

Experiment No: 12

Develop web page with data validation.

Resources required:

Hardware	Software
Computer System	XAMPP

Practical Significance:

User may by mistakenly submit the data through form with empty fields or in wrong format. PHP script must ensure that required fields are complete and submitted data is in valid format. PHP provides some inbuilt function using these functions that input data can be validated.

Theoretical Background:

- empty() function will ensure that text field is not blank it is with some data, function accepts a variable as an argument and returns TRUE when the text field is submitted with empty string, zero, NULL or FALSE value.
- Is_numeric() function will ensure that data entered in a text field is a numeric value, the function accepts a variable as an argument and returns TRUE when the text field is submitted with numeric value.
- preg_match() function is specifically used to performed validation for entering text in the text field, function accepts a “regular expression” argument and a variable as an argument which has to be in a specific pattern. Typically it is for validating email, IP address and pin code in a form.
- For Example a PHP page formvalidation.php is having three text fields name, mobile number and email from user, on clicking Submit button a data will be submitted to PHP script validdata.php on the server, which will perform three different validation on these three text fields, it will check that name should not be blank, mobile number should be in numeric form and the email is validated with an email pattern.

Program Code:

formvalidation.php

```
<html>
<head>
<title> Validating Form Data</title>
</head>
```

```
<body>
    <form method="post" action="validdata.php">
        Name :<input type="text" name="name" id="name" /><br/>
        Mobile Number :<input type="text" name="mobilenumber" id="mobilenumber" /><br/>
        Email ID :<input type="text" name="email" id="email" /><br/>
        <input type="submit" name="submit_btn" value="Submit" />
    </form>
</body>
</html>
```

validdata.php

```
<?php
if ($_SERVER['REQUEST_METHOD'] === 'POST') {
    if(empty($_POST['name']))
    {
        echo "Name can't be blank<br/>";
    }
    if(!is_numeric($_POST['mobilenumber']))
    {
        echo "Enter valid Mobile Number<br/>";
    }
    $pattern = '/^b[\w.-]+@[ \w.-]+\.[A-Za-z]{2,6}$/b/';
    if(!preg_match($pattern,$_POST['email']))
    {
        echo "Enter valid Email ID.<br/>";
    }
}
?>
```

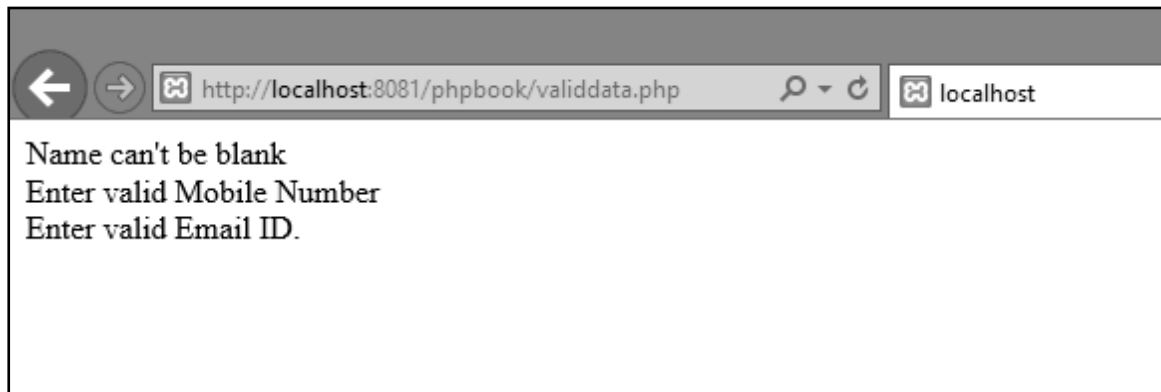
Output:

← → http://localhost:8081/phpbook/formvalidation.php 🔍 ↻ Validating Form Data

Name :

Mobile Number :

Email ID :



Practical related questions:

1. How to validate user input in PHP? Explain
By using regex, we can validate user input in PHP.
2. Why is the need to validate user input?
To make sure we get correct data in input.

Exercise:

1. Write a PHP script to check that emails are valid or not.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <title>Validate Email</title>
</head>
<body>
    <form action="" method="GET">
        <input type="email" name="email" >
        <input type="submit" value="Submit">
    </form>
</body>
</html>

<?php

    $email = $_GET['email'];

    echo $email;

?>
```