

**Batch: B4 Roll No.: 16010122828****Experiment No. 05****TITLE: Develop and Demonstrate the use of Form Handling and Validation in PHP****AIM:** To develop web forms using PHP form and Validation.

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**Expected Outcome of Experiment:** Integrate server side pages using php.

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**Books/ Journals/ Websites referred:**

1. <https://www.w3schools.com>
  2. Web Design The complete Reference - Thomas Powell, Tata McGrawHill, 5 th edition 2010
  3. HTML and XHTML The complete Reference - Thomas Powell, Tata McGrawHill, 5 th edition 2010
  4. <https://www.php.net/>
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**Problem Statement:**

For creating a web form using PHP that will collect user input and validate it before submitting it to a database. The form should have the following fields:

Name (required)

Email (required and must be a valid email address)

Phone Number (optional, but must be a valid phone number if provided) The validation for the form should include the following:

All required fields must be filled out before the form can be submitted.

The email address provided must be a valid email address.

If a phone number is provided, it must be a valid phone number. By Using the Above Statement we are creating a E-Commerce website for selling fresh Farming products , vegetable's and Fruits.

**In this experiment we implement php form validation in our sign up form and apply it in our problem statement website.**

# PHP Basic Concepts Learned With Syntax

(A Constituent College of Somaiya Vidyavihar University)

- PHP is an acronym for "PHP: Hypertext Preprocessor"
- PHP is a widely-used, open source scripting language
- PHP scripts are executed on the server

## Some Syntax of php

```
→ <!DOCTYPE html>
<html>
<body>
<?php
ECHO "Hello World!<br>";
echo "Hello World!<br>";
EcHo "Hello World!<br>";
?>
</body>
</html>
```

## SYNTAX FOR “HELLO WORLD” IN PHP

```
→ <!DOCTYPE html>
<html>
<body>
<?php
$color = "red";
echo "My car is " . $color . "<br>";
echo "My house is " . $COLOR . "<br>";
echo "My boat is " . $coLOR . "<br>";
?>
</body>
</html>
```

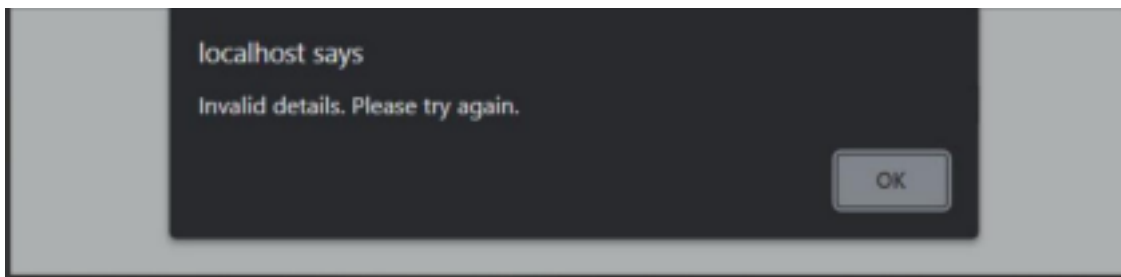
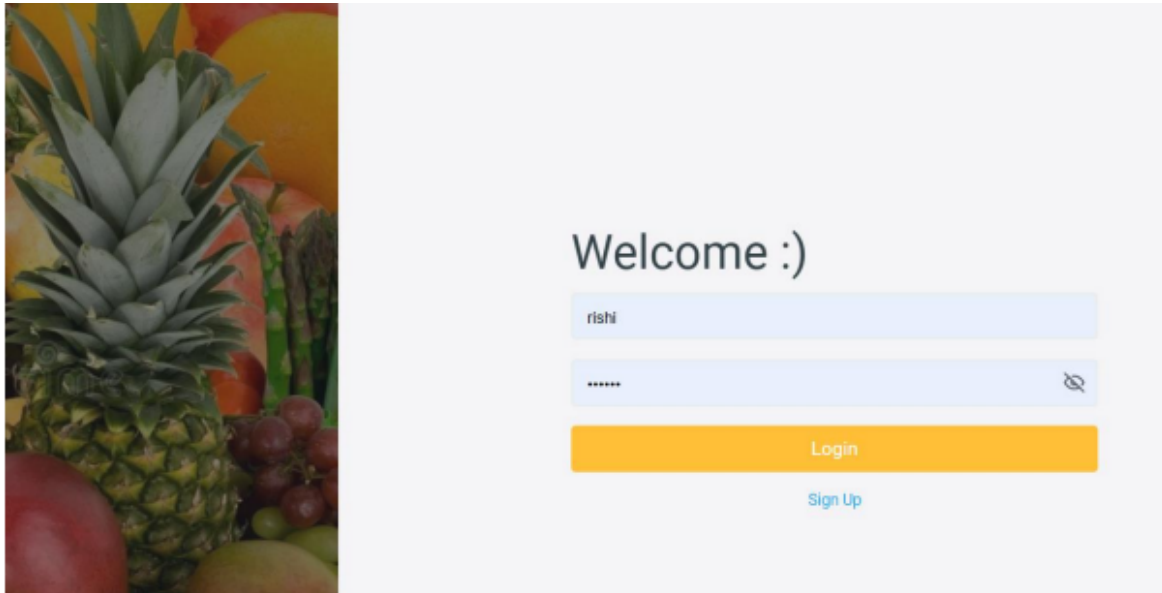
## Description of the application implemented with output:

