

# Cookies and Session

- ❑ A cookie is a small file that the server embeds on the user's computer to identify a user
- ❑ Each time the same computer requests a page with a browser, it will send the cookie too
- ❑ With PHP, you can both create and retrieve cookie values
- ❑ provides a general approach to storing information about sessions on the browser system itself
- ❑ The server is given this information when the browser makes subsequent requests for Web resources from the server
- ❑ allows the server to present a customized interface to the client
- ❑ also allow the server to connect requests from a particular client to previous requests, thereby connecting sequences of requests into a session

# Cookies and Session

- At the time it is created, a cookie is assigned a lifetime. When the time a cookie has existed reaches its associated lifetime, the cookie is deleted from the browser's host machine
- a particular cookie is information that is exchanged exclusively between one specific browser and one specific server
- A cookie is set in PHP with the setcookie function. This function takes one or more parameters.

`setcookie(name, value, expire, path)`

Mandatory, string

New value, string

Time in seconds, integer,  
default 0 (end of current  
session)

# Cookies and Session

❏ `setcookie("valid", "true", time() + 86400);`

creates a cookie named "valid" whose value is "true" and whose lifetime is one day (86,400 is the number of seconds in a day)

```
<?php
$cookie_name = "user";
$cookie_value = "admin123";
setcookie($cookie_name, $cookie_value, time() + (86400*30), "/");
?>

<html>
  <body>
    <?php
      if(!isset($_COOKIE[$cookie_name]))
      {
        echo "Cookie named ". $cookie_name ."is not set!";
      }
      else
      {
        echo "Cookie $cookie_name is set!<br>";
        echo "Value is: " . $_COOKIE[$cookie_name];
      }
    ?>
  </body>
</html>
```

Available in entire website

To check if cookie is set

localhost/dashboard/s

Advance your skills...

Cookie user is set!  
Value is: admin123

Global variable  
to retrieve  
cookie value



# Cookies and Session

❏ `setcookie("valid", "true", time() - 3600);`

To delete a cookie, use `setcookie()` function with an expiration date in the past:

❏ cookie values are treated much like form values

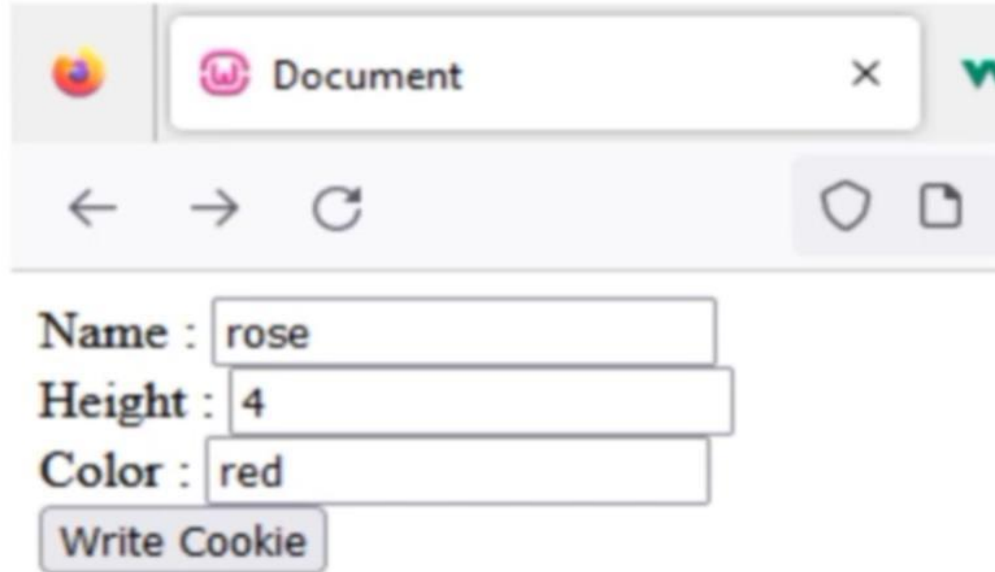
❏ All cookies that arrive with a request are placed in the implicit `$_COOKIE` array, which has the cookie names as keys and the cookie values as values

❏ most browsers have a limit on the number of cookies that will be accepted from a particular server site

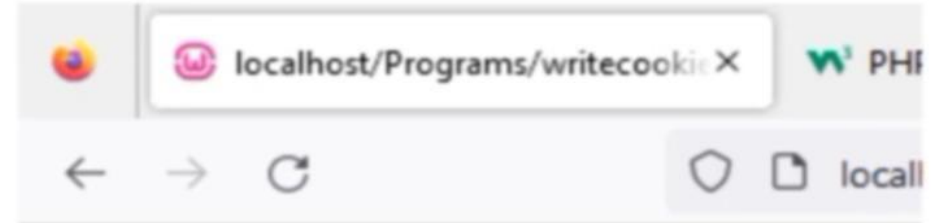
# Cookies and Session

- ❑ Rather than using one or more cookies, a single session array can be used to store information about the previous requests of a client during a session
- ❑ session arrays often store a unique session ID for a session

# Create cookie using form data



A screenshot of a web browser window. The address bar shows 'Document'. Below the address bar are navigation buttons (back, forward, refresh) and security icons (shield, document). The form contains three input fields: 'Name : rose', 'Height : 4', and 'Color : red'. Below these fields is a button labeled 'Write Cookie'.



