Internet and Web Programming  
Lab Assignment 5

# Name: Om Ashish Mishra Registration Number: 16BCE0789

# Slot: E2

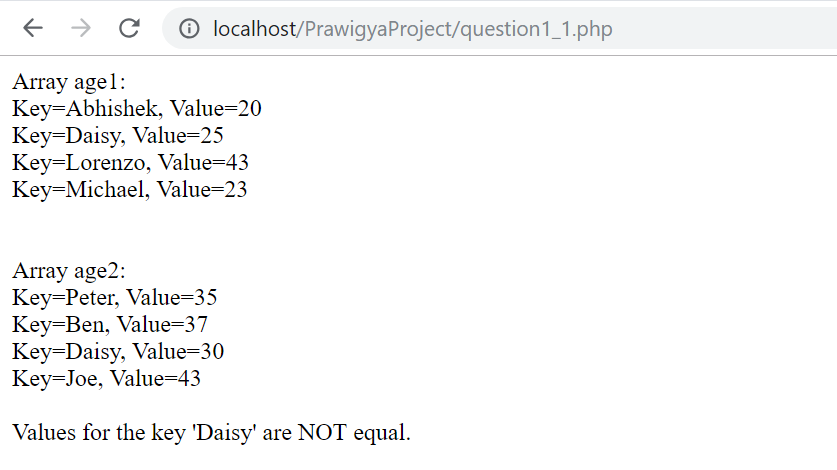
**Question 1**

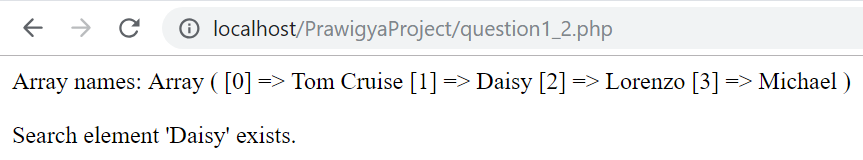
Perform the following operations in Array/Associative Array.

1. Compare two associative array elements whether they are equal.
2. Check whether an element present in an array or not.
3. Sort the array elements based on key
4. Display the elements present in an associative array in reverse order based on values.
5. Extract the portion of the array and display.
6. Replace the array elements with some other values.

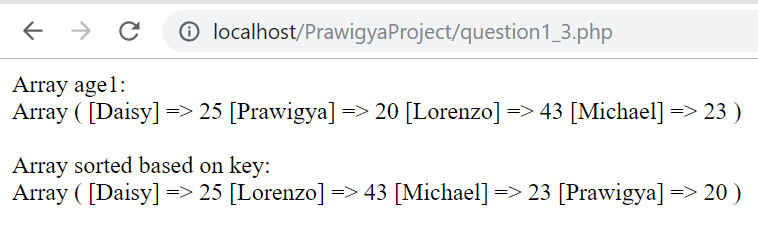
**Execution**

**(i)**

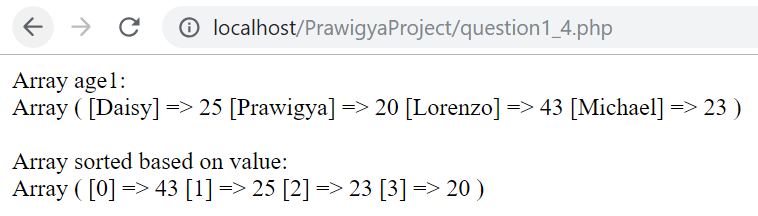


**(ii)**

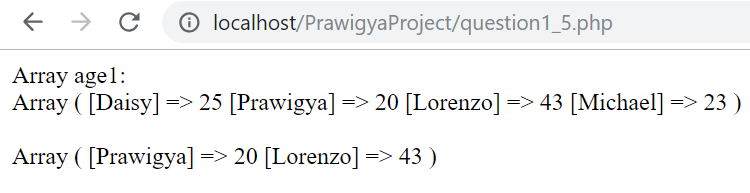
**(iii)**



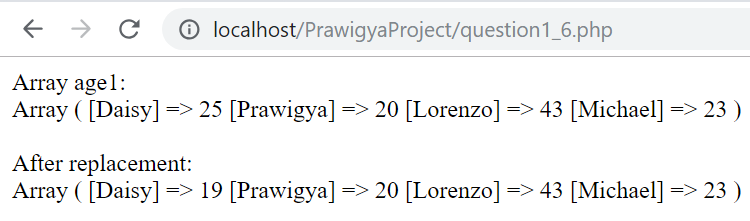
**(iv)**



**(v)**



**(vi)**



**Code**

**(i)**

<!DOCTYPE html>

<html>

<head>

<title>Q1 Array</title>

</head>

<body>

<?php

$age1 = array("Abhishek"=>"20", "Daisy"=>"25", "Lorenzo"=>"43", "Michael"=>"23");

