

PHP

Part 3

Topics

- Form HTML
- PHP Form Handling
- PHP Form Validation
- PHP Forms - Required Fields

Form HTML

PHP Form Validation Example

* required field.

Name: *

E-mail: *

Website:

Comment:

Gender: ☐ Female ☐ Male *


Submit

```
<form method="post" action="test_form.php">
```

```
// DATA INPUT
```

```
</form>
```

Form HTML



```
Name: <input type="text" name="name">
<br><br>
E-mail: <input type="text" name="email">
<br><br>
Website: <input type="text" name="website">
<br><br>
Comment: <textarea name="comment" rows="5" cols="40"></textarea>
<br><br>
Gender:
<input type="radio" name="gender" value="female">Female
<input type="radio" name="gender" value="male">Male
<br><br>
<input type="submit" name="submit" value="Submit">
```

GET vs. POST

- `$_GET` is an array of variables passed to the current script via the URL parameters.
- `$_POST` is an array of variables passed to the current script via the HTTP POST method.
- Both GET and POST create an array (e.g. `array(key => value, key2 => value2, key3 => value3, ...)`)

POST - A Simple HTML Form

Example


```
<html>
<body>

<form action="welcome.php" method="post">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>

</body>
</html>
```

lab1.html

welcome.php



```
<html>
<body>

Welcome <?php echo $_POST["name"]; ?><br>
Your email address is: <?php echo $_POST["email"]; ?>

</body>
</html>
```

GET - A Simple HTML Form

Example

```
<html>
<body>

<form action="welcome_get.php" method="get">
Name: <input type="text" name="name"><br>
E-mail: <input type="text" name="email"><br>
<input type="submit">
</form>

</body>
</html>
```

lab2.html



Welcome_get.php

```
<html>
<body>

Welcome <?php echo $_GET["name"]; ?><br>
Your email address is: <?php echo $_GET["email"]; ?>

</body>
</html>
```

When to use GET?

- Information sent from a form with the GET method is **visible to everyone** (all variable names and values are displayed in the URL)
- GET also has limits on the amount of information to send. The limitation is about 2000 characters.
- However, because the variables are displayed in the URL,
 - it is possible to bookmark the page.
 - GET may be used for sending non-sensitive data.

When to use POST?

- Information sent from a form with the POST method is **invisible to others** (all names/values are embedded within the body of the HTTP request)
- **no limits** on the amount of information to send
- Moreover POST supports advanced functionality such as support for multi-part binary input while uploading files to server
- it is not possible to bookmark the page.

What is the `$_SERVER["PHP_SELF"]` variable?

```
<form method="post" action="<?php echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
```

- The `$_SERVER["PHP_SELF"]` is a super global variable that returns the filename of the currently executing script.
- The `htmlspecialchars()` function converts special characters to HTML entities. This means that it will replace HTML characters like `<` and `>` with `<` and `>`;

PHP Form LAB #1

PHP Form Validation Example

Name:

E-mail:

Website:

Comment:

Gender: ☐ Female ☐ Male

Your Input:

PHP Form LAB #1

- lab_form1.php

```
<h2>PHP Form Validation Example</h2>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
  Name: <input type="text" name="name">
  <br><br>
  E-mail: <input type="text" name="email">
  <br><br>
  Website: <input type="text" name="website">
  <br><br>
  Comment: <textarea name="comment" rows="5" cols="40"></textarea>
  <br><br>
  Gender:
  <input type="radio" name="gender" value="female">Female
  <input type="radio" name="gender" value="male">Male
  <br><br>
  <input type="submit" name="submit" value="Submit">
</form>
```

Get Data by Post LAB#1

- เพิ่มใน lab_form1.php

```
<?php
// define variables and set to empty values
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    $name = test_input($_POST["name"]);
    $email = test_input($_POST["email"]);
    $website = test_input($_POST["website"]);
    $comment = test_input($_POST["comment"]);
    $gender = test_input($_POST["gender"]);
}

?>
```

Show Data LAB#1

- เพิ่มใน lab_form1.php ส่วนท้าย

```
<?php
echo "<h2>Your Input:</h2>";
echo $name;
echo "<br>";
echo $email;
echo "<br>";
echo $website;
echo "<br>";
echo $comment;
echo "<br>";
echo $gender;
?>
```

PHP Forms - Required Fields

PHP Form Validation Example

* required field.

Name: *

E-mail: *

Website:

Comment:

Gender: ☐ Female ☐ Male *

Your Input:

PHP Forms - Required Fields

Field	Validation Rules
Name	Required. + Must only contain letters and whitespace
E-mail	Required. + Must contain a valid email address (with @ and .)
Website	Optional. If present, it must contain a valid URL
Comment	Optional. Multi-line input field (textarea)
Gender	Required. Must select one

PHP Forms - Required Fields

PHP Form Validation Example

* required field.

Name: * Name is required

E-mail: * Email is required

Website:

Comment:

Gender: ☐ Female ☐ Male * Gender is required

Your Input:

```
<?php
// define variables and set to empty values
$nameErr = $emailErr = $genderErr = $websiteErr = "";
$name = $email = $gender = $comment = $website = "";

if ($_SERVER["REQUEST_METHOD"] == "POST") {
    if (empty($_POST["name"])) {
        $nameErr = "Name is required";
    } else {
        $name = test_input($_POST["name"]);
    }

    if (empty($_POST["email"])) {
        $emailErr = "Email is required";
    } else {
        $email = test_input($_POST["email"]);
    }

    if (empty($_POST["website"])) {
        $website = "";
    } else {
        $website = test_input($_POST["website"]);
    }

    if (empty($_POST["comment"])) {
        $comment = "";
    } else {
        $comment = test_input($_POST["comment"]);
    }

    if (empty($_POST["gender"])) {
        $genderErr = "Gender is required";
    } else {
        $gender = test_input($_POST["gender"]);
    }
}
?>
```

PHP Forms - Required Fields

- แก้ไข lab_form1.php

```
<h2>PHP Form Validation Example</h2>
<p><span class="error">* required field.</span></p>
<form method="post" action="<?php echo
htmlspecialchars($_SERVER["PHP_SELF"]);?>">
    Name: <input type="text" name="name">
    <span class="error">* <?php echo $nameErr;?></span>
    <br><br>
    E-mail: <input type="text" name="email">
    <span class="error">* <?php echo $emailErr;?></span>
    <br><br>
    Website: <input type="text" name="website">
    <span class="error"><?php echo $websiteErr;?></span>
    <br><br>
    Comment: <textarea name="comment" rows="5" cols="40"></textarea>
    <br><br>
    Gender:
    <input type="radio" name="gender" value="female">Female
    <input type="radio" name="gender" value="male">Male
    <span class="error">* <?php echo $genderErr;?></span>
    <br><br>
    <input type="submit" name="submit" value="Submit">
</form>
```