LAB-04

BROWSER OBJECT MODEL(BOM)

OBJECTIVE:

To learn what is BOM and the APIs is available for manipulating them .

Lab TASK CODE:

- 1. Copy the Login Form created in Lab#1 and update its OK button to
 - a. Create a cookie if Remember Me is set and save Student Id and Name
 - b. Show wait image on Login Form OK button click
 - c. Redirect to the Student Profile page after 2 seconds and remove the wait image

Code:

a) Cookies Remember

b) Wait Image

Output:



| Usernar | me | | | | |
|---------|--------------------|-------|-------|--------------------|------|
| admir | n | | | | |
| Passwoi | rd | | | | |
| •••• | | | | | |
| | | Login | | | |
| ✓ Rem | lember me | | | | |
| | | Cance | i e | | |
| | | | F | orgot <u>passw</u> | ord? |
| 3 | <u>192.168.1.1</u> | admin | ••••• | 0 | : |
| 3 | 192.168.8.1 | admin | ••••• | • | : |
| | | | | | |
| | | | | | |



Syed University of Engineering and Technology is a private research university located in the urban area of Karachi, Sindh, Pakistan.

The university is honored in the name of notable 19th-century Indian Muslim reformer and philosopher, Sir Syed Almad Khan

SSUET University Home Page

SSUET University Scholarship Notice Page

SSUET University News and Events Page Calandar

| Course ID | Course Name | Credit Hours | Year Taken | | | | |
|---|-------------------------------------|--------------|------------|--|--|--|--|
| SWE314L 203 | ARTIFICIAL INTELLIGENCE | 3+1 | 2021 | | | | |
| SWE312T - 2190 | SOFTWARE CONSTRUCTION & DEVELOPMENT | 3+1 | 2021 | | | | |
| SWE209L - 1483 | INTRODUCTION TO DATABASE SYSTEMS | 3+0 | 2020 | | | | |
| SWE204L - 1837 | OPERATING SYSTEMS | 3+0 | 2020 | | | | |
| Add New Course Delete Course Ulydole Course | | | | | | | |

NAME: FARAZ AHMED (2020-SE-252) SEC: E

HOOME TASK CODE:

- 2. Update the Student Profile page
 - a. If cookie is present
 - i. Retrieve the cookie and show student Name on top-right of the page
 - ii. Set the background page color to be light green, otherwise light gray
 - b. Add a new button alongside other buttons under the table called *Remove All New* for removing all the newly created courses (rows).
 - c. Create a *ul* list and using *window.history* API, find all the previous URLs visited and list them down using *li* items
 - i. If the URL of each history item contains the text Lab#2, highlight using green color, otherwise blue

Code:

a) Cookies Present:

```
const d = new Date();
    d.setTime(d.getTime() + (exdays * 24 * 60 * 60 * 1000));
    let expires = "expires="+d.toUTCString();
    document.cookie = cname + "=" + cvalue + ";" + expires + ";path=/";
}

function getCookie(cname) {
    let name = cname + "=";
    let ca = document.cookie.split(';');
    for(let i = 0; i < ca.length; i++) {
        let c = ca[i];
        while (c.charAt(0) == ' ') {
            c = c.substring(1);
        }
        if (c.indexOf(name) == 0) {
            return c.substring(name.length, c.length);
        }
    }
    return "";
}

function checkCookie() {
    let user = getCookie("username");
    if (user != "") {
        alert("Welcome again " + user);
        } else {
        user = prompt("Please enter your name:", "");
        if (user != "" && user != null) {
            setCookie("username", user, 365);
        }
}

Je/script</pre>
```

b)Remove All Courses:

```
<script>describe('clearArray()', () => {
    test('clear regular array', () => {
        const array = [1, 2, 3, 4, 5];
        clearArray(array);
        expect(array.length).toEqual(0);
        expect(array[0]).toEqual(undefined);
        expect(array[4]).toEqual(undefined);
    });

test('clear array that contains undefined and null', () => {
        const array = [1, undefined, 3, null, 5];
        clearArray(array);
        expect(array.length).toEqual(0);
        expect(array[0]).toEqual(undefined);
        expect(array[4]).toEqual(undefined);
    });

});
```

b) Windows History:

```
<script>
function goBack() {
    window.history.back()
}
</script>
</script>
</script>
</script>
```

Output:

Aseef Ahmed

Retrieve From Cookies

Syed University of Engineering and Technology is a private research university located in the urban area of Karachi, Sindh, Pakistan.

The university is honored in the name of notable 19th-century Indian Muslim reformer and philosopher, Sir Syed Ahmad Khan

SSUET University Home Page

SSUET University Scholarship Notice Page

SSUET University News and Events Page Calandar

Course ID Course Name Credit Hours Year Taken

Add New Course Delete Course Update Course Remove All New Courses



