PHP Form Handling

Introduction to PHP Global Variables - Superglobals

Some predefined variables in PHP are "superglobals", which means that they are always accessible, regardless of scope - and you can access them from any function, class or file without having to do anything special.

Thus, Super global variables are built-in variables that are always available in all scopes.

The PHP superglobal variables are:

- \$GLOBALS
- \$ SERVER
- \$_REQUEST
- \$ POST
- \$_GET
- \$_FILES
- \$_ENV
- \$_COOKIE
- \$ SESSION

PHP \$GLOBALS

- \$GLOBALS is a PHP super global variable which is used to access global variables from anywhere in the PHP script (also from within functions or methods).
- PHP stores all global variables in an array called \$GLOBALS[index]. The index holds
 the name of the variable.
- The example below shows how to use the super global variable \$GLOBALS:

```
<!DOCTYPE html>
<html>
<body>
<?php
$x = 75;
$v = 25;
function addition() {
 GLOBALS['z'] = GLOBALS['x'] + GLOBALS['y'];
addition();
echo $z;
?>
</body>
</html>
```

PHP \$_SERVER

\$_SERVER is a PHP super global variable which holds information about headers, paths, and script locations.

The example below shows how to use some of the elements in \$_SERVER:

```
<!DOCTYPE html>
<html>
<body>
<?php
echo $_SERVER['PHP_SELF']; //Returns the filename of the currently executing script
echo "<br>";
echo $_SERVER['SERVER_NAME']; //Returns the name of the host server
echo "<br>";
echo $ SERVER['HTTP HOST']; //Returns the Host header from the current request.
echo "<br>";
echo $_SERVER['HTTP_REFERER']; //Returns the complete URL of the current page
echo "<br>";
echo $_SERVER['HTTP_USER_AGENT'];
echo "<br>";
echo $_SERVER['SCRIPT_NAME']; //Returns the path of the current script
?>
</body></html>
```

Note: HTTP_HOST: It is fetched from HTTP request header obtained from the client request

PHP \$_REQUEST

- PHP \$_REQUEST is a PHP super global variable which is used to collect data after submitting an HTML form.
- The example below shows a form with an input field and a submit button. When a
 user submits the data by clicking on "Submit", the form data is sent to the file
 specified in the action attribute of the <form> tag.
- In this example, we point to this file itself for processing form data. If you wish to use another PHP file to process form data, replace that with the filename of your choice.
- Then, we can use the super global variable \$_REQUEST to collect the value of the input field:

```
<!DOCTYPE html>
<html>
<body>
<form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
 Name: <input type="text" name="fname">
<input type="submit">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  // collect value of input field
  $name = $_POST['fname'];
  if (empty($\sqrt{name})) {
    echo "Name is empty";
  } else {
    echo $name;
</body>
</html>
```

PHP \$_POST

- PHP \$_POST is a PHP super global variable which is used to collect form data after submitting an HTML form with method="post". \$_POST is also widely used to pass variables.
- The example below shows a form with an input field and a submit button. When a
 user submits the data by clicking on "Submit", the form data is sent to the file
 specified in the action attribute of the <form> tag.
- In this example, we point to the file itself for processing form data. If you wish to
 use another PHP file to process form data, replace that with the filename of your
 choice.
- Then, we can use the super global variable \$_POST to collect the value of the input field:

```
<!DOCTYPE html>
<html>
<body>
<form method="post" action="<?php echo $_SERVER['PHP_SELF'];?>">
 Name: <input type="text" name="fname">
 <input type="submit">
</form>
<?php
if ($_SERVER["REQUEST_METHOD"] == "POST") {
  // collect value of input field
  $name = $_POST['fname'];
  if (empty($\bar{name}) {
    echo "Name is empty";
  } else {
    echo $name;
</body>
</html>
```

PHP \$_GET

- PHP \$_GET is a PHP super global variable which is used to collect form data after submitting an HTML form with method="get".
- \$_GET can also collect data sent in the URL.
- Assume we have an HTML page that contains a hyperlink with parameters:

```
<html>
<body>
<a href="test_get.php?subject=PHP&web=W3schools.com">Test$GET</a>
</body>
</html>
```

 When a user clicks on the link "Test \$GET", the parameters "subject" and "web" are sent to "test_get.php", and you can then access their values in "test_get.php" with \$_GET.

