

A Web Site Example Code

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Based on material by Tom Chothia

A HTML Page with a Form

```
<html>
  <head>
    <title>An HTML Test</title>
    <!-- This script makes sure the numbers entered are ints -->
    <script type="text/javascript">
      function validate_form(form) {
        var regexp = /^\d+$/;
        if (form.noOne.value.match(regexp) && form.noTwo.value.match(regexp)) {
          return true;
        } else {
          alert("Please enter numbers");
          return false;
        }
      }
    </script>
  </head>

  <body>
    <h1> This is a HTML page</h1>
    <p>Here is some <b>Bold text!</b></p>
    <p> and here is a form</p>

    <form action="resultPass.php" onsubmit="return validate_form(this);" method="post">
      <p>Number 1: <input type="text" name="noOne" /></p>
      <p>Number 2: <input type="text" name="noTwo" /></p>
      <p>Username: <input type="text" name="user" /></p>
      <p>Password: <input type="password" name="pass" /></p>
      <p><input type="submit" /></p>
    </form>
  </body>
</html>
```

This page displays a form; when the submit button is clicked the `validate_form` JavaScript is run to make sure that the user has entered numbers in the number fields. If so, the page `resultPass.php` is loaded, and the form contents are passed to it as post parameters.

A HTML Page with PHP: resultPass.php

```
<html>
  <head>
    <title>PHP Test</title>
  </head>
  <body>

    <?php
      // Get the send by the user via the HTTP POST
      $user  = $_POST["user"];
      $pass  = $_POST["pass"];
      $noOne = $_POST["noOne"];
      $noTwo = $_POST["noTwo"];

      // Write the request to a log file
      $fh = fopen("logText.php", "a") or die("can't open file");
      $logData = "IP is ".$_SERVER["REMOTE_ADDR"]." asked about ".$noOne." & ".$noTwo."<br>\n";
      fwrite($fh, $logData);
      fclose($fh);

      //Connect to the SQL database
      $con=mysqli_connect("127.0.0.1","tpc","password","webdemo");

      //Make sure username and password are formatted correctly;
      $user  = mysqli_real_escape_string($con,$user);
      $pass  = mysqli_real_escape_string($con,$pass);

      //Check to see if username password combination are in the database
      $result = mysqli_query($con,"SELECT * FROM users WHERE username='".$
                                                                    . $user."' && password='".$pass."'");

      $row = mysqli_fetch_array($result);

      if (empty($row)) {
        echo "Password & Username not found<br>\n";
      } else {
        //User authenticated correctly, add the numbers
        echo "Password correct!<br><br>";
        echo "Number 1 + Number 2 = ".(intval($noOne)+intval($noTwo));
        echo "<br>";

        // Print and add 1 to the number of uses in the database
        $userID = $row['id'];
        $uses = $row['uses'];
        echo "You have used this service ".$uses." times";
        echo "<br>";
        mysqli_query($con,"UPDATE users SET uses=".( $uses+1)." WHERE id='".$userID."'");
      }

      //Close the database connection.
      mysqli_close($con);
    ?>
  </body>
</html>
```