Experiment No.7

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Class: TE Comp.

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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 Lerdford 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 un 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*/</pre>
```

```
$conn = mysqli_connect(DB_SERVER,DB_USERNAME,DB_PASSWORD,DB_NAME);
if($conn===false){ die("Error:Could not Connect
".mysqli connect error());
}
?>
login.php code: <?php</pre>
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>";
    }
  }
           echo "<script>alert('All Fields should not be blank!!')</script>";
  else{
  }
}
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">
  Not Registered? <a href="register.php">Sign Up</a>
</form>
</body>
</html>
register.php code:
<?php require_once
'dbconnect.php';
$username=$password=$firstname=$lastname=$gender=$email=$course=$mobil
e="";
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>";
  }
           echo "<script>alert('Sorry!!
  else{
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>SE Computer
   <option>TE Computer
   <option>BE Computer
 </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">
 Already Registered? <a href="login.php">Sign In</a>
</form>
```

```
</body> </html> logout.php
code: <?php session_start();</pre>
session unset(); session destroy();
header("location:login.php")
;
exit; ?>
welcome.php code: <?php session_start();</pre>
if(!isset($_SESSION['username'])){    header("location:login.php");
  exit; }
?>
<!DOCTYPE html>
<html>
<head>
  <title>Welcome Page</title> <script type="text/javascript">
                                                                  function
showStudent(str){
                                                                if(str==""){
                                     var xhttp;
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>
Select name of student:
<form>
  <select onchange="showStudent(this.value)">
<option value="">Select Student</option>
    <option value="santosh">Santosh</option>
    <option value="kunal">Kunal
    <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'";
```

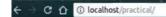
```
$result = mysqli_query($conn,$sql);
if(mysqli_num_rows($result)>0){
 echo "<table
border='1'>IDUsernamePasswordFirstnam
eLastname"; while($row=mysqli_fetch_assoc($result)){
   echo
"".$row['id']."".$row['username']."".$row['password'
]."".$row['firstname']."".$row['lastname']."";
 }
 echo "";
}else{
      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 */;
```

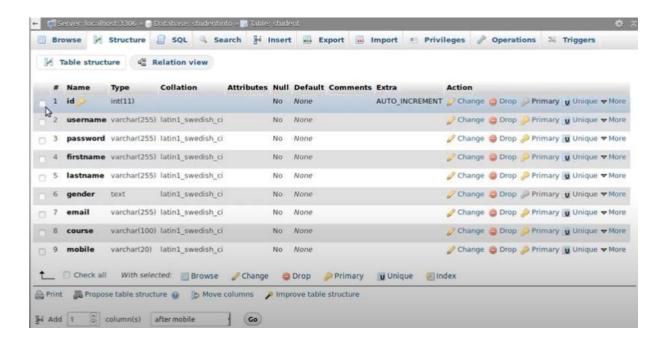
Output:

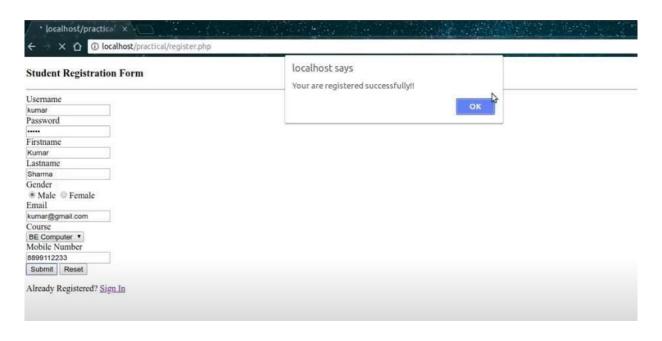


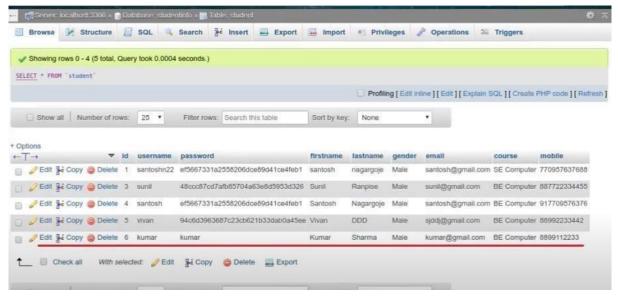
Index of /practical

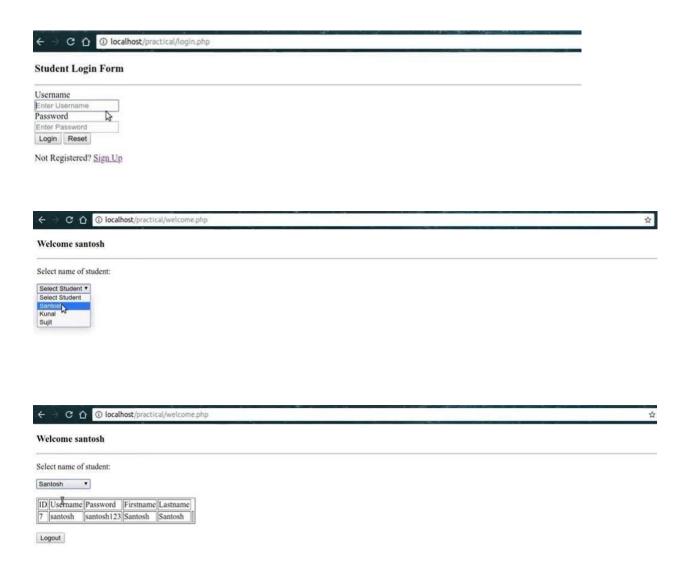
Name	Last modified	Size Description
Parent Directory		
? dbconnect.php	2018-03-04 12:07	291
? login.php	2018-03-04 12:35	1.3K
register.php	2018-03-04 12:23	2.4K
welcome.php	2018-03-04 12:35	24

Apache/2.4.27 (Ubuntu) Server at localhost Port 80









Conclusion:

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