

# **Experiment No.7**

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## **Title:**

Design and develop dynamic web application using PHP, AJAX and MySQL as a back-end for employee data with insert and view operations.

## **Theory:**

### **PHP:**

The PHP Hypertext Processor began as a little open source venture that advanced as an ever increasing number of individuals discovered how valuable it was. Rasmus Lerdorf released the principal form of PHP route in 1994. PHP is a recursive acronym for “PHP: Hypertext Processor”.

PHP is a server side scripting dialect that is installed in HTML. It utilized to oversee dynamic substance, databases, session following, even form whole internet business locales. It is incorporated with various prevalent databases, including MySQL, PostgreSQL, Oracle, Sybase, Informix, and Microsoft SQL Server.

PHP is pleasingly zippy in its execution, particularly when gathered as an Apache module on the Unix side. The MySQL server, once began, executes even extremely complex questions with colossal outcome sets in record-setting time.

### **MySQL:**

MySQL is the most famous Open Source Relational SQL Database Management System. MySQL is outstanding amongst other RDBMS being utilized for creating different online programming applications. MySQL is created, advertised and

upheld by MySQL AB, which is a Swedish organization. MySQL is a quick, simple to utilize RDBMS being utilized for some little huge organizations.

### **AJAX:**

AJAX remains for Asynchronous JavaScript and XML. AJAX is another procedure for making better, speedier, and more dynamic web applications with the assistance of XML, HTML, CSS, and JavaScript. AJAX utilizes XHTML for content, CSS for introduction, alongside Document Object Model and JavaScript for Dynamic substance show.

Customary web applications transmit data to and from the server utilizing synchronous solicitations. It implies you round out a frame, hit submit, JavaScript will influence a demand to the server, to decipher the outcomes, and refresh the present screen. AJAX is a gathering of between related innovations like JavaScript, DOM, XML, HTML, CSS and so forth.

### **Program: dbconnect.php code:**

```
<?php
//Define Constants define('DB_SERVER',
'localhost'); define('DB_USERNAME',
'root');
define('DB_PASSWORD','sanket123'); define('DB_NAME','studentinfo');
/*Database Connection*/
```

```
$conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_NAME);
if($conn===false){ die("Error:Could not Connect

".mysqli_connect_error());
}

?>
```

**login.php code:** <?php

```
require_once 'dbconnect.php';
```

```
session_start();
```

```
$username=$password="";
```

```
if(isset($_POST['submit'])){
```

```
    $username = trim($_POST['username']);    $password
```

```
= trim($_POST['password']);    if(!$username=="&&
```

```
!$password==""){
```

```
    $sql = "SELECT *FROM student where username='$username' and
password='$password'";
```

```
    $query = mysqli_query($conn,$sql);
```

```
    $count = mysqli_num_rows($query);
```

```
    if($count == 1){
```

```
        $_SESSION['username']=$username;
header("location:welcome.php");

    }
else{        echo "<script>alert('Username of password is incorrect!!')</script>";
    }
    }
else{        echo "<script>alert('All Fields should not be blank!!')</script>";
    }
}
else{

}

?>

<!DOCTYPE html>

<html>

<head>

    <title>Student Login Form</title>

</head>

<body>

<h3>Student Login Form</h3>

<hr>
```

```
<form action="" method="POST">
    <label>Username</label><br>
    <input type="text" name="username" placeholder="Enter Username"><br>
    <label>Password</label><br>
    <input type="password" name="password" placeholder="Enter Password"><br>
    <input type="submit" name="submit" value="Login">
    <input type="reset" name="reset" value="Reset">
    <p>Not Registered? <a href="register.php">Sign Up</a></p>
</form>
</body>
</html>
```