Cookie set successfully

Name : rose

Height : 4, Color: red

# Create cookie using form data



```
<?php
if(isset($_POST["submit"]))
{
    setcookie("name",$_POST["name"],time()+(86400*5));
    setcookie("height",$_POST["height"],time()+(86400*5));
    setcookie("color",$_POST["color"],time()+(86400*5));
    $name=$_COOKIE["name"];
    $height=$_COOKIE["height"];
    $color=$_COOKIE["color"];
    echo "Cookie set successfully";
    echo "<p>Name : $name</p> Height : $height, Color: $color";
}
else
{
    ?>
```

```
<!DOCTYPE html>
<html>
<head>
<title>Document</title>
</head>
<body>
<form method="post" action="writecookie.php">
<label>Name : </label>
<input type="text" name="name"><br>
<label>Height : </label>
<input type="text" name="height"><br>
<label>Color : </label>
<input type="text" name="color"><br>
<input type="submit" name="submit" value="Write Cookie">
<br>
</form>
</body>
</html>
<?php
}
?>
```



# Session

- ❑ on the internet the web server does not know who you are or what you do, because the HTTP address doesn't maintain state
- ❑ Session variables solve this problem by storing user information to be used across multiple pages (e.g. username ,pwd etc)
- ❑ By default, session variables last until the user closes the browser
- ❑ Session variables hold information about one single user, and are available to all pages in one application
- ❑ differ from cookies is that they can be stored on the server, whereas cookies are stored on the client

# Session

- ❑ session ID is an internal value that identifies a session
- ❑ Session IDs need not be known or handled in any way by PHP scripts
- ❑ session\_start function causes a session ID to be created and recorded
- ❑ On subsequent calls to session\_start in the same session, the function retrieves the `$_SESSION` array, which stores any session variables and their values that were registered in previously executed scripts in this session
- ❑ A session is started with the session\_start() function.
- ❑ Session variables are set with the PHP global variable: `$_SESSION`

# Session

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html><body>
    <?php

    $_SESSION["uname"] ="admin";
    $_SESSION["pwd"] ="admin123";
    echo "Session variables are set.";
    ?>
</body></html>
```

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html><body>
    <?php

    // to change a session variable, just overwrite it
    $_SESSION["uname"] ="administrator";
    print ("welcome ".$_SESSION["uname"] );
    ?>
</body></html>
```

# Session – destroy a session

- ❑ session\_unset() and session\_destroy() removes all global session variables and destroy the session

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html><body>
    <?php
    | // remove all session variables
    session_unset();
    | // destroy the session
    | session_destroy();
    | echo "session cleared";
    ?>
</body></html>
```

# MySQL Integration-Connecting to MySQL with PHP

- ❑ The most popular ways to connect a PHP script to MySQL are MySQLi and PDO
- ❑ MySQL is an open-source relational database management system (RDBMS) used with PHP
- ❑ data in a MySQL database are stored in tables that consist of columns and rows
- ❑ MySQL is a database system that runs on a server ideal for both small and large applications which is very fast, reliable, and easy-to-use
- ❑ uses standard SQL and compiles on a number of platforms
- ❑ PHP 5 and later can work with a MySQL database using:
  - ❑ MySQLiextension (the 'i' is abbreviation for improved)
  - ❑ PDO (PHP Data Objects)



# MySQL Integration-Connecting to MySQL with PHP

- ❑ Connection to MySQL using MySQLi
- ❑ PHP provides `mysql_connect()` function to open a database connection
- ❑ To disconnect from the MySQL database use `mysql_close()`.
- ❑ There is also a procedural approach of MySQLi to establish a connection to MySQL database from a PHP script



# MySQL Integration-Connecting to MySQL with PHP

- ✶ The basic syntax for a connection to MySQL is as follows:

```
$mysqli= mysqli_connect("hostname", "username", "password", "database");
```

- ✶ Eg.

