

Experiment No: 6

Aim: Add dynamic web application, essence using PHP, HTML & MySQL

Objectives: To understand principles & methodologies of PHP web based applications development process.

Problem Statement: Design & develop dynamic web application using PHP & MySQL as a back-end for employee data with insert, delete, view & update options.

SW & HW req: Ubuntu 64 bit / windows XP.
XAMPP Server, Intel P4 m/c + RAM & 32GB

Theory: PHP:

- PHP Hypertext Preprocessor (PHP) began as little open source venture that advanced as an ever increasing no. of individuals discovered how valuable it was.

- PHP is a server side programming is installed in HTML. It is incorporated with various prevalent databases, including MySQL, Oracle, Sybase. Informatica. PHP performs framework capacities i.e. from document on a framework it can open, read, compose & close them.

```
<html> <head>
<title> Hello world </title> </head>
<body>
<? php
echo ('Hello php');
?> </body> </html>
```

O/P ⇒ Hello world.

Technology: Used to PHP & tool XAMPP server is used to execute PHP web application.

- XAMPP server embeds the PHP, MySQL & phpmyadmin these 3 tools must be required to run php web applⁿ.

Design / execution steps:

- 1] Download XAMPP & configure PHP, MySQL server & install
- 2] After ab
- 3] over command following installation window appear
- 4] open browser & type 'localhost' in URL
- 5] started XAMPP server
- 6] To navigate to root folder .cd
- 7] navigate htdocs cd opt 1/ xampp/htdocs
- 8] Create file
- 9] Go to browser type localhost/ filename.php
- 10] Create MySQL database.

Conclusion: We have studied how to design & develop small web applⁿ using PHP Script, XAMPP with Apache server & MySQL as backend.

Program:

1. index.php

```
<?php
//including the database connection file
include_once("config.php");
//fetching data in descending order (lastest entry first)
//$result = mysql_query("SELECT * FROM users ORDER BY id DESC"); // mysql_query is
deprecated
$result = mysqli_query($mysqli, "SELECT * FROM users ORDER BY id DESC"); // using
mysqli_query instead
```

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Web Technology Lab Manual

?>

```
<html>
```

```
<head>
```

```
<title>Homepage</title>
```

```
</head>
```

```
<body>
```

```
<a href="add.html">Add New Data</a><br/><br/>
```

```
<table width='80%' border=0>
```

```
<tr bgcolor='#CCCCCC'>
```

```
<td>Name</td>
```

```
<td>Age</td>
```

```
<td>Email</td>
```

```
<td>Update</td>
```

```
</tr>
```

```

<?php
//while($res = mysql_fetch_array($result)) { // mysql_fetch_array is deprecated, we need to
use mysqli_fetch_array
while($res = mysqli_fetch_array($result)) {
echo "<tr>";
echo "<td>".$res['name']."</td>";
echo "<td>".$res['age']."</td>";
echo "<td>".$res['email']."</td>";
echo "<td><a href=\"edit.php?id=$res[id]\">Edit</a> | <a
href=\"delete.php?id=$res[id]\" onClick=\"return confirm('Are you sure you want to
delete?')\">Delete</a></td>";
}
?>
</table>
</body>
</html>

```

2. add.html

```

<html>
<head>
<title>Employee Data</title>
</head>
<body>
<a href="index.php">Home</a>
<br/><br/>
<form action="add.php" method="post" name="form1">
<table width="25%" border="0">
<tr>

```

```
<td>Name</td>
<td><input type="text" name="name"></td>
</tr>
<tr>
<td>Age</td>
<td><input type="text" name="age"></td>
</tr>
<tr>
<td>Email</td>
<td><input type="text" name="email"></td>
</tr>
<tr>
<td></td>
<td><input type="submit" name="Submit" value="Add"></td>
</tr>
</table>
</form>
</body>
</html>
```