$age2 = array("Peter"=>"35", "Ben"=>"37", "Daisy"=>"30", "Joe"=>"43");

echo "Array age1:";

echo "<br>";

foreach($age1 as $x => $x\_value) {

echo "Key=" . $x . ", Value=" . $x\_value;

echo "<br>";

}

echo "<br><br>";

echo "Array age2:";

echo "<br>";

foreach($age2 as $x => $x\_value) {

echo "Key=" . $x . ", Value=" . $x\_value;

echo "<br>";

}

echo "<br>";

if ($age1['Daisy']==$age2['Daisy'])

echo "Values for the key 'Daisy' are equal.";

else

echo "Values for the key 'Daisy' are NOT equal.";

?>

</body>

</html>

**(ii)**

<!DOCTYPE html>

<html>

<head>

<title>Q2 Array</title>

</head>

<body>

<?php

$names = array("Abhishek", "Daisy", "Lorenzo", "Michael");

echo "Array names: ";

print\_r($names);

echo "<br><br>";

$key= "Daisy";

if (in\_array($key, $names))

echo "Search element 'Daisy' exists.";

else

echo "Search element 'Daisy' doesn't exists.";

?>

</body>

</html>

**(iii)**

<!DOCTYPE html>

<html>

<head>

<title>Q3 Array</title>

</head>

<body>

<?php

$age1 = array("Daisy"=>"25", "Abhishek"=>"20", "Lorenzo"=>"43", "Michael"=>"23");

echo "Array age1: ";

echo "<br>";

print\_r($age1);

echo "<br><br>";

ksort($age1);

echo "Array sorted based on key: <br>";

print\_r($age1);

?>

</body>

</html>

**(iv)**

<!DOCTYPE html>

<html>

<head>

<title>Q4 Array</title>

</head>

<body>

<?php

$age1 = array("Daisy"=>"25", "Abhishek"=>"20", "Lorenzo"=>"43", "Michael"=>"23");

echo "Array age1: ";

echo "<br>";

print\_r($age1);

echo "<br><br>";

rsort($age1);

echo "Array sorted based on value: <br>";

print\_r($age1);

?>

</body>

</html>

**(v)**

<!DOCTYPE html>

<html>

<head>

<title>Q5 Array</title>

</head>

<body>

<?php

$age1 = array("Daisy"=>"25", "Abhishek"=>"20", "Lorenzo"=>"43", "Michael"=>"23");

echo "Array age1: ";

echo "<br>";

print\_r($age1);

echo "<br><br>";

print\_r(array\_slice($age1,1,2));

?>

</body>

</html>

**(vi)**

<!DOCTYPE html>

<html>

<head>

<title>Q5 Array</title>

</head>

<body>

<?php

$age1 = array("Daisy"=>"25", "Abhishek"=>"20", "Lorenzo"=>"43", "Michael"=>"23");

echo "Array age1: ";

echo "<br>";

print\_r($age1);

echo "<br><br>";

$search=$age1['Daisy'];

$newval="19";

echo "After replacement: <br>";

print\_r(str\_replace($search,$newval,$age1));

?>

</body>

</html>

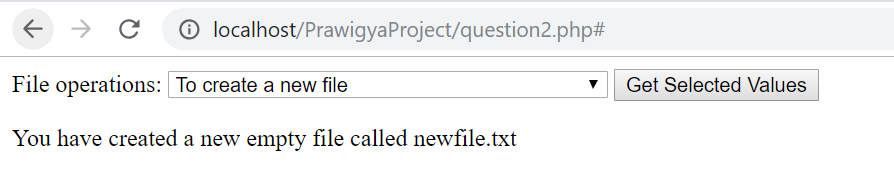
**Question 2**

Write a Menu driven program in PHP to perform various file operations listed below based on the option chosen by the user in a simple HTML form.

