

## Experiment: 8

**AIM:** Develop a webpage for creating session and persistent cookies.

### Theory:

#### What are Cookies?

A cookie is a piece of data that is stored on your computer to be accessed by your browser. You also might have enjoyed the benefits of cookies knowingly or unknowingly. Cookies are data, stored in small text files, on your computer.

#### How It Works?

Your server sends some data to the visitor's browser in the form of a cookie. The browser may accept the cookie. If it does, it is stored as a plain text record on the visitor's hard drive. Now, when the visitor arrives at another page on your site, the browser sends the same cookie to the server for retrieval. Once retrieved, your server knows/remembers what was stored earlier.

Cookies are a plain text data record of 5 variable-length fields –

**Expires** – The date the cookie will expire. If this is blank, the cookie will expire when the visitor quits the browser.

**Domain** – The domain name of your site.

**Path** – The path to the directory or web page that set the cookie. This may be blank if you want to retrieve the cookie from any directory or page.

**Secure** – If this field contains the word "secure", then the cookie may only be retrieved with a secure server. If this field is blank, no such restriction exists.

**Name=Value** – Cookies are set and retrieved in the form of key-value pairs

#### Create a Cookie with JavaScript

You can create cookies using document.cookie property.

**document.cookie = "cookieName=cookieValue"**

You can even add expiry date to your cookie so that the particular cookie will be removed from the computer on the specified date. The expiry date should be set in the UTC/GMT format. If you do not set the expiry date, the cookie will be removed when the user closes the browser.

**document.cookie = "cookieName=cookieValue; expires= Thu, 21 Aug 2014 20:00:00 UTC"**

#### Storing Cookies

**document.cookie = "username=John Doe; path="/;**

## Read a Cookie with JavaScript

You can access the cookie like this which will return all the cookies saved for the current domain

```
var x = document.cookie
```

## Setting Cookies Expiry Date

You can extend the life of a cookie beyond the current browser session by setting an expiration date and saving the expiry date within the cookie. This can be done by setting the 'expires' attribute to a date and time.

```
document.cookie = "username=John Doe; expires=Thu, 18 Dec 2013 12:00:00 UTC; path=/";
```

## Delete a Cookie

You don't have to specify a cookie value when you delete a cookie.

```
document.cookie = "username=; expires=Thu, 01 Jan 1970 00:00:00 UTC; path=/";
```

## Script to set and get cookies:

```
<html>
  <body>
    <h1>cookies</h1>
    <form action="" name="myform" method="post">
      Name:<input type="text" name="name"><br><br>
      Email:<input type="email" name="email"><br><br>
      Language:<input type="text" name="language"><br><br>
      <input type="button" value="setcookies" name="set" onclick="setcookies()">
      <input type="button" value="getcookies" name="get" onclick="getcookies()">
    </form>
  </body>
</html>
<script>
  function setcookies()
  {
    document.cookie="name=" + document.myform.name.value+"; expires=Thu, 28 Jan
2024 00:00:00 UTC";
    document.cookie="email=" + document.myform.email.value+"; expires=Thu, 28 Jan
2024 00:00:00 UTC";
    document.cookie="language=" + document.myform.language.value+"; expires=Thu,
28 Jan 2024 00:00:00 UTC";
  }
  //alert(document.cookie);
  //username=neha;email=123@gmail.com;language=english
  function getcookies()
  {
    var cookiesarray=document.cookie.split(";");
    for(var i=0;i<cookiesarray.length;i++)
    {
      var valuearray=cookiesarray[i].split("=");
      if(valuearray[0].trim()=='name')
```

```

        {
            document.myform.name.value=valuearray[1];
        }
        else if(valuearray[0].trim() =='email')
        {
            document.myform.email.value=valuearray[1];
        }
        else if(valuearray[0].trim() =='language')
        {
            document.myform.language.value=valuearray[1];
        }
    }
}
</script>
</body>
</html>

```

### **Delete a cookie:**

#### **Set a cookie**

```

<html>
<body>
    <h1>cookies</h1>
    <script>
        document.cookie="adderss=borivali ; expires=Thu, 28 Jan 2024 00:00:00 UTC";
    </script>
</body>
</html>

```

#### **Delete cookie**

##### **Method 1:-setting past date**

```

<script>
    document.cookie="adderss=borivali ; expires=Thu, 28 Jan 2021 00:00:00 UTC";
</script>

```

##### **Method 2:-setting an empty string**

```

<script>
    document.cookie="adderss= ; expires=Thu, 28 Jan 2021 00:00:00 UTC";
</script>

```

**Note:Draw the output**

### **Conclusion:**