The example below shows the code in "test_get.php":

```
<!DOCTYPE html>
<html>
<body>
<a href="test_get.php?subject=PHP&web=W3schools.com">Test$GET</a>
</body>
</html>
```

Form.php

```
<form action="display.php" method="post" id="nameform">
First Name: <input type="text" name="fname"></br>
Last Name: <input type="text" name="lname"></br>
<button type="submit" form="nameform" value="submit">Submit</button></button type="reset" value="Reset">Reset</button></form></form>
```

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

Display.php(using POST method)

```
<?php

$first_name = $_POST['fname'];
$last_name = $_POST['lname'];

echo $first_name;
echo $last_name;

?>
OR
```

Display1.php(using GET method)

```
<?php

$first_name = $_GET['fname'];
$last_name = $_GET['lname'];

echo $first_name;
echo $last_name;

?>
```

GET vs. POST

- Both GET and POST create an array (e.g. array(key1 => value1, key2 => value2, key3 => value3, ...))
- Keys are the names of the form controls and values are the input data from the user.
- Both GET and POST are treated as \$_GET and \$_POST.
- These are superglobals, which means that they are always accessible, regardless of scope

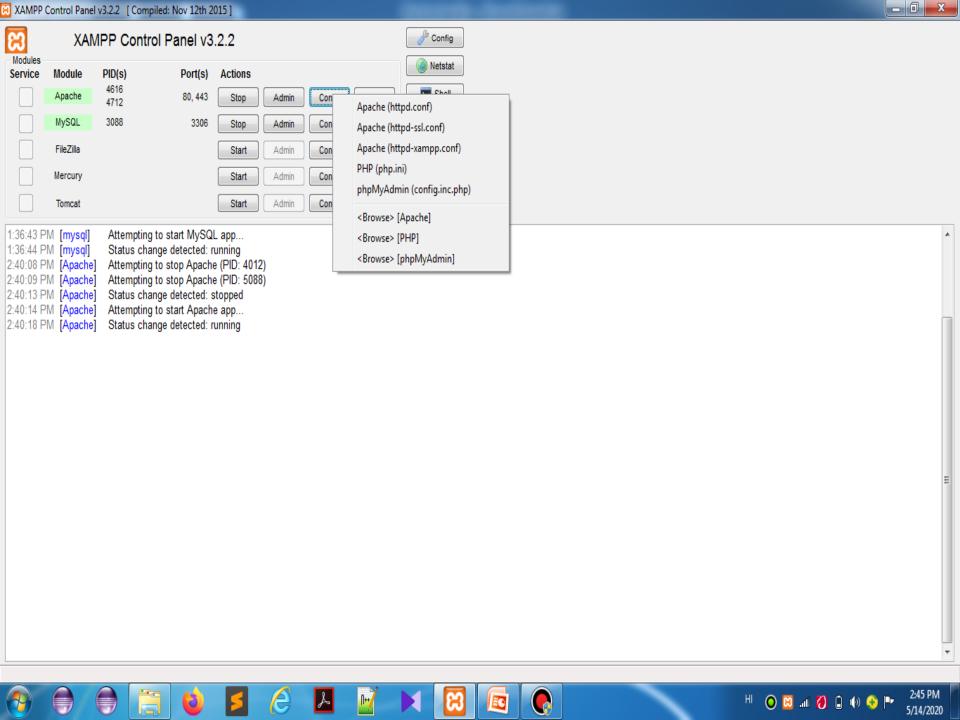
When to use GET?

