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#### **Department of Computer Engineering**

**Date of submission: 28 / 03 / 2025** 

Batch: A1 Roll No.: 16010123012

Div: A

Student Name: Aaryan Sharma

Experiment No: 6 Staff In-charge:

TITLE: Demonstrate the use of Cookies and Sessions in PHP.

**AIM:** To Understand the Difference between cookies & sessions.

To Understand how to create & destroy session /Cookies variables.

#### **Expected Outcome of Experiment:**

The expected outcomes aim to understand the differences between cookies and session with respect to storage, persistence, data accessibility, scope and security.

Books/ Journals/ Websites referred:

Steve Prettyman, "Learn PHP 8 Using MySQL, JavaScript, CSS3, and HTML5", Apress 2nd / 2020 edition.

- **Problem Statement:** Design and implement an application to demonstrate HTML form integration with PHP script for experiment 1 to
  - **1.** Create, modify with timer and delete cookies for a user.
  - a. A cookie is created with the **setcookie()** function.

Syntax: setcookie(name, value, expire, path, domain, secure, httponly);

bool setcookie (string \$name [, string \$value [, int \$expire = 0 [, string \$path [, string \$domain [, bool \$secure = false [, bool \$httponly = false]]]]])

e.g. setcookie(\$cookie\_name, \$cookie\_value, time() + (86400 \* 30), "/");

b. Retrieve the value of the cookie "user" (using the global variable **\$\_COOKIE**) and also use the **isset**() function to find out if the cookie is set.

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- c. modify the user value= other user with **setcookie**() function
- d. delete the Cookie with the setcookie() function with an expiration date in the past
- e.g. setcookie ("CookieName", "", time() -3600);
- 2. Handle PHP session (which is used to store and pass information from one page to another temporarily (until user closes the website))
  - a. Start PHP Session, get session variable values, modify session variable, destroy PHP session.
  - **session\_start()** function : A session is started with the session\_start() function. Session variables are set with the PHP global variable: \$\_SESSION. Get session variable values, modify session variable with \$\_SESSION.
  - b. To remove all global session variables and destroy the session, use **session\_unset()** and **session\_destroy()**:

#### **Implementation and screenshots of output**

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# Somanja T. B. U. S. T.

```
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
  echo "Cookie '" . $cookie_name . "' has been set!<br>";
} else {
  echo "Cookie '" . $cookie_name . "' is already set!<br>";
  echo "Cookie Value: " . $ COOKIE[$cookie name] . "<br>";
if (isset($ POST['modify cookie'])) {
 setcookie($cookie_name, "OtherUser", time() + (86400 * 30), "/");
 header("Location: " . $_SERVER['PHP_SELF']);
 exit();
if (isset($_POST['delete_cookie'])) {
  setcookie($cookie_name, "", time() - 3600, "/");
 echo "Cookie '" . $cookie_name . "' has been deleted!<br>";
if (!isset($ SESSION['username'])) {
 $ SESSION['username'] = 'DefaultUser';
 echo "Session variable 'username' is set to: " . $ SESSION['username']
. "<br>";
} else {
 echo "Session variable 'username' is: " . $_SESSION['username'] .
"<br>";
if (isset($ POST['modify session'])) {
 $_SESSION['username'] = 'UpdatedUser';
 echo "Session variable 'username' has been updated to: " .
$ SESSION['username'] . "<br>";
if (isset($_POST['destroy_session'])) {
 session unset();
 session_destroy();
 header("Location: " . $_SERVER['PHP_SELF']);
 exit();
<body class="bg-light">
```



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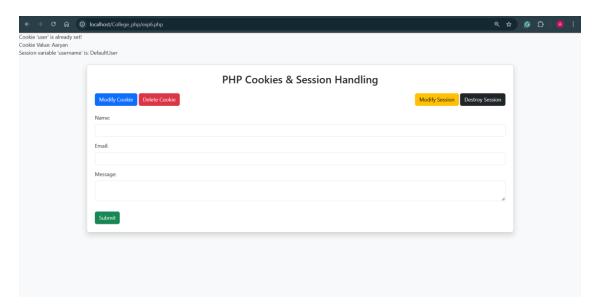
# Somanya

```
<div class="container mt-4">
    <div class="card p-4 shadow">
      <h2 class="text-center">PHP Cookies & Session Handling</h2>
      <div class="d-flex justify-content-between mt-3">
        <form method="POST">
          <input type="submit" name="modify_cookie" value="Modify</pre>
Cookie" class="btn btn-primary">
          <input type="submit" name="delete cookie" value="Delete</pre>
Cookie" class="btn btn-danger">
        </form>
        <form method="POST">
          <input type="submit" name="modify_session" value="Modify</pre>
Session" class="btn btn-warning">
          <input type="submit" name="destroy_session" value="Destroy</pre>
Session" class="btn btn-dark">
        </form>
      </div>
      <form method="POST" class="mt-4">
        <div class="mb-3">
          <label for="name" class="form-label">Name:</label>
          <input type="text" id="name" name="name" class="form-control">
        <div class="mb-3">
          <label for="email" class="form-label">Email:</label>
          <input type="email" id="email" name="email" class="form-</pre>
control">
        </div>
        <div class="mb-3">
          <label for="message" class="form-label">Message:</label>
          <textarea id="message" name="message" class="form-
control"></textarea>
        </div>
        <button type="submit" class="btn btn-success mt-</pre>
3">Submit</button>
      </form>
      <?php if ($_SERVER['REQUEST_METHOD'] == 'POST' &&</pre>
!isset($_POST['modify_cookie']) && !isset($_POST['delete_cookie'])): ?>
        <div class="mt-4">
          <h2>Submitted Form Data:</h2>
```



