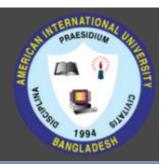


Course Code: **CSC 3222** Course Title: WEB TECHNOLOGIES

Dept. of Computer Science Faculty of Science and Technology

Lab No:	3	Week No:	3	Semester:	
Lecturer:	Supta Richard Philip & richard@aiub.edu				

Lecture Outline



- 1. Learning Objectives
- 2. PHP Form Handling
 - I. HTTP POST
 - II. HTTP GET
 - III. HTTP GET vs HTTP POST
- 3. PHP Form Validation
- 4. Books and References

Learning Objectives



- In this Lab, we will learn more details about HTML form elements i.e. different type of form, designing different type of HTML form and form action.
- We will also learn HTTP GET and POST.
- Handling form data using \$_GET or \$_POST methods and validations form data using PHP.



- The PHP superglobals \$_GET and \$_POST are used to collect form-data.
- The example displays a simple HTML form with two input fields and a submit button:



HTTP POST

- When the user fills out the form and clicks the submit button, the form data is sent for processing to a PHP file named "welcome.php". The form data is sent with the HTTP POST method.
- welcome.php file



HTTP GET

- The same result could also be achieved using the HTTP GET method:
- Welcome_get.php file



HTTP GET vs HTTP POST

- Both GET and POST create an array (e.g. array(key1 => value1, key2 => value2, key3 => value3, ...)). This array holds key/value pairs, where keys are the names of the form controls and values are the input data from the user.
- \$_GET is an array of variables passed to the current script via the URL parameters.
- Information sent from a form with the GET method is visible to everyone (all variable names and values are displayed in the URL).
- \$_POST is an array of variables passed to the current script via the HTTP POST method.
- Information sent from a form with the POST method is invisible to others



- Proper validation of form data is important to protect your form from hackers and spammers!
- Lets consider the example.

PHP Form Validation Example

* required field	
Name: *	
E-mail:	
Website:	
Comment:	
Gender: Female Male Other *	
Submit	



- The validation rules for the form above are as follows:
- \$_SERVER["PHP_SELF"] is a super global variable that returns the filename of the currently executing script and sends the submitted form data to the page itself, instead of jumping to a different page.
- <form method="post" action="<?php echo htmlspecialchars(\$_ SERVER["PHP_SELF"]);?>">

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	



- \$_SERVER["PHP_SELF"] is a super global variable that returns the filename of the currently executing script and sends the submitted form data to the page itself, instead of jumping to a different page.
- <form method="post" action="<?php echo htmlspecialchar
 s(\$_SERVER["PHP_SELF"]);?>">
- The htmlspecialchars() function converts special characters to HTML entities. This prevents attackers from exploiting the code by injecting HTML or Javascript code (Cross-site Scripting attacks) in forms.
- The validation rules for the form above are as follows:

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	



Validate the form and display the error message. We will see the details in
Lab session.

' <?php
 \$nameErr = "";
 \$name = "";

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

```
function test_input($data) {
   $data = trim($data);
   $data = stripslashes($data);
   $data = htmlspecialchars($data);
   return $data;
}
```

Books



- W3Schools Online Web Tutorials; URL: http://www.w3schools.com
- PHP Documentation; URL: http://www.php.net/docs.php
- Sams Teach Yourself Ajax JavaScript and PHP All in One; Phil Ballard and Michael Moncur; Sams Publishing; 2010
- JavaScript Phrasebook; Christian Wenz; Sams Publishing; 2007
- PHP and MySQL Web Development, 4/E; Luke Welling and Laura Thomson; Addison-Wesley Professional; 2009
- JavaScript for Programmers Paul J. Deitel and Harvey M. Deitel; Prentice Hall; 2009
- Beginning PHP5, Apache, and MySQL Web Development; Elizabeth Naramore, Jason Gerner, Yann Le Scouarnec, Jeremy Stolz and Michael K. Glass; Wiley Publishing; 2005
- XML in a Nutshell, 3/E; Elliotte Rusty Harold and W. Scott Means;
 O'Reilly Media; 2004

References



1. https://www.w3schools.com/php/php forms.asp