



# Create and Validate form

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## Get method

Get method sends the encoded user information appended to page URL

Eg

<http://www.test.com/index.htm?name1=value1&name2=value2>

- GET method produces long string that appears in your server logs
- GET method is restricted to 1024 characters only
- Never use GET for sensitive data
- GET cannot send binary data
- PHP provides \$\_GET associative array to access all the sent information

```
<?php
if( $_GET["name"] || $_GET["age"] ) {
    echo "Welcome ". $_GET['name']. "<br />";
    echo "You are ". $_GET['age']. " years old.";

    exit();
}
?>
<html>
<body>

    <form action = "<?php $_PHP_SELF ?>" method = "GET">
        Name: <input type = "text" name = "name" />
        Age: <input type = "text" name = "age" />
        <input type = "submit" />
    </form>

</body>
</html>
```

# The POST Method

The POST method transfers information via HTTP headers. The information is encoded as described in case of GET method and put into a header called QUERY\_STRING.

- The POST method does not have any restriction on data size to be sent.
- The POST method can be used to send ASCII as well as binary data.
- The data sent by POST method goes through HTTP header so security depends on HTTP protocol. By using Secure HTTP you can make sure that your information is secure.
- The PHP provides **\$\_POST** associative array to access all the sent information using POST method.

```
<?php
if( $_POST["name"] || $_POST["age"] ) {
    if (preg_match("/^[^A-Za-z'-]"/,$_POST['name'] )) {
        die ("invalid name and name should be alpha");
    }
    echo "Welcome ". $_POST['name']. "<br />";
    echo "You are ". $_POST['age']. " years old.";

    exit();
}
?>
<html>
<body>

<form action = "<?php $_PHP_SELF ?>" method = "POST">
    Name: <input type = "text" name = "name" />
    Age: <input type = "text" name = "age" />
    <input type = "submit" />
</form>

</body>
</html>
```

## Form Controls

### Text Box

```
<label for="fname">First name:</label>
<input type="text" id="fname" name="fname">
```

### Text Area

```
<label for="w3review">Review of W3Schools:</label>
```

```
<textarea id="w3review" name="w3review" rows="4" cols="50">
```

```
At w3schools.com you will learn how to make a website. They offer free tutorials in all web development technologies.
</textarea>
```

## Radio Button

```
<input type="radio" id="html" name="fav_language" value="HTML">
```

```
<label for="html">HTML</label><br>
```

```
<input type="radio" id="css" name="fav_language" value="CSS">
```

```
<label for="css">CSS</label><br>
```

```
<input type="radio" id="javascript" name="fav_language" value="JavaScript">
```

```
<label for="javascript">JavaScript</label>
```

## Check Box

```
<input type="checkbox" id="vehicle1" name="vehicle1" value="Bike">
```

```
<label for="vehicle1"> I have a bike</label><br>
```

```
<input type="checkbox" id="vehicle2" name="vehicle2" value="Car">
```

```
<label for="vehicle2"> I have a car</label><br>
```

```
<input type="checkbox" id="vehicle3" name="vehicle3" value="Boat">
```

```
<label for="vehicle3"> I have a boat</label><br>
```

## List

```
<form action="/action_page.php" method="get">
```

```
<label for="browser">Choose your browser from the list:</label>
```

```
<input list="browsers" name="browser" id="browser">
```

```
<datalist id="browsers">
```

```
<option value="Edge">
```

```
<option value="Firefox">
```

```
<option value="Chrome">
```

```
<option value="Opera">
```

```
<option value="Safari">
```

```
</datalist>
```

```
<input type="submit">
```

```
</form>
```

## Button

```
<input type="button" value="Click me">
```

# PHP Page with multiple form

PHP allows us to use multiple forms but their submit buttons name must be different

```
<?php
    if(isset($_POST['sub1'])){
        echo "Form 1 Submitted...!!<br>Value is : ";
        echo $_POST['name'];
    }

    if(isset($_POST['sub2'])){
        echo "Form 2 Submitted...!!<br>Value is : ";
        echo $_POST['age'];
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Multiple Forms</title>
</head>
<body>
    <h1>Form 1</h1>
    <form action="multforms.php" method="post">
        <input type="text" name="name" placeholder="Enter name" id="name">
        <input type="submit" name="sub1" value="Submit">
        <!-- This Names are different -->
    </form>
    <br><br><br>
    <h1>Form 2</h1>
    <form action="multforms.php" method="post">
        <input type="number" name="age" placeholder="Enter age" id="name">
        <input type="submit" name="sub2" value="Submit">
        <!-- This Names are different -->
    </form>
</body>
</html>
```

## PHP Form with multiple Submit button

PHP Supports having multiple submit buttons in one form until and unless their names are different

```
<?php
    if(isset($_POST['submit'])){
        echo "Submit button was clicked...!!<br>Value is : ";
        echo $_POST['name'];
    }

    if(isset($_POST['send'])){
        echo "Send button was clicked...!!<br>Value is : ";
    }
```

```

        echo $_POST['name'];
    }
?>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Multiple Submit</title>
</head>
<body>

    <form action="multsub.php" method="post">
        <input type="text" name="name" placeholder="Enter name" id="name">
        <input type="submit" name="submit" value="Submit">
        <input type="submit" name="send" value="Send">
        <!-- This Names are different -->
    </form>
    <br><br><br>
</body>
</html>

