

WEB TECHNOLOGY (ITPC 33)



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EXPERIMENT 4

Program 1: Create a PHP program to create cookies and read cookies.

1) File : index.php

Code

```
<!-- Create a PHP program to create cookies and read cookies. -->

<?php
    $str = "";
    if($_POST)
    {
        $str = $_POST['Name'];
    }

    $cookie_name = "User";
    $cookie_value = "$str";
    setcookie($cookie_name , $cookie_value , time() + 120, "/");
?>

<html>
    <body>
        <h1> Cookie Set using PHP </h1>
        <form method="post">
            Enter the username:
            <input type="text" name="Name">
            <input type="submit" name="Submit">
        </form>

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

OUTPUT Screen:

Cookie using PHP

Enter the username:

Cookie 'User' is set!

Cookie value is 'Rakshak'

Program 2: Create a login form with the help of session. User should move to next page when successfully login.

1) File : index.php

Code

```
<?php
session_start();

if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Welcome</title>
    <style type="text/css">
        body{ font: 14px sans-serif; text-align: center; }
    </style>
</head>
<body>
    <div class="page-header">
        <h1>Hi, <b><?php echo htmlspecialchars($_SESSION["username"]); ?></b>.
        Welcome to our site.</h1>
    </div>
    <p>
        <a href="reset-password.php" class="btn btn-
warning">Reset Your Password</a>
    <br>
```

```
        <a href="logout.php" class="btn btn-  
danger">Sign Out of Your Account</a>  
    </p>  
</body>  
</html>
```

2) File : register.php

Code

```
<?php  
  
require_once "config.php";  
  
$username = $password = $confirm_password = "";  
$username_err = $password_err = $confirm_password_err = "";  
  
if($_SERVER["REQUEST_METHOD"] == "POST"){  
  
    if(empty(trim($_POST["username"]))){  
        $username_err = "Please enter a username.";  
    } else{  
        $sql = "SELECT id FROM users WHERE username = ?";  
  
        if($stmt = mysqli_prepare($link, $sql)){  
            mysqli_stmt_bind_param($stmt, "s", $param_username);  
  
            $param_username = trim($_POST["username"]);  
  
            if(mysqli_stmt_execute($stmt)){  
                mysqli_stmt_store_result($stmt);  
  
                if(mysqli_stmt_num_rows($stmt) == 1){  
                    $username_err = "This username is already taken.";  
                } else{  
                    $username = trim($_POST["username"]);  
                }  
            } else{  
                echo "Oops! Something went wrong. Please try again later.";  
            }  
  
            mysqli_stmt_close($stmt);  
        }  
    }  
  
    if(empty(trim($_POST["password"]))){  
        $password_err = "Please enter a password.";  
    } elseif(strlen(trim($_POST["password"])) < 6){  
        $password_err = "Password must have atleast 6 characters.";  
    } else{
```

```

        $password = trim($_POST["password"]);
    }

    if(empty(trim($_POST["confirm_password"]))){
        $confirm_password_err = "Please confirm password.";
    } else{
        $confirm_password = trim($_POST["confirm_password"]);
        if(empty($password_err) && ($password != $confirm_password)){
            $confirm_password_err = "Password did not match.";
        }
    }
}

if(empty($username_err) && empty($password_err) && empty($confirm_password_err)){

    $sql = "INSERT INTO users (username, password) VALUES (?, ?)";

    if($stmt = mysqli_prepare($link, $sql)){

        mysqli_stmt_bind_param($stmt, "ss", $param_username, $param_password);

        $param_username = $username;
        $param_password = password_hash($password, PASSWORD_DEFAULT);

        if(mysqli_stmt_execute($stmt)){
            header("location: login.php");
        } else{
            echo "Something went wrong. Please try again later.";
        }

        mysqli_stmt_close($stmt);
    }
}

mysqli_close($link);
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Sign Up</title>
    <style type="text/css">
        body{ font: 14px sans-serif; }
        .wrapper{ width: 350px; padding: 20px; }
    </style>

```