#### **register.php code:**

```
<?php require_once
'dbconnect.php';

$username=$password=$firstname=$lastname=$gender=$email=$course=$mobile="";

if(isset($_POST['submit'])){

    //Access the values of input fields

    $username = trim($_POST['username']);
```

```
$password = trim($_POST['password']);
```

```
$firstname = trim($_POST['firstname']);
```

```
$lastname = trim($_POST['lastname']);
```

```
$gender = trim($_POST['gender']);
```

```
$email = trim($_POST['email']);
```

```
$course = trim($_POST['course']);
```

```
$mobile = trim($_POST['mobile']);
```

```
//Define SQL query
```

```
$sql = "INSERT INTO  
student(username,password,firstname,lastname,gender,email,course,mobile)valu  
es('$username','$password','$firstname','$lastname','$gender','$email','$course',  
$mobile)";
```

```
//Execute SQL Query
```

```
$query = mysqli_query($conn,$sql);
```

```
if($query){    echo "<script>alert('Your are registered  
successfully!!')</script>";
```

```
}
```

```
else{    echo "<script>alert('Sorry!!  
Error!!')</script>";
```

```
}
```

```
}  
else{  
  
}  
  
?>  
  
<!DOCTYPE html>  
  
<html>  
  
<head>  
    <title>Registration Form</title>  
</head>  
  
<body>  
  
<h3>Student Registration Form</h3>  
  
<hr>  
  
<form action="<?php htmlspecialchars($_SERVER["PHP_SELF"])?>"  
method="POST">  
    <label>Username</label><br>  
    <input type="text" name="username" placeholder="Enter your  
username"><br>  
    <label>Password</label><br>  
    <input type="password" name="password" placeholder="Enter your  
password"><br>  
    <label>Firstname</label><br>
```

```
<input type="text" name="firstname" placeholder="Enter your firstname"><br>
<label>Lastname</label><br>

<input type="text" name="lastname" placeholder="Enter your lastname"><br>

<label>Gender</label><br>

<input type="radio" name="gender" value="Male">Male
<input type="radio" name="gender" value="Female">Female<br>

<label>Email</label><br>

<input type="email" name="email" placeholder="Enter your email
address"><br>

<label>Course</label><br>

<select name="course">
    <option>Select Course</option>
    <option>SE Computer</option>
    <option>TE Computer</option>
    <option>BE Computer</option>
</select><br>

<label>Mobile Number</label><br>

<input type="text" name="mobile" placeholder="Enter your mobile
number"><br>

<input type="submit" name="submit" value="Submit">
<input type="reset" name="reset" value="Reset">

<p>Already Registered? <a href="login.php">Sign In</a></p>

</form>
```



```
</body> </html> logout.php
```

```
code: <?php session_start();  
session_unset(); session_destroy();  
header("location:login.php")  
;  
exit; ?>
```

```
welcome.php code: <?php session_start();  
if(!isset($_SESSION['username'])) { header("location:login.php");  
    exit; }  
?>
```

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title>Welcome Page</title> <script type="text/javascript">    function  
showStudent(str){                var xhttp;                if(str==""){  
document.getElementById("shw").innerHTML = "";  
    return;  
    }  
    xhttp = new XMLHttpRequest();  
xhttp.open("GET","getdata.php?name="+str,true);
```

```
        xhttp.send();        xhttp.onreadystatechange=function(){
if(this.readyState==4 && this.status==200){
document.getElementById("shw").innerHTML = this.responseText;

        }

};
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h3>Welcome <?php echo $_SESSION['username'];?></h3>
```

```
<hr>
```

```
<p>Select name of student:</p>
```

```
<form>
```

```
    <select onchange="showStudent(this.value)">
```

```
<option value="">Select Student</option>
```

```
    <option value="santosh">Santosh</option>
```

```
    <option value="kunal">Kunal</option>
```

```
    <option value="sujit">Sujit</option>
```

```
</select>
```

```
</form>
```

```
<br>
```

```
<div id="shw"></div>

<br>

<form action="logout.php">

<input type="submit" name="sbt" value="Logout">

</form>

</body>

</html>
```

#### **getdata.php code:**

```
<?php

//include the database connection file require_once
'dbconnect.php'; session_start(); //Check
whether session is set or not

if(!isset($_SESSION['username'])) {
    header("location:login.php");
    exit;
}

$name= $_REQUEST["name"];

$sql = "SELECT *from student where username='$name'";
```

```

$result = mysqli_query($conn,$sql);

if(mysqli_num_rows($result)>0){

    echo "<table
border='1'><tr><td>ID</td><td>Username</td><td>Password</td><td>Firstnam
e</td><td>Lastname</td></tr>";    while($row=mysqli_fetch_assoc($result)){

        echo
"<tr><td>".$row['id']. "</td><td>".$row['username']. "</td><td>".$row['password'
]. "</td><td>".$row['firstname']. "</td><td>".$row['lastname']. "</td><td>";

    }

    echo "</table>";
}else{    echo "0
Results";

}

?>

```

### **register.sql code:**

```

-- phpMyAdmin SQL Dump
-- version 4.6.6deb5
-- https://www.phpmyadmin.net/
--
-- Host: localhost:3306
-- Generation Time: Mar 28, 2018 at 09:41 PM

```

-- Server version: 5.7.21-0ubuntu0.17.10.1

-- PHP Version: 7.1.15-0ubuntu0.17.10.1

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS  
\*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION  
\*/;

/\*!40101 SET NAMES utf8mb4 \*/;

--

-- Database: `register`

--

-----

--

-- Table structure for table `student`

--

```

CREATE TABLE `student` (
  `id` int(11) NOT NULL,
  `username` varchar(100) DEFAULT NULL,
  `password` varchar(100) DEFAULT NULL,
  `firstname` varchar(100) DEFAULT NULL,
  `lastname` varchar(100) DEFAULT NULL,
  `gender` char(100) DEFAULT NULL,
  `email` varchar(100) DEFAULT NULL,
  `course` char(100) DEFAULT NULL,
  `mobile` varchar(100) DEFAULT NULL
) ENGINE=InnoDB DEFAULT CHARSET=latin1; --