```

## Web Page Validation

### Empty String

```

if (empty($_POST["name"])) {
    $errMsg = "Error! You didn't enter the Name.";
    echo $errMsg;
} else {
    $name = $_POST["name"];
}

```

### Validate If Is String

```

$name = $_POST ["Name"];
if (!preg_match ("/^[a-zA-Z]*$/", $name) ) {
    $errMsg = "Only alphabets and whitespace are allowed.";
    echo $errMsg;
} else {
    echo $name;
}

```

### Validate if is number

```

$mobileno = $_POST ["Mobile_no"];
if (!preg_match ("/^[0-9]*$/", $mobileno) ){
    $errMsg = "Only numeric value is allowed.";
    echo $errMsg;
} else {
    echo $mobileno;
}

```

---

## Validate Email

```
$email = $_POST ["Email"];
$pattern = "^[_a-z0-9-]+(\\.[_a-z0-9-]+)*@[a-z0-9-]+(\\.[a-z0-9-]+)*(\\.[a-z]{2,3})$^";
if (!preg_match ($pattern, $email) ){
    $ErrMsg = "Email is not valid.";
    echo $ErrMsg;
} else {
    echo "Your valid email address is: " . $email;
}
```

## Validate URL

```
$websiteURL = $_POST["website"];
if (!preg_match("/^b(?:(:https?|ftp):\\/\\/[www\\.)([a-z0-9+&@#\\/%?=-_!:,.;]*[a-z0-9+&@#\\/%?=-_]/i",$website)) {
    $websiteErr = "URL is not valid";
    echo $websiteErr;
} else {
    echo "Website URL is: " . $websiteURL;
}
```

## Input Length

```
$mobilenos = strlen ($_POST ["Mobile"]);
$length = strlen ($mobilenos);

if ( $length < 10 && $length > 10) {
    $ErrMsg = "Mobile must have 10 digits.";
    echo $ErrMsg;
} else {
    echo "Your Mobile number is: " . $mobilenos;
}
```

## Cookies

A cookie is a small file that the server embeds on the user's computer

### Create/Retrieve Cookie

```
<?php
$cookie_name = "user";
$cookie_value = "John Doe";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/"); // 86400 = 1 day
?>
```

```

<html>
<body>

<?php
if(!isset($_COOKIE[$cookie_name])) {
    echo "Cookie named '" . $cookie_name . "' is not set!";
} else {
    echo "Cookie '" . $cookie_name . "' is set!<br>";
    echo "Value is: " . $_COOKIE[$cookie_name];
}
?>

</body>
</html>

```

## Modify Cookie

```

<?php
$cookie_name = "user";
$cookie_value = "Alex Porter";
setcookie($cookie_name, $cookie_value, time() + (86400 * 30), "/");
?>

<html>
<body>

<?php
if(!isset($_COOKIE[$cookie_name])) {
    echo "Cookie named '" . $cookie_name . "' is not set!";
} else {
    echo "Cookie '" . $cookie_name . "' is set!<br>";
    echo "Value is: " . $_COOKIE[$cookie_name];
}
?>

</body>
</html>

```

## Delete a Cookie

```

<?php
// set the expiration date to one hour ago
setcookie("user", "", time() - 3600);
?>

<html>
<body>

<?php
echo "Cookie 'user' is deleted.";
?>

</body>
</html>

```

# Session

Session variables hold information about one single user, and are available to all pages in one application.

## Start The PHP Session

`session_start()`

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// Set session variables
$_SESSION["favcolor"] = "green";
$_SESSION["favanimal"] = "cat";
echo "Session variables are set.";
?>

</body>
</html>
```

## Get PHP Session

`$_SESSION["name"]`

```
<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// Echo session variables that were set on previous page
echo "Favorite color is " . $_SESSION["favcolor"] . "<br>";
echo "Favorite animal is " . $_SESSION["favanimal"] . ".";
?>

</body>
</html>
```

## Modify Session

Just overwrite the session



```

<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// to change a session variable, just overwrite it
$_SESSION["favcolor"] = "yellow";
print_r($_SESSION);
?>

</body>
</html>

```

## Delete a Session

`session_unset()`

`session_destroy()`

```

<?php
session_start();
?>
<!DOCTYPE html>
<html>
<body>

<?php
// remove all session variables
session_unset();

// destroy the session
session_destroy();
?>

</body>
</html>

```

## Sending an email

`mail( to, subject, message, headers, parameters );`

```

<html>

<head>
<title>Sending HTML email using PHP</title>
</head>

<body>

<?php
    $to = "xyz@somedomain.com";
    $subject = "This is subject";

```

```
$message = "<b>This is HTML message.</b>";
$message .= "<h1>This is headline.</h1>";

$header = "From:abc@somedomain.com \r\n";
$header .= "Cc:afgh@somedomain.com \r\n";
$header .= "MIME-Version: 1.0\r\n";
$header .= "Content-type: text/html\r\n";

$retval = mail ($to,$subject,$message,$header);

if( $retval == true ) {
    echo "Message sent successfully..";
}else {
    echo "Message could not be sent..";
}
?>

</body>
</html>
```