Tutorial 09 – PHP Form Handling

Table of Contents

earning Outcomes	1
HP Form Handling	2
he \$_GET Function	3
When to use method="get"?	3
he \$_POST Function	4
When to use method="post"?	4
he PHP \$_REQUEST Function	5
urther Reading	5
HP Form handling Exercise	6

Learning Outcomes

1. Form Handling

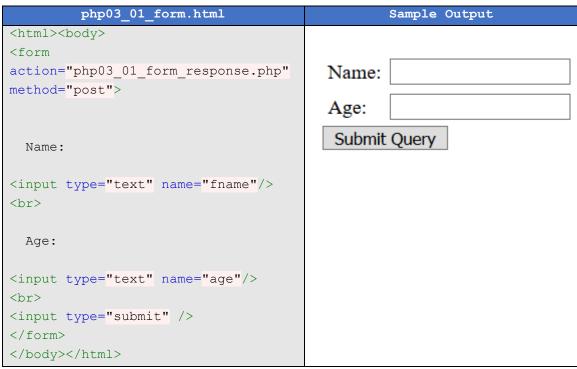
Reserved variable: \$_GET
 Reserved variable: \$_POST
 Reserved variable: \$_REQUEST

PHP Form Handling

- Any form element in an HTML page will automatically be available to your PHP scripts.
- \$_GET and \$_POST variables are used to retrieve information from forms, like user input.

Example

The example below contains an HTML form with two input fields and a submit button:

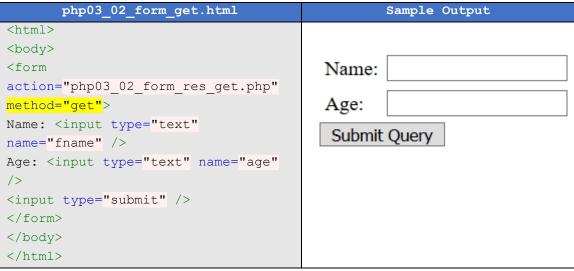


• When a user fills out the form above and click on the submit button, the form data is sent to a PHP file, called "php03 01 form response.php":

php03_01_form_response.php	Sample Output
<html></html>	
<body></body>	
	Welcome John!
Welcome php echo</td <td>You are 28 years old.</td>	You are 28 years old.
<pre>\$_POST["fname"]; ?>! </pre>	
You are php echo</td <td></td>	
<pre>\$_POST["age"]; ?> years old.</pre>	

The \$ GET Function

- The built-in \$_GET function is used to collect values from a form sent with method="get".
- Information sent from a form with the GET method is visible to everyone (it will be displayed
 in the browser's address bar) and
 - has limits on the amount of information to send (max. 100 characters).



 When the user clicks the "Submit" button, the URL sent to the server could look something like this:

• The "php03_02_form_res_get.php" file can now use the \$_GET function to collect form data (the names of the form fields will automatically be the keys in the \$_GET array):

php03_02_form_res_get.php	Sample Output
<html></html>	
<body></body>	
Welcome	Welcome John!
<pre><?php echo \$_GET["fname"]; ?></pre>	You are 28 years old.
. 	
You are	
<pre><?php echo \$_GET["age"]; ?></pre>	
years old!	

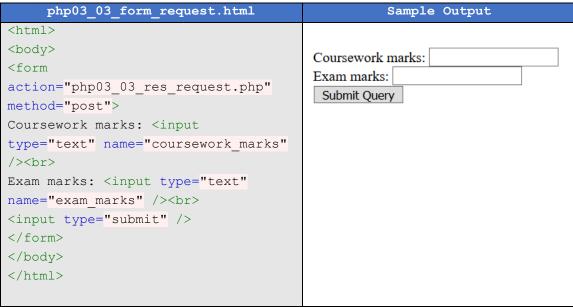
When to use method="get"?

- When using method="get" in HTML forms, all variable names and values are displayed in the URL.
- This method should **NOT** be used when sending passwords or other **sensitive** information!
- However, because the variables are displayed in the URL, it is <u>possible to bookmark</u> the page. This can be useful in some cases.
- The get method is <u>not suitable for large variable</u> values; the value cannot exceed 100 characters.

The \$ POST Function

- The built-in \$_POST function is used to collect values from a form sent with method="post".
- Information sent from a form with the POST method is invisible to others and has no limits on the amount of information to send.
- Note: However, there is an 8 Mb max size for the POST method, by default (can be changed by setting the post_max_size in the php.ini file).

Example



When the user clicks the "Submit" button, the URL will look like this:



When to use method="post"?

- Information sent from a form with the POST method is <u>invisible to others</u> and has <u>no limits</u> on the amount of information to send.
- However, because the variables are not displayed in the URL, it is **not possible to bookmark** the page.

The PHP \$ REQUEST Function

- The PHP built-in \$_REQUEST function contains the contents of both \$_GET and \$_POST.
- The \$_REQUEST function can be used to collect form data sent with both the GET and POST methods.

Example



 Note: if-else will be covered in next Tutorial, you may refer to the following tutorial for exercise purpose:

https://www.w3schools.com/php7/php7_if_else.asp

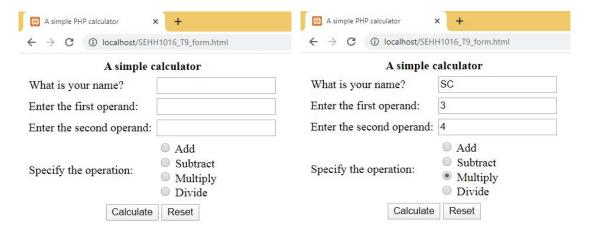
Further Reading

- 1. https://www.php.net/manual/en/reserved.variables.get.php
- 2. https://www.php.net/manual/en/reserved.variables.post.php
- 3. https://www.php.net/manual/en/reserved.variables.request.php

PHP Form handling Exercise

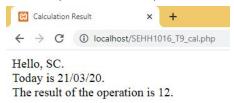
Create a PHP calculator and test it with a Web server

 Create an HTML form similar to the one below. Save the file as "SEHH1016_T9_form.html" in the root directory of the Web server. You can use the template provided to start your work.



Note the following about the form:

- Use the POST method in the form
- When the user clicks the "Calculate" button, the form is sent to a dynamic HTML page called "SEHH1016_T9_cal.php". This PHP file will be put in the root directory of your Web server. You will create this file in step 3 below.
- Use suitable "name" for the input elements. These names will be referenced again in the PHP file in step 3.
- 2. Save the HTML form. Use a browser to view the result.
- 3. Create a PHP file called "SEHH1016_T9_cal.php". The page should look similar to the one below (after the user inputs in the HTML form). It displays the following information:
 - A greeting message (in the first line)
 - The date of today (in the second line)
 - The result of the calculation (in the third line)



- 4. Note the following about the PHP file.
 - By using the \$_POST variable in the PHP file, get the values input by the user.
 Hint: To get the input from one particular input element from the HTML form, use "name" of that input element as the index to the \$ POST variable)
 - To obtain a <u>user's radio button selection</u>, the "value" of the <u>selected</u> radio button will become the stored value in the \$_POST variable of the set of radio buttons.

- Determine which arithmetic operation (+, -, *, /) should be carried out based on the operation selected by the user. Use conditional statements (if...elseif...else) to control the execution
- 5. Save the PHP file. Make sure the PHP file is in the root directory of the web server. Test the PHP calculator: (1) enter values in the HTML form, (2) click the calculate button, and (3) view the result displayed in the PHP page.