Code:-

```
<?php
session_start();
error_reporting(0);
include('includes/config.php');
if(isset($_POST['login']))
{
    $username=$_POST['username'];
    $password=(($_POST['password']));
    $query=mysqli_query($con,"select ID from
registerinthis where username='$username' &&
password='$password' "); $ret=mysqli_fetch_array($query);
    if($ret>0){
        $_SESSION['aid']=$ret['ID'];

        header('location:dashboard.php');
    }
    else{
        echo "<script>alert('Invalid details. Please try
again.');
```

Output:-



Full name

Rishab Chidurala

Email

rishi



Please include an '@' in the email address. 'rishi' is missing an '@'.

\*\*\*\*\*

Confirm password

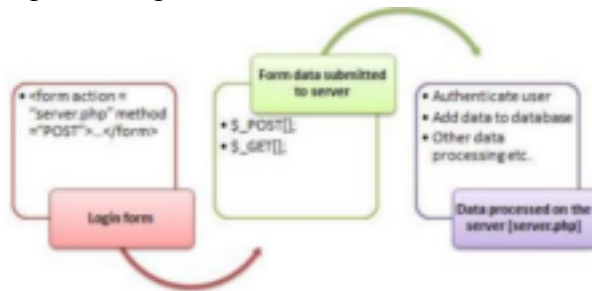
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## Post Lab Objective with Ans :

### What is PHP Form?

**Ans:-** When you login into a website or into your mail box, you are interacting with a form.

Forms are used to get input from the user and submit it to the web server for processing.



Forms come in handy when developing flexible and dynamic applications that accept user input. Forms can be used to edit already existing data from the database.

### What is PHP Form Validation?

**Ans:-** An HTML form contains various input fields such as text box, checkbox, radio buttons,

submit button, and checklist, etc. These input fields need to be validated, which ensures that the user has entered information in all the required fields and also validates that the information provided by the user is valid and correct.

There is no guarantee that the information provided by the user is always correct. PHP validates the data at the server-side, which is submitted by HTML form. You need to validate a few things:

- Empty String
- Validate String
- Validate Numbers
- Validate Email
- Validate URL
- Input length.

### List different inbuilt functions used in PHP form and validation

**Ans:-**

- htmlspecialchars() Function: htmlspecialchars() converts special characters such as "&" (ampersand) into HTML entities "&". This function protects the code from attackers.

- Name Validation:

```
if (empty($_POST["name"])) {
    $nameErr = "Please enter a valid name";
} else {
    $name = test_input($_POST["name"]);
    // check if name only contains letters and whitespace
```

```
if (!preg_match("/^[a-zA-Z-' ]*$/",$name))
{ $nameErr = "Only letters and white space allowed"; }
}
```

It uses this part of the code for name validation in the form.

Here, in the if statement, it checks whether the field is empty. If true, it displays an appropriate error message.

While the else statement checks whether any character (other than letters and whitespaces) is present in the entry or not, and displays an error message accordingly.

- Email Validation:

```
if (empty($_POST["email"])) {  
    $emailErr = "valid Email address";  
} else {  
    $email = test_input($_POST["email"]);  
    // check if e-mail address is well-formed  
    if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {  
        $emailErr = "The email address is incorrect";  
    }  
}
```

In the above code, filter\_var() is a function used to validate and filter user input data. Further, FILTER\_VALIDATE\_EMAIL validates the value for being a valid email address.

- Website Validation

```
if (empty($_POST["website"])) {  
    $website = "";  
} else {  
    $website = test_input($_POST["website"]);  
    // check if URL address syntax is valid  
    if (!preg_match("/^b(?:(:?https?|ftp):\\W|www\\.)([a-z09+&@#\\/%?~_!:,.;]*[-a-z0-9+&@#\\/%?~_]/i",$website)) {  
        $websiteErr = "Enter a valid Website URL";  
    }  
}
```

Here, a preg\_match() function is used which returns 'true' if a match (for the given set of patterns passed inside it) was found in a string. It checks if the website string contains a valid URL.

- Gender Validation

```
if (empty($_POST["gender"])) {  
    $genderErr = "Please select a gender";  
} else {  
    $gender = test_input($_POST["gender"]);  
}
```

Since the gender field has been displayed as a select option (i.e., Male or Female), this code only checks if an option is chosen or not.