```

</head>
<body>
    <div class="wrapper">
        <h2>Sign Up</h2>
        <p>Please fill this form to create an account.</p>
        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" m
ethod="post">
            <div class="form-group <?php echo (!empty($username_err)) ? 'has-
error' : ''; ?>">
                <label>Username</label>
                <input type="text" name="username" class="form-
control" value="<?php echo $username; ?>">
                <span class="help-block"><?php echo $username_err; ?></span>
            </div>
            <div class="form-group <?php echo (!empty($password_err)) ? 'has-
error' : ''; ?>">
                <label>Password</label>
                <input type="password" name="password" class="form-
control" value="<?php echo $password; ?>">
                <span class="help-block"><?php echo $password_err; ?></span>
            </div>
            <div class="form-
group <?php echo (!empty($confirm_password_err)) ? 'has-error' : ''; ?>">
                <label>Confirm Password</label>
                <input type="password" name="confirm_password" class="form-
control" value="<?php echo $confirm_password; ?>">
                <span class="help-
block"><?php echo $confirm_password_err; ?></span>
            </div>
            <div class="form-group">
                <input type="submit" class="btn btn-primary" value="Submit">
                <input type="reset" class="btn btn-default" value="Reset">
            </div>
            <p>Already have an account? <a href="login.php">Login here</a>.</p>
        </form>
    </div>
</body>
</html>

```

3) File : login.php

Code

```

<?php

session_start();

if(isset($_SESSION["loggedin"]) && $_SESSION["loggedin"] === true){
    header("location: welcome.php");
}

```



```

        $_SESSION["username"] = $username;

        header("location: welcome.php");
    } else{
        $password_err = "The password you entered was not
valid.";
    }
}
} else{
    $username_err = "No account found with that username.";
}
} else{
    echo "Oops! Something went wrong. Please try again later.";
}
mysqli_stmt_close($stmt);
}
}
mysqli_close($link);
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Login</title>
    <style type="text/css">
        body{ font: 14px sans-serif; }
        .wrapper{ width: 350px; padding: 20px; }
    </style>
</head>
<body>
    <div class="wrapper">
        <h2>Login</h2>
        <p>Please fill in your credentials to login.</p>
        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" m
ethod="post">
            <div class="form-group <?php echo (!empty($username_err)) ? 'has-
error' : ''; ?>">
                <label>Username</label>
                <input type="text" name="username" class="form-
control" value="<?php echo $username; ?>">
                <span class="help-block"><?php echo $username_err; ?></span>
            </div>
            <div class="form-group <?php echo (!empty($password_err)) ? 'has-
error' : ''; ?>">
                <label>Password</label>

```



```

        <input type="password" name="password" class="form-control">
        <span class="help-block"><?php echo $password_err; ?></span>
    </div>
    <div class="form-group">
        <input type="submit" class="btn btn-primary" value="Login">
    </div>
    <p>Don't have an account? <a href="register.php">Sign up now</a>.<
/p>
    </form>
</div>
</body>
</html>

```

4) File : logout.php

Code

```

<?php
session_start();

$_SESSION = array();

session_destroy();

header("location: login.php");
exit;
?>

```

5) File : config.php

Code

```

<?php
define('DB_SERVER', 'localhost');
define('DB_USERNAME', 'root');
define('DB_PASSWORD', '');
define('DB_NAME', 'first');

$link = mysqli_connect(DB_SERVER, DB_USERNAME, DB_PASSWORD, DB_NAME);

if($link === false){
    die("ERROR: Could not connect. " . mysqli_connect_error());
}
?>

```

6) File : reset.php

Code

```

<?php
session_start();

```

```

if(!isset($_SESSION["loggedin"]) || $_SESSION["loggedin"] !== true){
    header("location: login.php");
    exit;
}

require_once "config.php";