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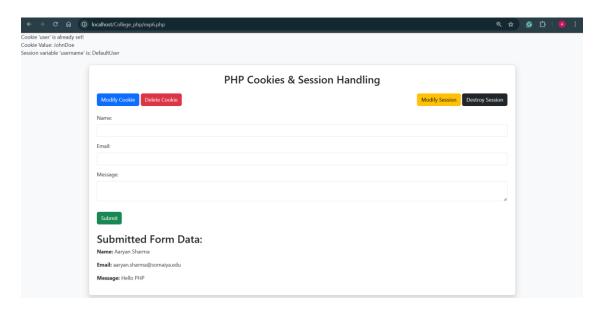


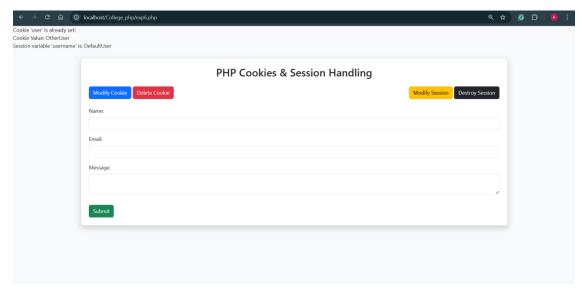




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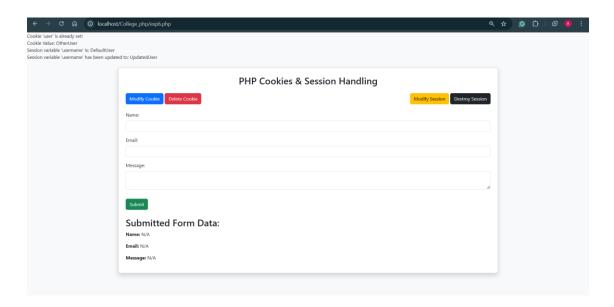


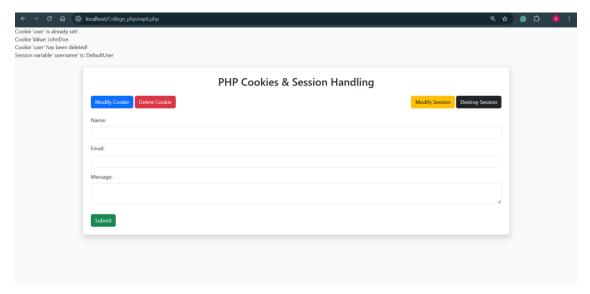




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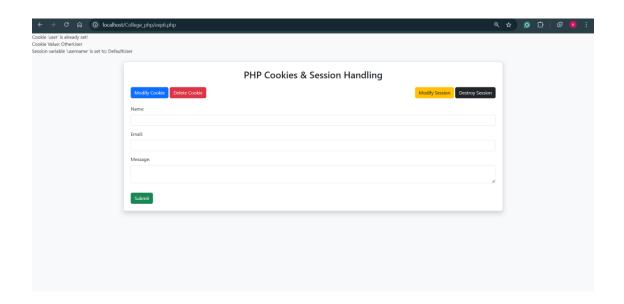




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### Post Lab questions: Answer the following.

1. Write the differences between cookies and sessions considering storage, persistence, data accessibility, scope and security as points of comparison.

Feature	Cookies	Sessions
Storage	Stored on the client-side (browser)	Stored on the server-side
_		
Persistence	Can persist even after closing the	Exists only until the browser is
	browser (based on expiration)	closed or session is destroyed
Data	Accessible by both server and	Only server-side can access and
Accessibility	client (can be modified by users)	modify session data
Scope	Shared across multiple	Available only within a specific
	requests/pages as long as the	session (i.e., until the user session
	cookie is valid	ends)
Security	Less secure because users can	More secure since session data is
	view and edit cookies	stored on the server and not
		exposed to users

2. How to check if cookies are enabled or not?

```
<?php
setcookie("test_cookie", "test", time() + 3600, "/");

if (count($_COOKIE) > 0) {
   echo "Cookies are enabled!";
} else {
   echo "Cookies are disabled!";

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```



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# Cookies are enabled!

3. How to get all session variable values? Explain with an example code. To retrieve all session variables, use the \$ SESSION array:

```
<?php
session_start();

$_SESSION["username"] = "Aaryan";

$_SESSION["role"] = "Admin";

print_r($_SESSION);
?>
```

Array ( [username] => Aaryan [role] => Admin )

#### **Conclusion:**

I have successfully learned and implemented the concepts of cookies and sessions in PHP. Through this experiment, I understood how cookies store client-side data for persistence, while sessions maintain user data securely on the server. I explored creating, modifying, and deleting cookies, as well as handling session variables efficiently. This knowledge will help in designing secure and optimized web applications with effective user data management.