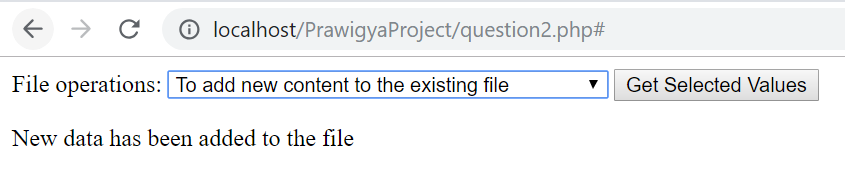
1. To create a new file
2. To read the content from the file and display .
3. To add new content to the existing file.
4. Copy the content from one file to another
5. To delete the file.

**Execution**

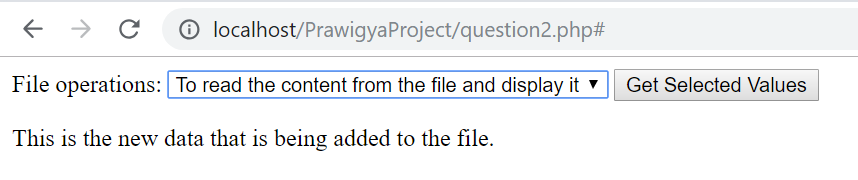
**Creating a new file**



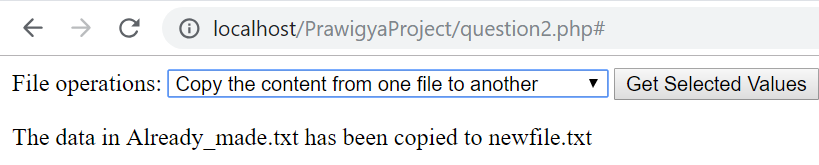
**Adding content to the file**

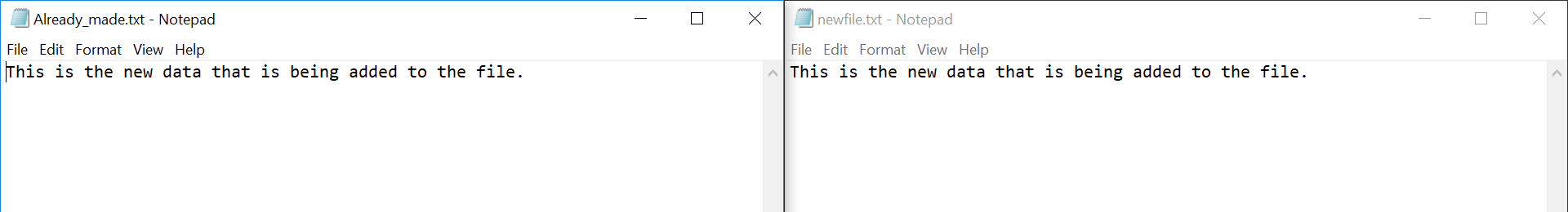


**Reading the content from the file and displaying it**

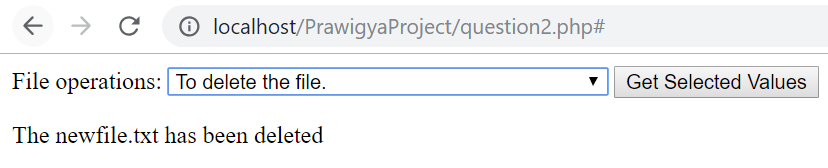


**Copying the file to another file**



**The files newfile.txt and Already\_Made.txt**

**Deleting the file**



**Code**

<html>

<body>

<form action="#" method="post" >

File operations:

<select name="file\_operations">

<option value="Create\_file">To create a new file</option>

<option value="Read\_content">To read the content from the file and display it </option>

<option value="Add\_content">To add new content to the existing file</option>

<option value="Copy\_content">Copy the content from one file to another</option>

<option value="Delete\_file">To delete the file.</option>

</select>

<input type="submit" name="submit" value="Get Selected Values" />

</form>

<?php

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

{

$selected\_val = $\_POST['file\_operations']; // Storing Selected Value In Variable

if($selected\_val == "Create\_file")

{

$myfile = fopen("newfile.txt", "w");

echo "You have created a new empty file called newfile.txt";

fclose($myfile);

}

elseif ($selected\_val == "Read\_content")

{

$myfile = fopen("Already\_made.txt", "r") or die("Unable to open file!");

echo fread($myfile,filesize("Already\_made.txt"));

fclose($myfile);

}

elseif ($selected\_val == "Add\_content")

{

$my\_file = "Already\_made.txt";

$handle = fopen($my\_file, 'a') or die('Cannot open file: '.$my\_file);

$data = "This is the new data that is being added to the file.";

fwrite($handle, $data);

echo "New data has been added to the file";

}

elseif ($selected\_val == "Copy\_content")

