Exp. No. E13	MANUAL NO. : DYPPCOE-CSE-T2-WT-II	SUBJECT: WEB TECHNOLOGIES- II
DEPARTMENT: CSE	ISSUE NO.: 01	ISSUE DATE: 05/12/2018
REV. NO. : 0	REV. DATE: 05/12/18	

Experiment Title: Form validation using PHP using regular expressions

Objective:

To learn and implement Form validation using PHP using regular expressions

Theory & Procedure:

What is Validation?

Validation means check the input submitted by the user. There are two types of validation are available in PHP. They are as follows –

- Client-Side Validation Validation is performed on the client machine web browsers.
- Server Side Validation After submitted by data, The data has sent to a server and perform validation checks in server machine.

Some of Validation rules for field

Field	Validation Rules
Name	Should required letters and white-spaces
Email	Should required @ and .
Website	Should required a valid URL
Radio	Must be selectable at least once
Check Box	Must be checkable at least once
Drop Down menu	Must be selectable at least once

Valid URL

Below code shows validation of URL

```
$website = input($_POST["site"]);

if (!preg_match("/\b(?:(?:https?|ftp):\/\/|www\.)[-a-z0-9+&@#\/%?=~_|!:,.;]*[-a-z0-9+&@#\/%=~_|]/i",$website)) {
    $websiteErr = "Invalid URL";
}
```

Above syntax will verify whether a given URL is valid or not. It should allow some keywords as https, ftp, www, a-z, 0-9,..etc..

Valid Email

Below code shows validation of Email address.

```
$email = input($_POST["email"]);
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```

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```
if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
    $emailErr = "Invalid format and please re-enter valid email";
}
```

Above syntax will verify whether given Email address is well-formed or not.if it is not, it will show an error message.

Example

Example below shows the form with required field validation

```
<html>
 <head>
   <style>
     .error {color: #FF0000;}
   </style>
 </head>
 <body>
   <?php
     // define variables and set to empty values
     $nameErr = $emailErr = $genderErr = $\text{$\text{$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";
         $email = test_input($_POST["email"]);
        // check if e-mail address is well-formed
         if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
           $emailErr = "Invalid email format";
        }
       }
       if (empty($_POST["website"])) {
```

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```
$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"]);
   }
 }
 function test_input($data) {
   $data = trim($data);
   $data = stripslashes($data);
   $data = htmlspecialchars($data);
   return $data;
 }
?>
<h2>Absolute classes registration</h2>
<span class = "error">* required field.</span>
<form method = "post" action = "<?php
 echo htmlspecialchars($_SERVER["PHP_SELF"]);?>">
 Name:
     <input type = "text" name = "name">
      <span class = "error">* <?php echo $nameErr;?></span>
     E-mail: 
     <input type = "text" name = "email">
```

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```
<span class = "error">* <?php echo $emailErr;?></span>
    Time:
     <input type = "text" name = "website">
     <span class = "error"><?php echo $websiteErr;?></span>
    Classes:
      <textarea name = "comment" rows = "5" cols = "40" > </textarea > 
  Gender:
    <input type = "radio" name = "gender" value = "female">Female
     <input type = "radio" name = "gender" value = "male">Male
     <span class = "error">* <?php echo $genderErr;?></span>
    <input type = "submit" name = "submit" value = "Submit">
  </form>
<?php
 echo "<h2>Your given values are as:</h2>";
 echo $name;
 echo "<br>";
 echo $email;
 echo "<br>";
 echo $website;
 echo "<br>";
```

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echo \$comment; echo " ";	
echo \$gender; ?>	
It will produce the following result —	
Absolute classes registration	
* required field.	
Name:	
E-mail: * Time:	
Time.	
Classes:	
Gender: Female Male *	
Submit	
Your given values are as :	
Tour given values are as .	

Conclusion: