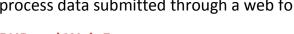
# **Working with Forms**

PHP introduces the most common ways in which user can use PHP to interact with the user, web forms. In total, we'll show you how to use PHP and web forms to carry out the following tasks:

- Pass data from a form to a PHP script
- Validate form data
- Work with multi-valued form components

Introduction to how PHP is able to accept and process data submitted through a web form.



#### **PHP and Web Forms**

One of the most powerful features of PHP is the way it handles HTML forms. There are two regular methods for sending data from one script to another script, GET and POST. Although GET is the default, POST method will is capable of handling more data than GET. An important characteristic is, when you're using forms to insert and modify large blocks of text. If you use POST, any posted data sent to a PHP script must be referenced using the \$\_POST.

## Example

```
<html>
<body>
<form method= "get" action= "<?php echo $_SERVER['PHP_SELF'];?>">
  Name: <input type= "text" name= "firstname">
  <input type= "submit" value= "submit">
  </form>

<?php
if ($_SERVER["REQUEST_METHOD"] == "GET") {
  $fname = $_GET['firstname'];
  if (empty($fname)) {
    echo "Name is empty";
  } else {
    echo $fname;</pre>
```

```
?>
</body>
</html>
Example 2
<html>
<body>
<form action="read.php" method="get">
Full Name: <input type="text" name="name"><br>
Mobile Number: <input type="text" name="number"><br>
<input type="submit">
</form>
</body>
</html>
read.php
<html>
<body>
Hi <?php echo $ GET["name"]; ?><br>
Your mobile number: <?php echo $_GET["number"]; ?>
</body>
</html>
Output:
```

Hi Sakshi Education

Your mobile number 9642000000.

## Get vs Post

- Both GET and POST create an array and the arrays carry key and value pairs, here keys are the names of the form inputs and values are data passed by the user.
- Both GET and POST are super global variables, so we can use them anywhere of our program, in any class.
- In GET method, it uses URL to pass the values and keys.

Where as in POST method it uses HTTP Post method to send the data.

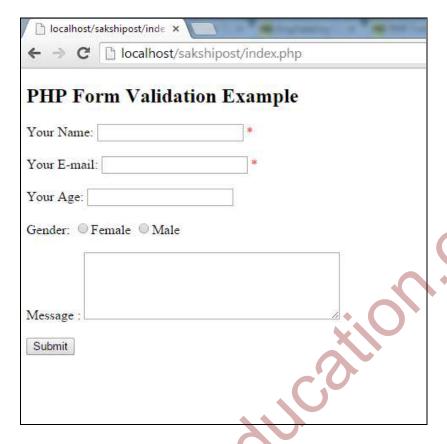
#### **PHP Form Validation**

The HTML form we will be working with various input fields some of them are required and some are optional text fields, radio buttons and a submit button.

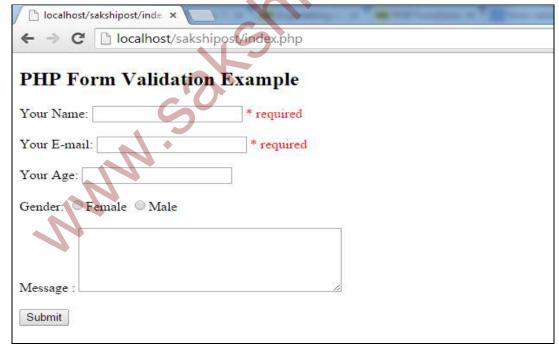
## Example

```
<!DOCTYPE HTML>
<html>
<head>
</head>
<body>
<?php
// define and initialize variables and set them to empty
$name =";
$email =";
$gender =";
$age=";
$namemsg= ";
$emailmsg= ";
if ($ SERVER["REQUEST METHOD"] == "POST") {
 $name = $ POST["name"];
 $email =$_POST["email"];
 $age = $ POST["age"];
 $message = $_POST["message"];
 $gender = $ POST["gender"];
  if($name == ''){
   $namemsg = "required";
 if($email == "){
    $emailmsg = "required";
<h2>PHP Form Validation Example</h2>
<form method="post" action="<?php echo</pre>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
```