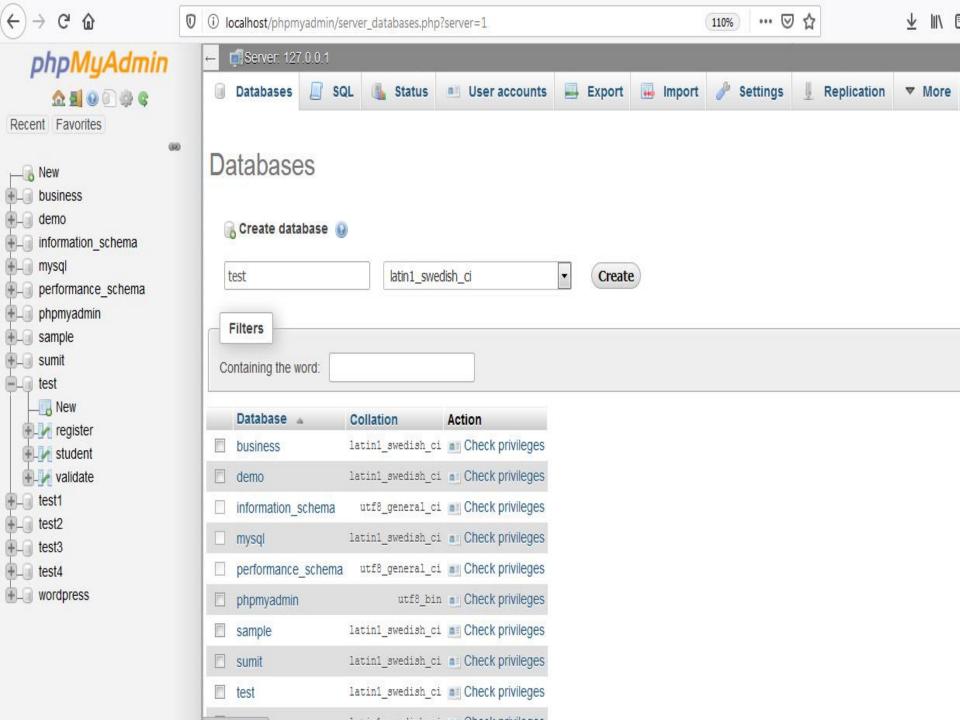
- Information sent from a form with the GET method is visible to everyone (all variable names and values are displayed in the URL).
- GET also has limits on the amount of information to send.
- The limitation is about 2000 characters.
- However, because the variables are displayed in the URL, it is possible to bookmark the page.
- GET may be used for sending non-sensitive data.

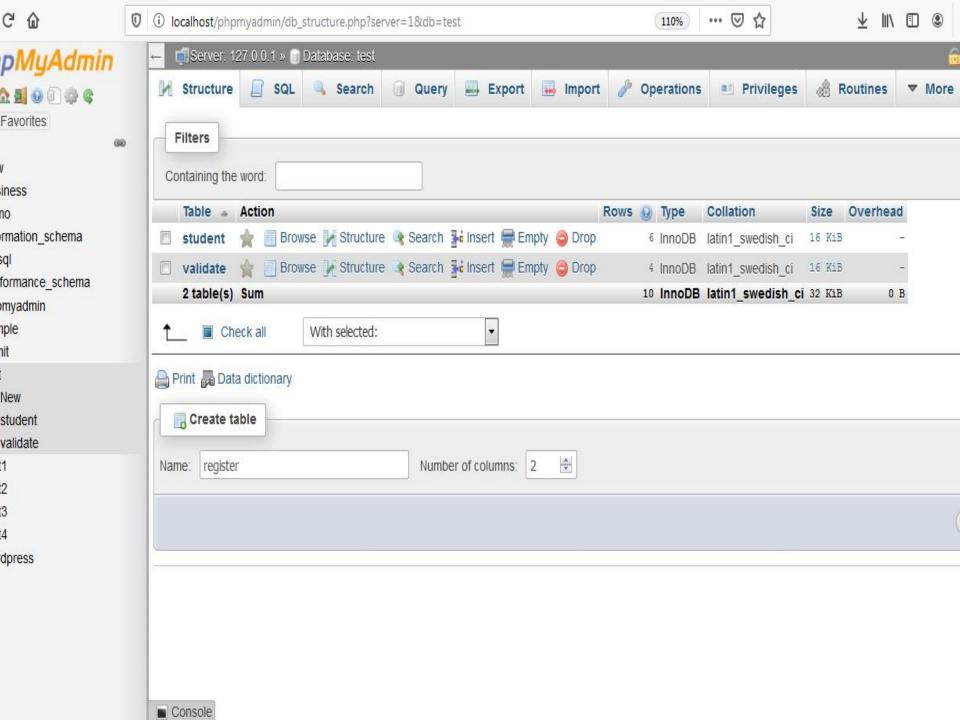
When to use POST?