{

copy("Already\_made.txt","newfile.txt");

echo "The data in Already\_made.txt has been copied to newfile.txt";

}

else

{

$my\_file="newfile.txt";

unlink($my\_file);

echo "The newfile.txt has been deleted";

}

}

?>

</body>

</html>

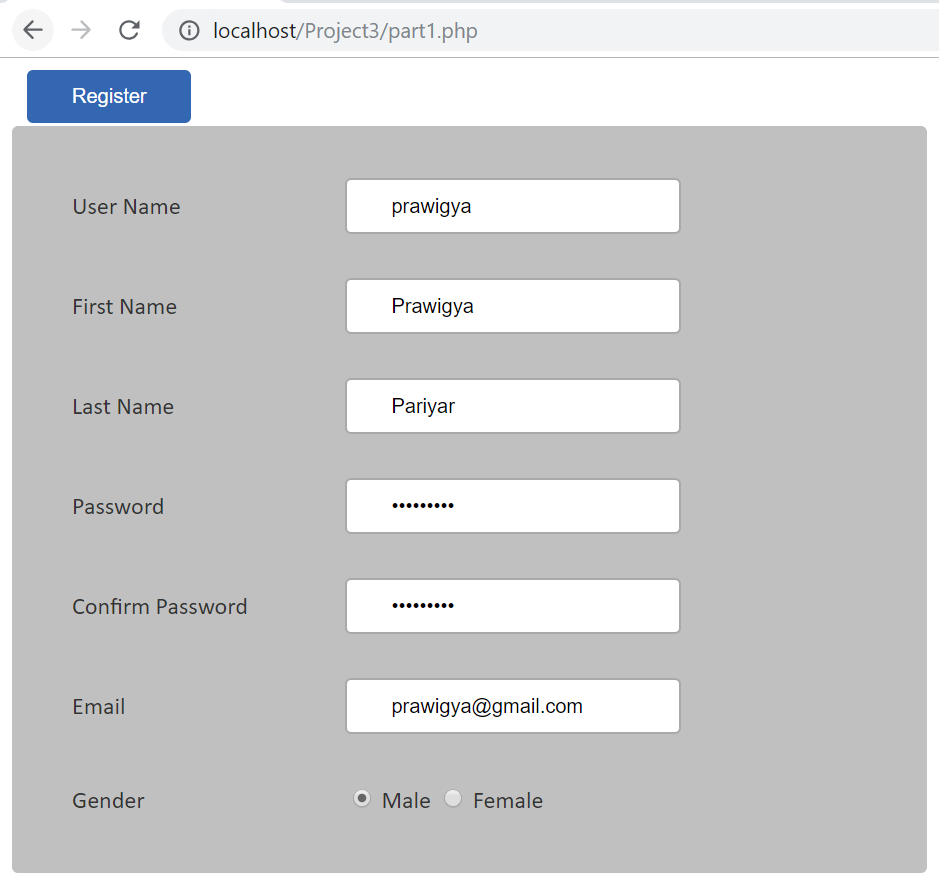
**Question 3**

(i) Develop the User Registration form where the user submits his personal details (UserName, FirstName, LastName, password, Confirm Password, Email and Gender). On submitting this form, these fields have to be validated in server side using PHP . After successful validation insert this registration data into the database table.

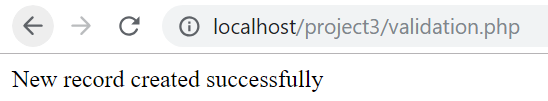
(ii) Retrieve the data from MySQL database and display in web form.