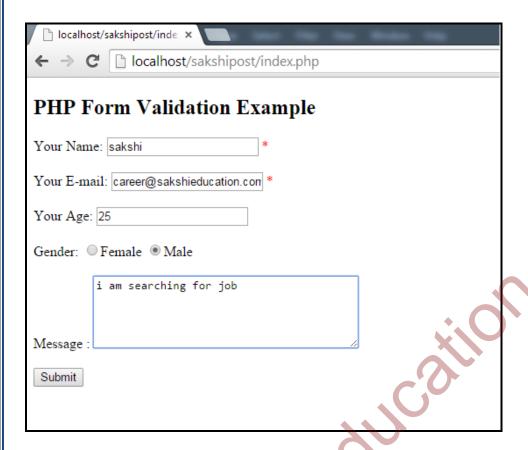
```
Your Name: <input type="text" name="name"> <span style="color:red;">* <?php
echo $namemsg; ?></span><br/>><br/>
Your E-mail: <input type="text" name="email"> <span style="color:red;">* <?php
echo $emailmsg; ?></span><br/><br/>
Your Age: <input type="text" name="age"><br/><br/>
Gender:
<input type="radio" name="gender" value="female">Female
<input type="radio" name="gender" value="male">Male<br/><br/>
Message: <textarea name="message" rows="5" cols="40"></textarea><br/>
br/>
<input type="submit" name="submit" value="Submit">
</form>
<?php
if($name != " || $email != ") {
  echo "<h2>Details you entered:</h2>";
  echo $name;
  echo "<br>";
  echo $email;
  echo "<br>";
  echo $age;
  echo "<br>";
  echo $gender;
  echo "<br>";
  echo $message;
</body>
</html>
```



In above program Name and Email id are required if you click on submit without entering name and email id you will get error message show in the below figure...

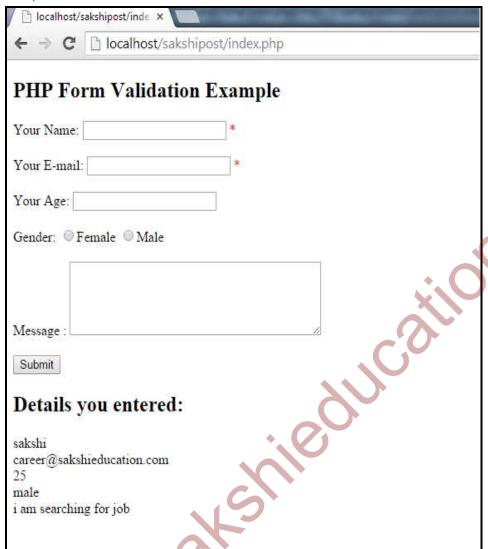


Entering all the details shown in the following diagram and click on submit button



After entering all the required details, click the submit button then you get the output as shown in below figure.

## Output



## PHP - Required Fields

In the above program, we have Name and Email Id fields and remaining fields are optional. By using PHP we can define required fields.

## Example

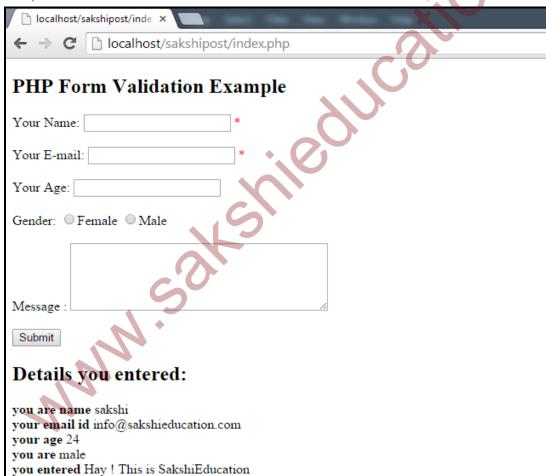
```
<!DOCTYPE HTML>
<html>
<head>
</head>
<body>
<?php

// define and initialize variables and set them to empty
$name_err = ";
$email_err = ";
$gender err = ";
```

```
if ($_SERVER["REQUEST_METHOD"] == "POST") {
 if (empty($_POST["name"])) {
    $name = $_POST["name"];
 if (empty($_POST["email"])) {
 } else {
    $email = $_POST["email"];
 if (empty($ POST["age"])) {
 } else {
   $age= $_POST["age"];
 if (empty($_POST["message"])) {
 } else {
    $message = $_POST["message"];
 if (empty($_POST["gender"])) {
 } else {
    $gender = $_POST["gender"];
<h2>PHP Form Validation Example</h2>
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
Your Name: <input type="text" name="name"> <span style="color:red;">* <?php echo $name_err;
?></span><br/><br/>
Your E-mail: <input type="text" name="email"> <span style="color:red;">* <?php echo $email_err;
?></span><br/><br/>>
Your Age: <input type="text" name="age"><br/><br/>>
<input type="radio" name="gender" value="female">Female
<input type="radio" name="gender" value="male">Male<br/>><br/>
Message: <textarea name="message" rows="5" cols="40"></textarea><br/>br/>
<input type="submit" name="submit" value="Submit">
</form>
if($name != " || $email != ") {
```

```
echo "<h2>Details you entered:</h2>";
echo "<b>you are name</b>".$name;
echo "<br/>
echo "<br/>
"<br/>
*/body>
</html>
```