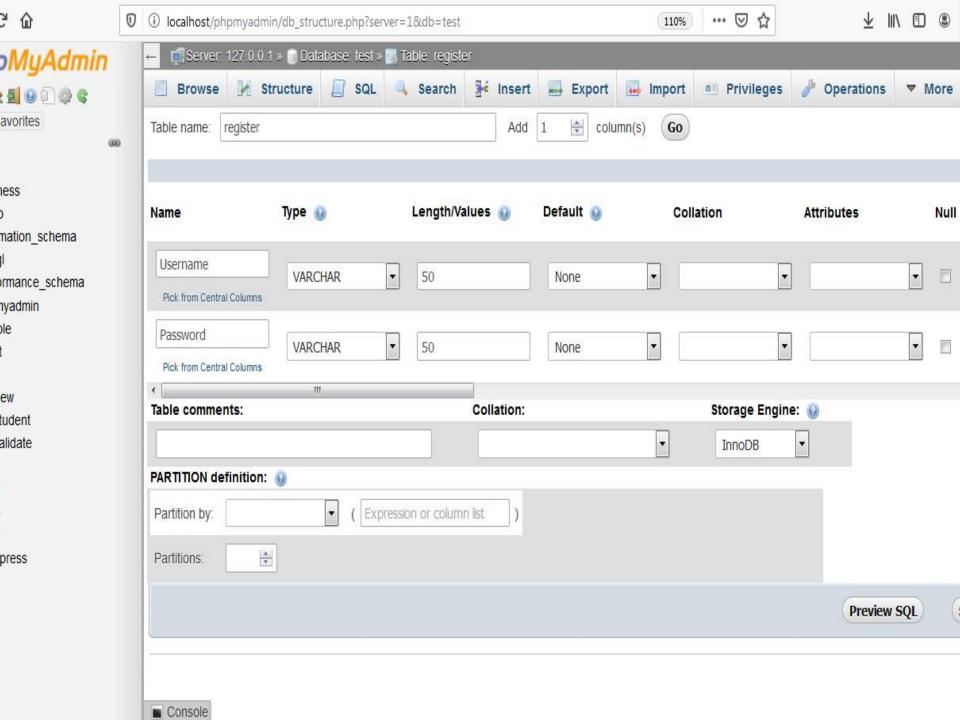
- Information sent from a form with the POST method is invisible to others (all names/values are embedded within the body of the HTTP request)
- **No limits** on the amount of information to send.
- Because the variables are not displayed in the URL, it is not possible to bookmark the page.

