What are Cookies?

Cookies are data, stored in small text files, on your computer.

When a web server has sent a web page to a browser, the connection is shut down, and the server forgets everything about the user.

Cookies were invented to solve the problem "how to remember information about the user":

- When a user visits a web page, his/her name can be stored in a cookie.
- Next time the user visits the page, the cookie "remembers" his/her name.

A session in JavaScript allows you to store and maintain data for a particular user as they navigate through your website or web application.

Here's a simplified explanation of how sessions work:

- ❖ When a user visits your website, a session is created for that user on the server. The server generates a unique identifier for the session, often called a session ID.

- ❖ This session ID is sent back to the user's browser and stored as a cookie (client-side) or included in the URL for subsequent requests.

- ❖ On each request, the browser sends the session ID back to the server.

- ❖ The server uses the session ID to retrieve the corresponding session data, which is stored on the server-side.

- ❖ You can store and retrieve information in the session data as key-value pairs. For example, you might store the user's name, email, or other relevant details.

The session data can be accessed and modified during the user's session as needed. For example, you can update the user's name if they change it or retrieve their email for verification purposes.

When the user leaves your website or their session expires (usually after a period of inactivity), the session data is typically cleared or deleted.

```
<script ...>

   JavaScript code

</script>
```

The script tag takes two important attributes –

- **Language** –This attribute specifies what scripting language you are using. Typically, its value will be javascript. Although recent versions of HTML (and XHTML, its successor) have phased out the use of this attribute.
- **Type** –This attribute is what is now recommended to indicate the scripting language in use and its value should be set to "text/javascript". JavaScript has become default lannguage in HTML5, and modern browsers, so now adding *type* is not required.

```
<script language = "javascript" type = "text/javascript">

   JavaScript code

</script>
```

```
<html>

<head>

  <title> Your first JavaScript program </title>

<head>

<body>

  <script language = "javascript" type = "text/javascript">

    document.write("Hello World!")

  </script>

</body>

</html>
```