```
$mysqli= mysqli_connect("localhost", "root", "", "test");
```

# MySQL Integration-Connecting to MySQL with PHP

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname="test";
// Connection
$conn= mysqli_connect($servername,$username, $password,$dbname);
// For checking if connection is successful or not
if ($conn->connect_error) {
die("Connection failed: ". $conn->connect_error);
}
echo "Connected to ".$dbname." Established successfully";
?>
```

# MySQL

Just like exit()

```
<?php
$conn = mysqli_connect("localhost", "root", "", "test");
// For checking if connection is successful or not
if ($conn->connect_error) {
    die("Connection failed: ". $conn->connect_error);
}
echo "Connection to DB Established successfully";
$sql = "INSERT INTO testTable(testField) VALUES ('$_POST[testfield]')";
$res = mysqli_query($conn, $sql);
//if ($conn->query($sql) === TRUE)
if($res===TRUE)
{
    echo '<br/>Data Inserted successfully!';
}
else
{
    echo "Error: " . $sql . "<br>" . $conn->error;
}
$conn->close();
>>
```

# Registration form

← → ↻ 🏠 ⓘ localhost/das

[P](#) Paatshala: Log in to... [▶](#) Advance you

Name:

Address:

Gender: ☐ Female ☐ Male

← → ✕ 🏠 ⓘ localhost/d

[P](#) Paatshala: Log in to... [▶](#) Advance y

localhost says

Registration Completed successfully!



```
<?php
if(isset($_POST["submit"]))
{ // Check if we click on SUBMIT BUTTON
    $servername = "localhost";
    $username = "root";
    $password = "";
    $dbname = "test";
    $conn = new mysqli($servername, $username, $password, $dbname);
    if ($conn->connect_error)
    {
        die("Connection failed: " . $conn->connect_error);
    } // insert Query
    $sql = "INSERT INTO ttest(name,address,gender) VALUES ('$_POST[name]', '$_POST[address]', '$_POST[gender]')";
    $res = mysqli_query($conn, $sql);
    //if ($conn->query($sql) === TRUE)
    // {
        if($res===TRUE)
        {
            echo '<script>alert("Data Inserted successfully!");</script>';
        }
    } else
    {
        echo "Error: " . $sql . "<br>" . $conn->error;
    }
    $conn->close();
}
else
{
    ?>
```

```
<form method="post" action="register.php">
✓ <table>
✓   <tr>
      <td>Name: </td>
      <td><input type="text" name="name"></td>
    </tr>
✓   <tr><td>Address:</td>
      <td><textarea name="address"></textarea></td>
    </tr>
✓   <tr>
      <td></td>
      <td><td>Gender:</td>
      <td><input type="radio" name="gender" value="female">Female
      <input type="radio" name="gender" value="male">Male</td>
    </tr>
    <tr><td></td><td><input type="submit" name="submit" value="Submit"></td>
    </tr>
  </table>
✓ </form>
  <?php
}
?>
```

## A Script to Create a Table

```
<?php
$mysqli = mysqli_connect("localhost", "testuser", "somepass", "testDB");

if (mysqli_connect_errno()) {
    printf("Connect failed: %s\n", mysqli_connect_error());
    exit();
} else {
    $sql = "CREATE TABLE testTable
        (id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
        testField VARCHAR(75))";
    $res = mysqli_query($mysqli, $sql);

    if ($res === TRUE) {
        echo "Table testTable successfully created.";
    } else {
        printf("Could not create table: %s\n", mysqli_error($mysqli));
    }

    mysqli_close($mysqli);
}
?>
```

# Select Data From a MySQL Database

Select Data With MySQLi can also be done in two ways

- MySQLi Object-oriented
- MySQLi Procedural

```
<?php
$conn = mysqli_connect("localhost", "root", "", "test");
// For checking if connection is successful or not
if ($conn->connect_error) {
    die("Connection failed: ". $conn->connect_error);
}
echo "Connection to DB Established successfully";
$sql = "SELECT * FROM testTable";
$result = $conn->query($sql);

if ($result->num_rows > 0) {
    // output data of each row
    echo "<br/><b>.....id....My Message.....</b><br/>" ;
    while($row = $result->fetch_assoc()) {
        echo ".....".$row["id"]. "....." . $row["testField"]. "<br>";
    }
} else {
    echo "0 results";
}
$conn->close();
?>
```

```
.....id....My Message.....
3.....cccc
4.....wwwwww
5.....god bless you
6.....my name is smitha
8.....I am from Pala
```



```
<?php
$conn = mysqli_connect("localhost", "root", "", "test");
// For checking if connection is successful or not
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
$sql = "SELECT * FROM testTable";
$result = mysqli_query($conn, $sql);
if (mysqli_num_rows($result) > 0) {
    // output data of each row
    echo "<table border='border' width='300'><tr><th>id</th><th>My Message</th></tr>";
    while($row = mysqli_fetch_assoc($result)) {
        echo "<tr><td>".$row["id"]. "</td><td>". $row["testField"]. "</td></tr>";
    }
    echo "</table>";
} else {
    echo "0 results";
}
$conn->close();
>
```

id	My Message
3	cccc
4	wwwwww
5	god bless you
6	my name is smitha
8	I am from Pala