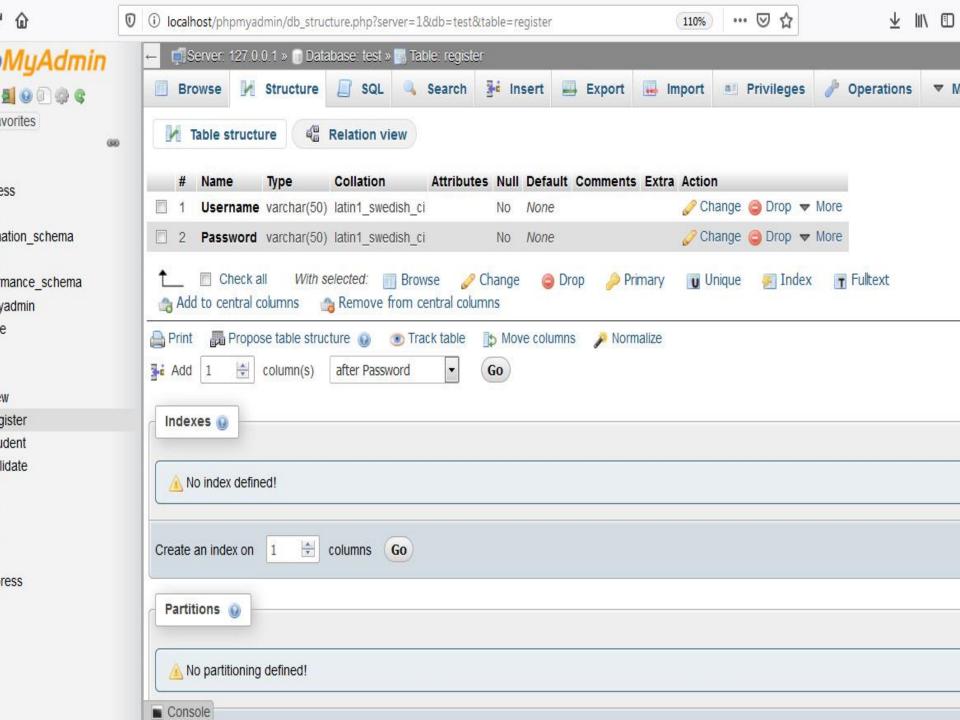
Database Connectivity





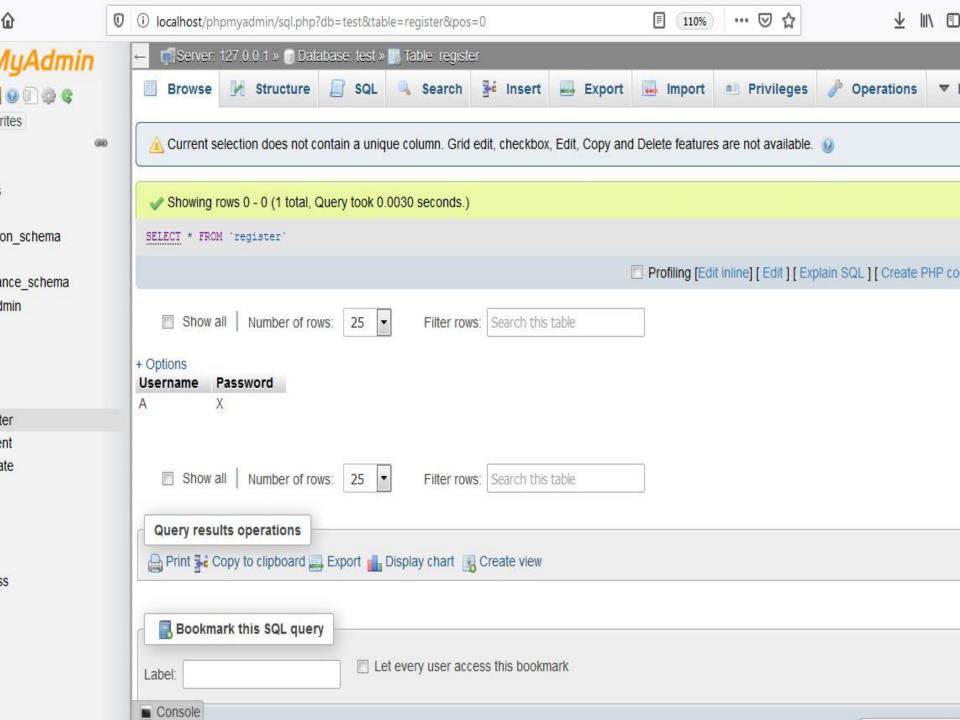






Insert Data into Database

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "test"; // Go to localhost/phpmyadmin and then create the database test
   there
// Creating connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect error) {
  die("Connection failed: ". $conn->connect error);
$sql = "INSERT INTO register (Username, Password) VALUES ('A', 'X')";
if ($conn->query($sql) === TRUE) {
  echo "New record created successfully";
} else {
  echo "Error: " . $sql . "<br>" . $conn->error;
$conn->close();
5>
```



Fetch data from the database

```
<?php
$servername = "localhost";
$username = "root";
$password = "";
$dbname = "test";
// Create connection
$conn = new mysqli($servername, $username, $password, $dbname);
// Check connection
if ($conn->connect error) {
  die("Connection failed: " . $conn->connect_error);
$sql = "SELECT Username, Password from register";
$result = $conn->query($sql);
```

Contd..

```
if ($result->num_rows > 0) {
  // output data of each row
  while($row = $result->fetch_assoc()) {
    echo "Username: " . $row["Username"]. " - Password: " .
   $row["Password"]."<br>";
} else {
  echo "0 results";
$conn->close();
?>
```

Note: \$result = \$conn->query(\$sql);

This line of code runs the query and puts the resulting data into a variable called \$result.

The function num_rows() checks if there are more than zero rows returned.

\$row = \$result->fetch_assoc()

The function fetch_assoc() puts all the results into an associative array that we can loop through.



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Inserting values into database using forms

Form1.html

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
 <form method="post" action= "insert.php" >
   <label for="users_email">Email</label>
       <tert="text"
        name="users_email" id="users_email">
     Contd..
```