**Execution**

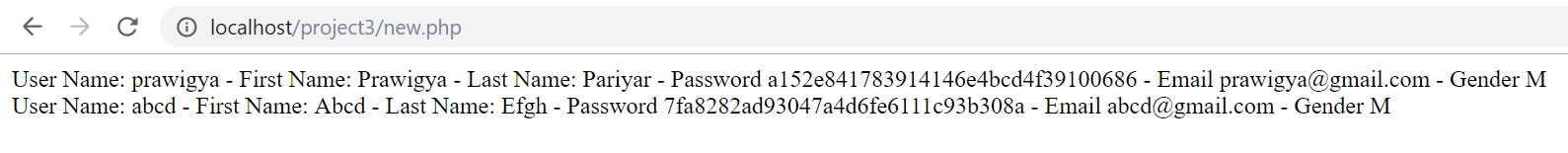
**Entering the details into the form**



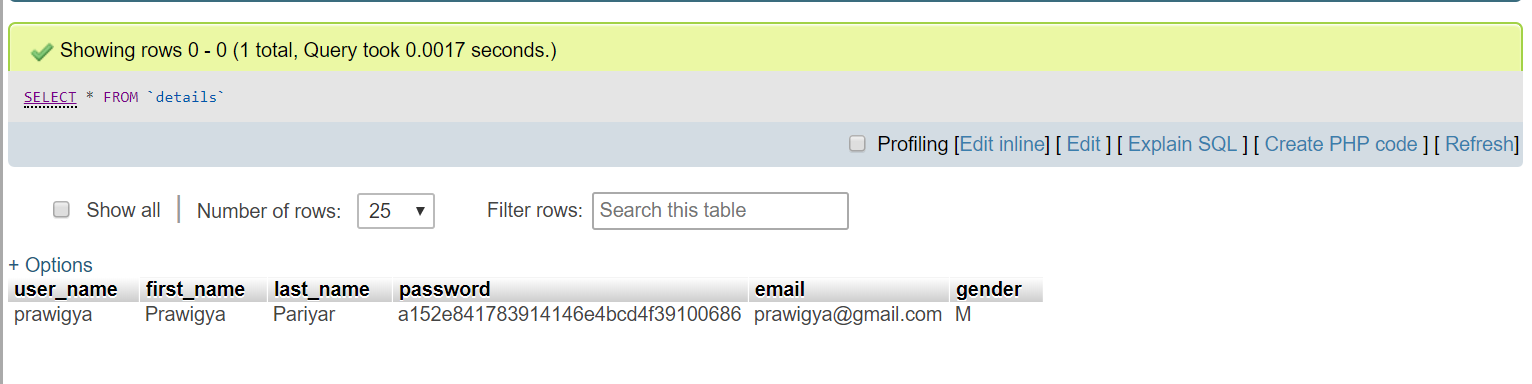
**(i) Record Created Successfully**



**(ii) Displaying the data**



**Database**



**Code**

**Part (i)**

**File: part1.php**

<html>

<head>

<title>PHP User Registration Form</title>

<style>

body{

width:610px;

font-family:calibri;

}

.error-message {

padding: 7px 10px;

background: red;

border: #ffd5da 1px solid;

color: #d6001c;

border-radius: 4px;

}

.success-message {

padding: 7px 10px;

background: grey;

border: #c3d0b5 1px solid;

color: #027506;

border-radius: 4px;

}

.demo-table {

background: tomato;

width: 100%;

border-spacing: initial;

margin: 2px 0px;

word-break: break-word;

table-layout: auto;

line-height: 1.8em;

color: #333;

border-radius: 4px;

padding: 20px 40px;

}

.demo-table td {

padding: 15px 0px;

}

.demoInputBox {

padding: 10px 30px;

border: #a9a9a9 1px solid;

border-radius: 4px;

}

.btnRegister {

padding: 10px 30px;

background-color: #3367b2;

border: 0;

color: #FFF;

cursor: pointer;

border-radius: 4px;

margin-left: 10px;

}

</style>

</head>

<body>

<form name="frmRegistration" method="post" action="validation.php">

<table border="0" width="500" align="center" class="demo-table">

<?php if(!empty($success\_message)) { ?>

<div class="success-message"><?php if(isset($success\_message)) echo $success\_message; ?></div>

<?php } ?>

<?php if(!empty($error\_message)) { ?>

<div class="error-message"><?php if(isset($error\_message)) echo $error\_message; ?></div>

<?php } ?>

<tr>

<td>User Name</td>

<td><input type="text" class="demoInputBox" name="userName" value="<?php if(isset($\_POST['userName'])) echo $\_POST['userName']; ?>"></td>

</tr>

<tr>

<td>First Name</td>

<td><input type="text" class="demoInputBox" name="firstName" value="<?php if(isset($\_POST['firstName'])) echo $\_POST['firstName']; ?>"></td>

</tr>

<tr>

<td>Last Name</td>

<td><input type="text" class="demoInputBox" name="lastName" value="<?php if(isset($\_POST['lastName'])) echo $\_POST['lastName']; ?>"></td>

</tr>

<tr>

<td>Password</td>

<td><input type="password" class="demoInputBox" name="password" value=""></td>

</tr>

<tr>

<td>Confirm Password</td>

<td><input type="password" class="demoInputBox" name="confirm\_password" value=""></td>

