Your Full Name

- Key → city, value → Your City Name

- Key → pinCode, value → Your Pin code

- Key → district, value → Your District Name

Remove the item → city