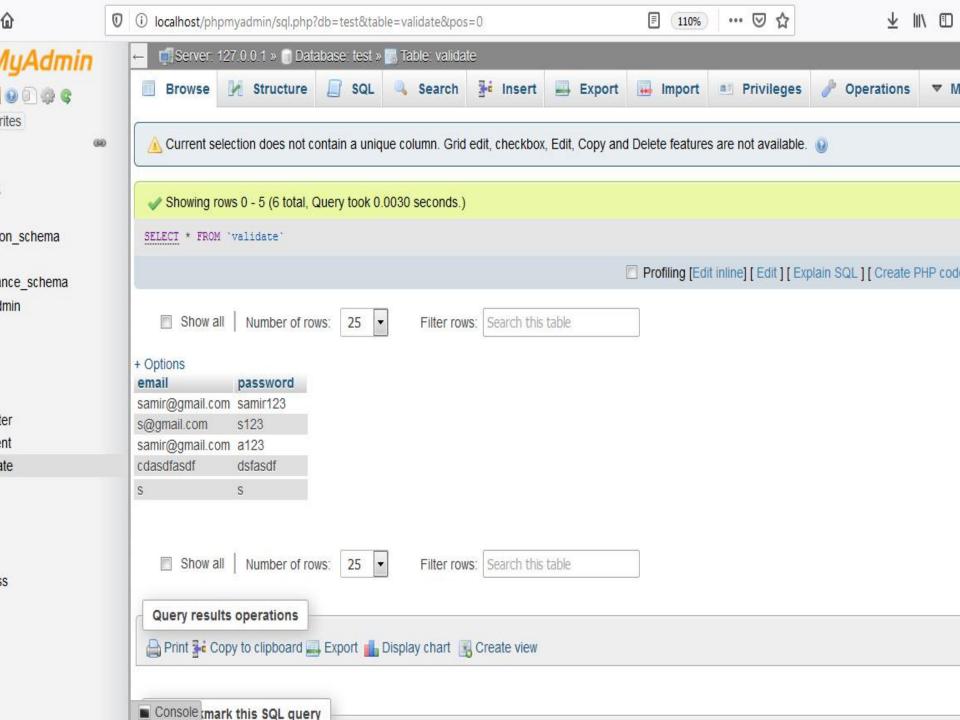
Contd...

Contd..

```
<label for="users_pass">Password</label>
      ="users_pass"
       type="password" id="users_pass"></input>
    <input type="submit" value="Submit"/>
      <te="reset" value="Reset"/>
    </form>
</body>
</html>
```

insert.php

```
<?php
// Grab User submitted information
$email = $_POST["users_email"];
$pass = $ POST["users pass"];
// Connect to the database
$conn = new mysqli("localhost","root","","test");
// Make sure we connected successfully
if($conn->connect error)
  die('Connection Failed'.$conn->connect error);
$sql= "insert into validate(email, password) Values('$email','$pass')";
$result = $conn->query($sql);
if($result)
   echo"Record added";
else echo"Record Could not be added";
```



Checking for login after fetching values from the database

Form1.html

```
<!DOCTYPE html>
<html>
<head>
<meta http-equiv="Content-Type" content="text/html; charset=ISO-8859-1">
</head>
<body>
 <form method="post" action= "login.php" >
   <label for="users_email">Email</label>
       ="text"
        name="users email" id="users email">
     Contd..
```

Contd...

Contd...

```
<label for="users_pass">Password</label>
      ="users_pass"
       type="password" id="users_pass"></input>
     <input type="submit" value="Submit"/>
      <terwiller="reset" value="Reset"/>
     </form>
</body>
</html>
```

login.php

```
<?php
// Grab User submitted information
$email = $_POST["users_email"];
$pass = $_POST["users_pass"];
// Connect to the database
$conn = new mysqli("localhost","root","","test");
// Make sure we connected successfully
if($conn->connect_error)
  die('Connection Failed'.$conn->connect_error);
Contd...
```

Contd...

```
$sql="select email, password from validate where email='$email'";
$result = $conn->query($sql);
if ($result-> num_rows>0)
   while($row=$result->fetch_assoc())
         if($row['email']==$email && $row['password']==$pass)
                   echo"You are a validated user";
         else
                   echo"Wrong password";
else echo "User does not exist";
?>
```



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Wrong password



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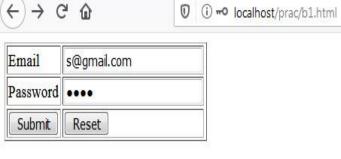


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User does not exist



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You are a validated user