$new_password = $confirm_password = "";
$new_password_err = $confirm_password_err = "";

if($_SERVER["REQUEST_METHOD"] == "POST"){

    if(empty(trim($_POST["new_password"]))){
        $new_password_err = "Please enter the new password.";
    } elseif(strlen(trim($_POST["new_password"])) < 6){
        $new_password_err = "Password must have atleast 6 characters.";
    } else{
        $new_password = trim($_POST["new_password"]);
    }

    if(empty(trim($_POST["confirm_password"]))){
        $confirm_password_err = "Please confirm the password.";
    } else{
        $confirm_password = trim($_POST["confirm_password"]);
        if(empty($new_password_err) && ($new_password != $confirm_password)){
            $confirm_password_err = "Password did not match.";
        }
    }
}

if(empty($new_password_err) && empty($confirm_password_err)){

    $sql = "UPDATE users SET password = ? WHERE id = ?";

    if($stmt = mysqli_prepare($link, $sql)){

        mysqli_stmt_bind_param($stmt, "si", $param_password, $param_id);

        $param_password = password_hash($new_password, PASSWORD_DEFAULT);
        $param_id = $_SESSION["id"];

        if(mysqli_stmt_execute($stmt)){
            session_destroy();
            header("location: login.php");
            exit();
        } else{
            echo "Oops! Something went wrong. Please try again later.";
        }
    }
}

```

```

        mysqli_stmt_close($stmt);
    }
}

mysqli_close($link);
}
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Reset Password</title>
    <style type="text/css">
        body{ font: 14px sans-serif; }
        .wrapper{ width: 350px; padding: 20px; }
    </style>
</head>
<body>
    <div class="wrapper">
        <h2>Reset Password</h2>
        <p>Please fill out this form to reset your password.</p>
        <form action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]); ?>" m
ethod="post">
            <div class="form-
group <?php echo (!empty($new_password_err)) ? 'has-error' : ''; ?>">
                <label>New Password</label>
                <input type="password" name="new_password" class="form-
control" value="<?php echo $new_password; ?>">
                <span class="help-
block"><?php echo $new_password_err; ?></span>
            </div>
            <div class="form-
group <?php echo (!empty($confirm_password_err)) ? 'has-error' : ''; ?>">
                <label>Confirm Password</label>
                <input type="password" name="confirm_password" class="form-
control">
                <span class="help-
block"><?php echo $confirm_password_err; ?></span>
            </div>
            <div class="form-group">
                <input type="submit" class="btn btn-primary" value="Submit">
                <a class="btn btn-link" href="welcome.php">Cancel</a>
            </div>
        </form>
    </div>
</body>
</html>

```

OUTPUT Screen:

localhost/Experiment2php/register.php

Sign Up

Please fill this form to create an account.

Username

Password

Confirm Password

Already have an account? [Login here.](#)

localhost/Experiment2php/login.php

Login

Please fill in your credentials to login.

Username

Password

Don't have an account? [Sign up now.](#)

localhost/Experiment2php/welcome.php

Hi, Rakshak_123. Welcome to our site.

[Reset Your Password](#)
[Sign Out of Your Account](#)

← → ↻ 🏠 ⓘ localhost/Experiment2php/reset-password.php

Reset Password

Please fill out this form to reset your password.

New Password

Confirm Password

[Cancel](#)

← → ↻ 🏠 ⓘ localhost/Experiment2php/login.php

Login

Please fill in your credentials to login.

Username

Password

Don't have an account? [Sign up now.](#)

Program 3: Create a PHP program to show magic constants.

1) File : index.php

Code

```
<html>
<body>
<h1 style="text-align:center;">MAGIC CONSTANTS</h1>
</body>
</html>