</tr>

<tr>

<td>Email</td>

<td><input type="text" class="demoInputBox" name="userEmail" value="<?php if(isset($\_POST['userEmail'])) echo $\_POST['userEmail']; ?>"></td>

</tr>

<tr>

<td>Gender</td>

<td><input type="radio" name="gender" value="M" <?php if(isset($\_POST['gender']) && $\_POST['gender']=="Male") { ?>checked<?php } ?>> Male

<input type="radio" name="gender" value="F" <?php if(isset($\_POST['gender']) && $\_POST['gender']=="Female") { ?>checked<?php } ?>> Female

</td>

</tr>

<tr>

<input type="submit" name="register-user" value="Register" class="btnRegister"></td>

</tr>

</table>

</form>

</body>

</html>

**File : validation.php**

<?php

if(!empty($\_POST["register-user"])) {

/\* Form Required Field Validation \*/

foreach($\_POST as $key=>$value) {

if(empty($\_POST[$key])) {

$error\_message = "All Fields are required";

break;

}

}

/\* Password Matching Validation \*/

if($\_POST['password'] != $\_POST['confirm\_password']){

$error\_message = 'Passwords should be same<br>';

}

/\* Email Validation \*/

if(!isset($error\_message)) {

if (!filter\_var($\_POST["userEmail"], FILTER\_VALIDATE\_EMAIL)) {

$error\_message = "Invalid Email Address";

}

}

/\* Validation to check if gender is selected \*/

if(!isset($error\_message)) {

if(!isset($\_POST["gender"])) {

$error\_message = " All Fields are required";

}

}

}

$servername = "localhost";

$username = "root";

$password = "";

$dbname="question3";

// Create connection

$conn = new mysqli($servername, $username, $password,$dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "INSERT INTO details (user\_name, first\_name, last\_name, password, email, gender) VALUES

('" . $\_POST["userName"] . "', '" . $\_POST["firstName"] . "', '" . $\_POST["lastName"] . "', '" . md5($\_POST["password"]) . "', '" . $\_POST["userEmail"] . "', '" . $\_POST["gender"] . "')";

if ($conn->query($sql) === TRUE) {

echo "New record created successfully";

} else {

echo "Error: " . $sql . "<br>" . $conn->error;

}

?>

**Part (ii)**

<?php

$servername = "localhost";

$username = "root";

$password = "";

$dbname="question3";

// Create connection

$conn = new mysqli($servername, $username, $password,$dbname);

// Check connection

if ($conn->connect\_error) {

die("Connection failed: " . $conn->connect\_error);

}

$sql = "SELECT user\_name, first\_name, last\_name, password, email, gender FROM details";

$result = $conn->query($sql);

if ($result->num\_rows > 0) {

// output data of each row

while($row = $result->fetch\_assoc()) {

echo "User Name: " . $row["user\_name"]. " - First Name: " . $row["first\_name"]." - Last Name: " . $row["last\_name"]. " - Password " .$row["password"]." - Email " .$row["email"]." - Gender " .$row["gender"]."<br>";

}

} else {

echo "0 results";

}

$conn->close();