-- Dumping data for table `student`

--

INSERT INTO `student` (`id`, `username`, `password`, `firstname`, `lastname`,
`gender`, `email`, `course`, `mobile`) VALUES

(11, 'bhavesh', 'bhaveshmodi', 'Bhavesh', 'Modi', 'Male', 'bhavesh@gmail.com', 'SE
COMP', '998833223311'),

(12, 'santy4u', '123456', 'Santosh', 'Nagargoje', 'Male', 'santosh@gmail.com', 'SE
COMP', '889933223322');

--

-- Indexes for dumped tables

```

--

--

-- Indexes for table `student`

--

ALTER TABLE `student`

ADD PRIMARY KEY (`id`);

--

-- AUTO\_INCREMENT for dumped tables

--

--

-- AUTO\_INCREMENT for table `student`

--

ALTER TABLE `student`

MODIFY `id` int(11) NOT NULL AUTO\_INCREMENT, AUTO\_INCREMENT=13;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

**Output:**

## Index of /practical

Name	Last modified	Size	Description
Parent Directory	-	-	-
<a href="#">dbconnect.php</a>	2018-03-04 12:07	291	
<a href="#">login.php</a>	2018-03-04 12:35	1.3K	
<a href="#">register.php</a>	2018-03-04 12:23	2.4K	
<a href="#">welcome.php</a>	2018-03-04 12:35	24	

Apache/2.4.27 (Ubuntu) Server at localhost Port 80

Server: localhost:3306 Database: studentinfo Table: student

Browse Structure SQL Search Insert Export Import Privileges Operations Triggers

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	id	int(11)			No	None		AUTO_INCREMENT	<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
2	username	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
3	password	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
4	firstname	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
5	lastname	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
6	gender	text	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
7	email	varchar(255)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
8	course	varchar(100)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>
9	mobile	varchar(20)	latin1_swedish_ci		No	None			<a href="#">Change</a> <a href="#">Drop</a> <a href="#">Primary</a> <a href="#">Unique</a> <a href="#">More</a>

☐ Check all With selected: [Browse](#) [Change](#) [Drop](#) [Primary](#) [Unique](#) [Index](#)

[Print](#) [Propose table structure](#) [Move columns](#) [Improve table structure](#)

Add 1 column(s) after mobile [Go](#)



localhost/practical/

localhost/practical/register.php

### Student Registration Form

Username  
kumar

Password  
\*\*\*\*\*

Firstname  
Kumar

Lastname  
Sharma

Gender  
☒ Male ☐ Female

Email  
kumar@gmail.com

Course  
BE Computer

Mobile Number  
8899112233

Already Registered? [Sign In](#)

localhost says  
Your are registered successfully!!

Server: localhost:3306 » Database: studentinfo » Table: student

Showing rows 0 - 4 (5 total, Query took 0.0004 seconds.)

SELECT \* FROM `student`

Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]

Show all | Number of rows: 25 | Filter rows: Search this table | Sort by key: None

		Id	username	password	firstname	lastname	gender	email	course	mobile
<input type="checkbox"/>	Edit Copy Delete	1	santoshn22	ef5667331a2558206dce89d41ce4feb1	santosh	nagargoje	Male	santosh@gmail.com	SE Computer	770957637688
<input type="checkbox"/>	Edit Copy Delete	3	sunil	48ccc87cd7afb85704a63e8d5953d326	Sunil	Ranpise	Male	sunil@gmail.com	BE Computer	887722334455
<input type="checkbox"/>	Edit Copy Delete	4	santosh	ef5667331a2558206dce89d41ce4feb1	Santosh	Nagargoje	Male	santosh@gmail.com	BE Computer	917709576376
<input type="checkbox"/>	Edit Copy Delete	5	vivan	94cd6d3963687c23cb621b33dab0a45ee	Vivan	DDD	Male	sjddj@gmail.com	BE Computer	88992233442
<input type="checkbox"/>	Edit Copy Delete	6	kumar	kumar	Kumar	Sharma	Male	kumar@gmail.com	BE Computer	8899112233

Check all | With selected: Edit Copy Delete Export

← → ↻ 🏠 localhost/practical/login.php

---

### Student Login Form

---

Username

Password

Not Registered? [Sign Up](#)

← → ↻ 🏠 localhost/practical/welcome.php ☆

---

### Welcome santosh

---

Select name of student:

Select Student ▼

Select Student

Santosh

Kunal

Sujit

← → ↻ 🏠 localhost/practical/welcome.php ☆

---

### Welcome santosh

---

Select name of student:

Santosh ▼

ID	Username	Password	Firstname	Lastname
7	santosh	santosh123	Santosh	Santosh

## Conclusion:

We developed a dynamic web application using PHP, Ajax and MySQL as a backend with insert and view operations.