#### Output



If you enter Name as Sakshi, email id as *info@sakshieducation.com*, age as 24, gender as male and message as "Hay !This is SakshiEducation", then the output will be shown in the above example.

#### **Email-validation**

Regular expressions are nothing but a sequence or pattern of characters. They give us the strength of pattern-matching functionality.

For Email validation or for Name validation or for Url validation or for any pattern validation we use Regular expression in PHP.

```
<!DOCTYPE HTML>
<html>
<head>
   <style>
       .error {color: red;}
   </style>
</head>
<body>
<?php
    if (empty($_POST["name"])) {
    if (empty($_POST["email"])) {
    } else {
    if (empty($_POST["message"])) {
    } else {
    if (empty($_POST["gender"])) {
```

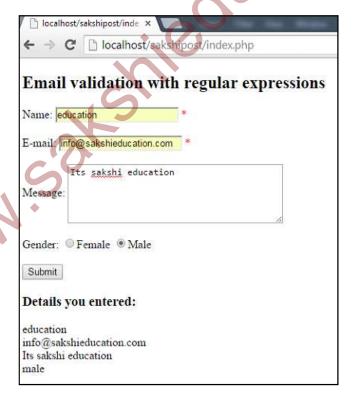
```
} else {
<h2>Email validation with regular expressions</h2>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
   Name: <input type="text" name="name">
   <span class="error">* <?php echo $name_err;?></span>
   <br><br><
   E-mail: <input type="text" name="email">
   <span class="error">* <?php echo $email_err;?></span>
   <br><br><br>>
   Message: <textarea name="message" rows="5" cols="40"
style="vertical-align: middle;"></textarea>
   <br><br><
   <input type="radio" name="gender" value="female">Female
   <input type="radio" name="gender" value="male">Male
    <br><br><br>>
    <input type="submit" name="submit" value="Submit">
</form>
if(empty($email_err) && empty($name_err)) {
</body>
```

## Output



In above example Name and Email id are required fields and Name will take characters and spaces where as email will be validated only with mail format. Ex: <a href="mailto:info@sakshieducation.com">info@sakshieducation.com</a>.

If you enter wrongly it will ask you to enter valid details.



If you enter all the details correctly then you will get the output as follows:

To validate URL that is a website link then use the following code as like email



 $\label{eq:condition} $\website = $_POST["website"]); if (!preg_match("/\b(?:(?:https?|ftp):\/\/|www\.)[-a-z0-9+&@#\/%?=~_|!:,.;]*[-a-z0-9+&@#\/%=~_|]/i",$website) { $website_err = "Invalid Website/url";}$ 

If you want to place the values in the form after submitting then use the following program.

```
if (empty($_POST["name"])) {
    } else {
        if (!preg_match("/^[a-zA-Z ]*$/",$name)) {
    if (empty($_POST["email"])) {
    } else {
    if (empty($_POST["message"])) {
    } else {
    if (empty($_POST["gender"])) {
<h2>Keep the values in the form</h2>
<form method="post" action="<?php echo</pre>
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    Name: <input type="text" name="name" value="<?php echo $name;?>">
    <span class="error">* <?php echo $name_err;?></span>
    <br><br><br>></pr>
    E-mail: <input type="text" name="email" value="<?php echo
    <span class="error">* <?php echo $email_err;?></span>
    <br><br><br>>
   Message: <textarea name="message" rows="5" cols="40"
style="vertical-align: middle;" >
        <?php echo $message;?>
    </textarea>
    <br><br><br>>
    Gender:
    <input type="radio" name="gender" <?php if (isset($gender) &&</pre>
$gender=="female") echo "checked";?> value="female">Female
    <input type="radio" name="gender" <?php if (isset($gender) &&</pre>
```

## Output



## Keep the values in the form



#### Details you entered:

sakshi info@sakshieducation.com This is sakshi male