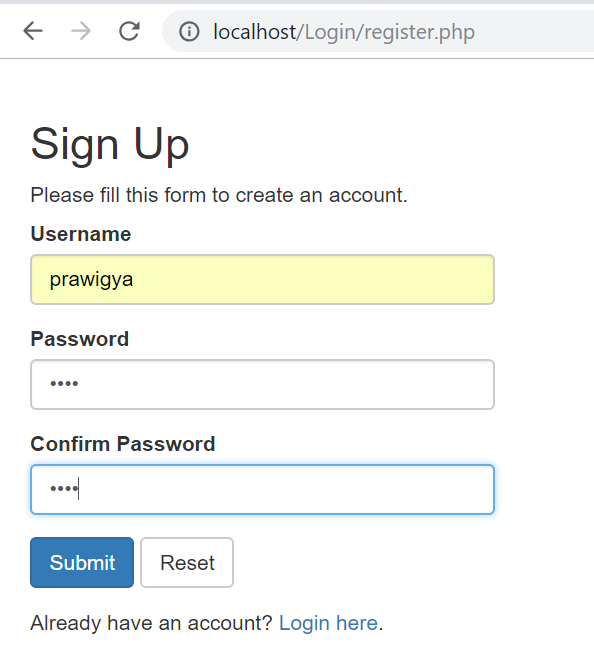
?>

**Question 4**

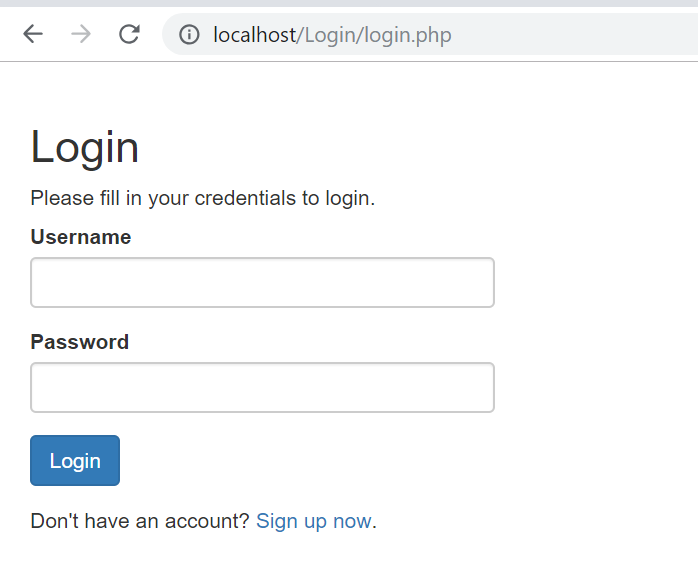
Create Simple Login and Logout form using Session Id cookies in PHP.

**Execution**

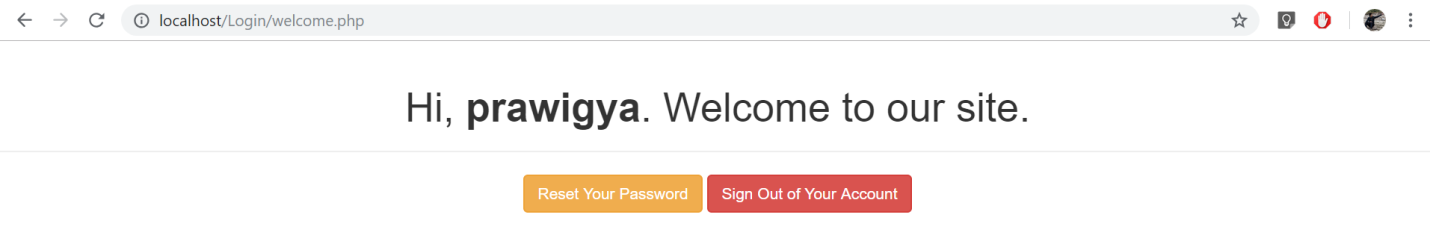
**Registering**



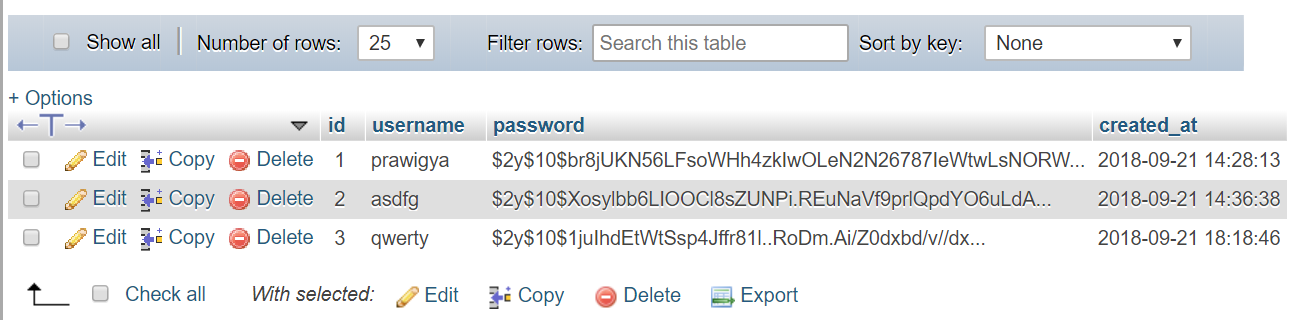
**Logging in**



**Login Successful**



**Database**



**Code**

**Creating the Table**

CREATE TABLE users (id INT NOT NULL PRIMARY KEY AUTO\_INCREMENT, username VARCHAR(50) NOT NULL UNIQUE, password VARCHAR(255) NOT NULL, created\_at DATETIME DEFAULT CURRENT\_TIMESTAMP);

**Creating the Config File**

<?php

/\* Database credentials. Assuming you are running MySQL

server with default setting (user 'root' with no password) \*/

define('DB\_SERVER', 'localhost');

define('DB\_USERNAME', 'root');

define('DB\_PASSWORD', '');

define('DB\_NAME', 'demo');