3. add.php

```
<html>
<head>
<title>Add Data</title>
</head>
<body>
<?php
//including the database connection file
```



```

include_once("config.php");
if(isset($_POST['Submit'])) {
$name = mysqli_real_escape_string($mysqli, $_POST['name']);
$age = mysqli_real_escape_string($mysqli, $_POST['age']);
$email = mysqli_real_escape_string($mysqli, $_POST['email']);
// checking empty fields
if(empty($name) || empty($age) || empty($email)) {
if(empty($name)) {
echo "<font color='red'>Name field is empty.</font><br/>";
}
if(empty($age)) {
echo "<font color='red'>Age field is empty.</font><br/>";
}
if(empty($email)) {
echo "<font color='red'>Email field is empty.</font><br/>";
}
//link to the previous page
echo "<br/><a href='javascript:self.history.back();'>Go Back</a>";
} else {
// if all the fields are filled (not empty)
//insert data to database
$result = mysqli_query($mysqli, "INSERT INTO users(name,age,email)
VALUES('$name','$age','$email')");
//display success message
echo "<font color='green'>Data added successfully.";
echo "<br/><a href='index.php'>View Result</a>";
}
}
}

```

```
?>
</body>
</html>
```

4. edit.php

```
<?php
// including the database connection file
include_once("config.php");
if(isset($_POST['update']))
{
$id = mysqli_real_escape_string($mysqli, $_POST['id']);
$name = mysqli_real_escape_string($mysqli, $_POST['name']);
$age = mysqli_real_escape_string($mysqli, $_POST['age']);
$email = mysqli_real_escape_string($mysqli, $_POST['email']);
// checking empty fields
if(empty($name) || empty($age) || empty($email)) {
if(empty($name)) {
echo "<font color='red'>Name field is empty.</font><br/>";
}
if(empty($age)) {
echo "<font color='red'>Age field is empty.</font><br/>";
}
if(empty($email)) {
echo "<font color='red'>Email field is empty.</font><br/>";
}
} else {
//updating the table
$result = mysqli_query($mysqli, "UPDATE users SET
```

```
name='$name',age='$age',email='$email' WHERE id=$id");
//redirectig to the display page. In our case, it is index.php
header("Location: index.php");
}
}
?>
<?php
//getting id from url
$id = $_GET['id'];
//selecting data associated with this particular id
$result = mysqli_query($mysqli, "SELECT * FROM users WHERE id=$id");
while($res = mysqli_fetch_array($result)) {
$name = $res['name'];
$age = $res['age'];
$email = $res['email'];
}
?>
<html>
<head>
<title>Edit Data</title>
</head>
<body>
<a href="index.php">Home</a>
<br/><br/>
<form name="form1" method="post" action="edit.php">
<table border="0">
<tr>
<td>Name</td>
```



```

<td><input type="text" name="name" value="<?php echo
$name;?>"></td>
</tr>
<tr>
<td>Age</td>
<td><input type="text" name="age" value="<?php echo
$age;?>"></td>
</tr>
<tr>
<td>Email</td>
<td><input type="text" name="email" value="<?php echo
$email;?>"></td>
</tr>
<tr>
<td><input type="hidden" name="id" value="<?php echo
$_GET['id'];?>"></td>
<td><input type="submit" name="update" value="Update"></td>
</tr>
</table>
</form>
</body>
</html>

```

5. delete.php

```

<?php
include("config.php");
$id = $_GET['id'];
$result = mysqli_query($mysqli, "DELETE FROM users WHERE id=$id");

```

```
header("Location:index.php");  
?>
```

6. config.php

```
<?php  
$database = 'localhost';  
$dbName = 'test';  
$dbUser = 'root';  
$dbPass = "";  
$mysqli = mysqli_connect($database, $dbUser, $dbPass, $dbName);  
?>
```

7. database.sql

```
a. create database emp;  
b. use emp;  
c. CREATE TABLE `users` (  
  `id` int(11) NOT NULL auto_increment,  
  `name` varchar(100) NOT NULL,  
  `age` int(3) NOT NULL,  
  `email` varchar(100) NOT NULL,  
  PRIMARY KEY (`id`)  
);
```