<?php
    echo "<h3>Example for __FILE__</h3>";
    echo "It tells us the path of our file is : ". __FILE__ . "<br><br>";

    echo "<h3>Example for __LINE__</h3>";
```

```

    echo "This line tells us that you are at line number " . __LINE__ . "<br><br>";

    echo "<h3>Example for __DIR__</h3>";
    echo "The directory in which our file is : " . __DIR__ . "<br><br>";
    echo "This statement also provides the directory but using __FILE__ constant : ".dirname(__FILE__) . "<br><br>";

    echo "<h3>Example for __FUNCTION__</h3>";
    function test(){
        echo 'The function name is ' . __FUNCTION__ . "<br><br>";
        echo "Hello World<br><br>";
    }
    test();

    echo "<h3>Example for __CLASS__</h3>";
    class JTP
    {
        public function __construct() {

        };
    }
    function getClass_name(){
        echo "The class name is : ".__CLASS__ . "<br><br>";
    }
    }
    $t = new JTP;
    $t->getClass_name();

    //in case of multiple classes
    class base
    {
        function test_first(){
            //will always print parent class which is base here.
            echo "The Parent class is : ".__CLASS__;
        }
    }
    class child extends base
    {
        public function __construct() {

        };
    }
    }
    $t = new child;
    $t->test_first();

```

?>

OUTPUT Screen:

MAGIC CONSTANTS

Example for `__FILE__`

It tells us the path of our file is : C:\xampp\htdocs\RakshakProjects\magic_cons.php

Example for `__LINE__`

This line tells us that you are at line number 12

Example for `__DIR__`

The directory in which our file is : C:\xampp\htdocs\RakshakProjects

This statement also provides the directory but using `__FILE__` constant : C:\xampp\htdocs\RakshakProjects

Example for `__FUNCTION__`

The function name is test

Hello World

Example for `__CLASS__`

The class name is : JTP

The Parent class is : base

Program 4: Create a PHP program for tracking number of visitors (file handling).

1) File : index.php

Code

```
<!-- PHP Program for tracking number of visitors(file -->
<!-- handling) -->
<!DOCTYPE html >
<head>
  <title> My Counter Website</title>
</head>
<body bgcolor = "orange" >
  <h1> this is the counter website </h1>
</body>
</html>
<?php
  $handle = fopen("./counter.txt", "r");
  if(!$handle){
    echo "could not open the file" ;
  } else {
    $counter = (int) fread($handle,20);
```

```

fclose ($handle);
$counter++;
echo" <strong> you are visitor no ". $counter . " </strong> " ;
$handle = fopen("./counter.txt", "w" );
fwrite($handle,$counter) ;
fclose ($handle) ;
}
?>

```

OUTPUT Screen:

this is the counter website

you are visitor no 2

Program 5: Create a PHP program to show use of include /require.

1) File : index.php

Code

```

<!-- Create a PHP program to show use of include /require. -->
<html>
  <body>
    <p>
      The Include and Require statements have the following difference
    </p>
    <p>
      <ul>
        <li>if file is included using the <b>include</b> statement, if file is
not present the execution still continues.</li>
        <li>if file is included using the <b>require</b> statement, if file is
not present the execution stops.
      </ul>
    </p>
  </body>
</html>

```


<p>if file is not present include give us warning but still continues execution but require requires the file to be present and thus there is an error.</p>

<p>Following is the file header included using <u>include</u>
 and the content using <u>require</u>
 and the footer using <u>include</u> again.

</p>

<h2>Welcome to page!</h2>

<?php

ini_set("display_errors" , 0);

include 'header.php';

echo "I have a header named ";

echo "<h1>This is the content</h1>";

require 'content.php';

echo "I have a content that car color is red";

include 'footer.php';

echo "I have nothing to show here.";

?>

</body>

<html>

OUTPUT Screen:

The Include and Require statements have the following difference

- if file is included using the **include** statement, if file is not present the execution still continues.
- if file is included using the **require** statement, if file is not present the execution stops.

if file is not present **include** give us warning but still continues execution but **require** requires the file to be present and thus there is an error.

Following is the file header included using **include**
and the content using **require**
and the footer using **include** again.

Welcome to page!

I have a header named

This is the content