/\* Attempt to connect to MySQL database \*/

$link = mysqli\_connect(DB\_SERVER, DB\_USERNAME, DB\_PASSWORD, DB\_NAME);

// Check connection

if($link === false){

die("ERROR: Could not connect. " . mysqli\_connect\_error());

}

?>

**Creating the Register Page**

<?php

// Include config file

require\_once "config.php";

// Define variables and initialize with empty values

$username = $password = $confirm\_password = "";

$username\_err = $password\_err = $confirm\_password\_err = "";

// Processing form data when form is submitted

if($\_SERVER["REQUEST\_METHOD"] == "POST"){

// Validate username

if(empty(trim($\_POST["username"]))){

$username\_err = "Please enter a username.";

} else{

// Prepare a select statement

$sql = "SELECT id FROM users WHERE username = ?";

if($stmt = mysqli\_prepare($link, $sql)){

// Bind variables to the prepared statement as parameters

mysqli\_stmt\_bind\_param($stmt, "s", $param\_username);

// Set parameters

$param\_username = trim($\_POST["username"]);

// Attempt to execute the prepared statement

if(mysqli\_stmt\_execute($stmt)){

/\* store result \*/

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.";

}

}

// Close statement

mysqli\_stmt\_close($stmt);

}

// Validate password

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"]);

}

// Validate confirm 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.";

}

}

// Check input errors before inserting in database

if(empty($username\_err) && empty($password\_err) && empty($confirm\_password\_err)){

// Prepare an insert statement

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

if($stmt = mysqli\_prepare($link, $sql)){

// Bind variables to the prepared statement as parameters

mysqli\_stmt\_bind\_param($stmt, "ss", $param\_username, $param\_password);

// Set parameters

$param\_username = $username;

$param\_password = password\_hash($password, PASSWORD\_DEFAULT); // Creates a password hash

// Attempt to execute the prepared statement

if(mysqli\_stmt\_execute($stmt)){

// Redirect to login page

header("location: login.php");

} else{

echo "Something went wrong. Please try again later.";

}

}

// Close statement

mysqli\_stmt\_close($stmt);

}

// Close connection

mysqli\_close($link);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Sign Up</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">

<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"]); ?>" method="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>

**Creating the Login System**

<?php

// Include config file

require\_once "config.php";

// Define variables and initialize with empty values

$username = $password = $confirm\_password = "";

$username\_err = $password\_err = $confirm\_password\_err = "";

// Processing form data when form is submitted

if($\_SERVER["REQUEST\_METHOD"] == "POST"){

// Validate username

if(empty(trim($\_POST["username"]))){

$username\_err = "Please enter a username.";

} else{

// Prepare a select statement

$sql = "SELECT id FROM users WHERE username = ?";

if($stmt = mysqli\_prepare($link, $sql)){

// Bind variables to the prepared statement as parameters

mysqli\_stmt\_bind\_param($stmt, "s", $param\_username);

// Set parameters

$param\_username = trim($\_POST["username"]);

// Attempt to execute the prepared statement

if(mysqli\_stmt\_execute($stmt)){

/\* store result \*/

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.";

}

}

// Close statement

mysqli\_stmt\_close($stmt);

}

// Validate password

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"]);

}

// Validate confirm 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.";

}

}

// Check input errors before inserting in database

if(empty($username\_err) && empty($password\_err) && empty($confirm\_password\_err)){

// Prepare an insert statement

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

if($stmt = mysqli\_prepare($link, $sql)){

// Bind variables to the prepared statement as parameters

mysqli\_stmt\_bind\_param($stmt, "ss", $param\_username, $param\_password);

// Set parameters

$param\_username = $username;

$param\_password = password\_hash($password, PASSWORD\_DEFAULT); // Creates a password hash

// Attempt to execute the prepared statement

if(mysqli\_stmt\_execute($stmt)){

// Redirect to login page

header("location: login.php");

} else{

echo "Something went wrong. Please try again later.";

}

}

// Close statement

mysqli\_stmt\_close($stmt);

}

// Close connection

mysqli\_close($link);

}

?>

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Sign Up</title>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">

<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"]); ?>" method="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>

**Creating the Welcome Page**

<?php

// Initialize the session

session\_start();

// Check if the user is logged in, if not then redirect him to login page

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>

<link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/3.3.7/css/bootstrap.css">

<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>

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

</p>

</body>

</html>



