# CST463 - WEB PROGRAMMING



## Module 4 (CO3, Cognitive Knowledge Level: Apply)

- Form processing and Business Logic
- Cookies- Sessions
- MySQL Integration-Connecting to MySQL with PHP
- Performing CREATE, DELETE, INSERT, SELECT and UPDATE operations on MySQL table
- Working with MySQL data
- Reading from Database-Dynamic Content.

## Form processing and Business Logic

## Form processing

Superglobal arrays are associative arrays predefined by PHP that hold variables acquired from user input, the environment or the web server, and are accessible in any variable scope. Some of PHP's superglobal arrays

Variable name	Description
\$_SERVER	Data about the currently running server.
\$_ENV	Data about the client's environment.
\$_GET	Data sent to the server by a get request.
\$_POST	Data sent to the server by a post request.
\$_COOKIE	Data contained in cookies on the client's computer.
\$GLOBALS	Array containing all global variables.

The arrays \$\_GET and \$\_POST retrieve information sent to the server by HTTP get and post requests, respectively, making it possible for a script to have access to this data when it loads another page

## Form processing

- when PHP is used for form handling, the PHP script is embedded in an XHTML document, like other uses of PHP.
- ➤ The recommended approach is to use the implicit arrays for form values, \$\_POST and \$\_GET.
- These arrays have keys that match the form element names and values that were input by the client.
- ► For example, if a form has a text box named phone and the form method is POST, the value of that element is available in the PHP script as follows:

- The built-in \$\_GET function is used to collect values from a form sent with method="get".
- ► Information sent from a form with the GET method is visible to everyone and has limits on the amount of information to send (max. 100 characters).

## Form processing \$\_POST Function

```
Name: smitha Age: 40 Submit
```

① localhost/dashboard/smith/testform.php

```
<?php
                                                                      ① localhost/dashboard/smith/testform.php
if(isset($_POST['submit']))
                                                         Welcome smitha
                                                         You are 40 years old.
if(($_POST["name"]!="")||($_POST["age"]!=""))
                                                          \leftarrow \rightarrow c
                                                                      ① localhost/dashboard/smith/testform.php
      echo "Welcome ". $ POST['name']. "<br />";
                                                         Name:
                                                                                                            Submit
                                                                                  Age:
      echo "You are ". $_POST['age']. " years old.";
      exit();
                                                          \leftarrow \rightarrow G

    localhost/

   else
                                                         invalid
    print "invalid";
                                  <html><body>
                                      <form method = "POST" action="testform.php">
                                       Name: <input type = "text" name = "name" />
else
                                              Age: <input type = "text" name = "age" />
                                              <input type="submit" name="submit" value="Submit">
                                          </form>
                                      </body>
                                   /html><?php}?>
```

## Form processing \$\_GET Function

<pre><?php if(isset(\$_GET['submit'])) {    if((\$_GET["name"]!="")  (\$_GET["age"]!=""))    {       echo "Welcome ". \$_GET['name']. " ";       echo "You are ". \$_GET['age']. " years old.";</pre>	← → C ① localhost/dashboard/smith/testform.php			
exit(); }else	Name: Age: Submit			
{print "invalid"; }				
<pre>else { ?&gt; <html><body></body></html></pre>	← → C ① localhost/c invalid			
<pre><input name="submit" type="submit" value="Submit"/></pre>	← → C (i) localhost/dashboard/smith/testform.php			
	Name: smitha Age: 40 Submit			
← → C ① localhost/dashboard/smith/testform.php?name=smitha&age=40&submit=Submit				

Welcome smitha You are 40 years old. <!DOCTYPE html> <!-- Fig. 19.13: form.html --> <!-- HTML form for gathering user input. --> <html> <head> <meta charset = "utf-8"> <title>Sample Form</title> <style type = "text/css"> label { width: 5em; float: left; } </style> </head> <body> <h1>Registration Form</h1> Please fill in all fields and click Register. <!-- post form data to form.php --> <form method = "post" action = "form.php"> <h2>User Information</h2> <!-- create four text boxes for user input --> <div><label>First name:</label> <input type = "text" name = "fname"></div> <div><label>Last name:</label> <input type = "text" name = "lname"></div> <div><label>Email:</label> <input type = "text" name = "email"></div> <div><label>Phone:</label> <input type = "text" name = "phone"</pre> placeholder = "(555) 555-5555"></div> </div> <h2>Publications</h2> Which book would you like information about? <!-- create drop-down list containing book names --> <select name = "book"> <option>Internet and WWW How to Program

```
<option>C++ How to Program</option>
        <option>Java How to Program
        <option>Visual Basic How to Program
     </select>
     <h2>Operating System</h2>
     Which operating system do you use?
     <!-- create five radio buttons -->
     <input type = "radio" name = "os" value = "Windows"</p>
           checked>Windows
        <input type = "radio" name = "os" value = "Mac OS X">Mac OS
        <input type = "radio" name = "os" value = "Linux">Linux
        <input type = "radio" name = "os" value = "Other">Other
     <!-- create a submit button -->
     <input type = "submit" name = "submit" value = "Register">
  </form>
</body>
```

</html>

The form is filled out with an incorrect phone number



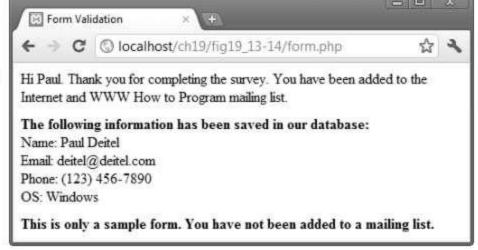
```
<!DOCTYPE html>
<!-- Fig. 19.14: form.php -->
<!-- Process information sent from form.html. -->
<html>
  <head>
     <meta charset = "utf-8">
     <title>Form Validation</title>
     <style type = "text/css">
                { margin: Opx; }
        .error { color: red }
        p.head { font-weight: bold; margin-top: 10px; }
     </style>
  </head>
  <body>
     <?php
        // determine whether phone number is valid and print
        // an error message if not
        if (!preg_match( "/^\([0-9]{3}\) [0-9]{3}-[0-9]{4}$/",
           $ POST["phone"]))
        {
           print( "Invalid phone number
              A valid phone number must be in the form
              (555) 555-5555Click the Back button,
              enter a valid phone number and resubmit.
              Thank You.</body></html>");
           die(); // terminate script execution
        }
     ?><!-- end PHP script -->
     Hi <?php print( $_POST["fname"] ); ?>. Thank you for
        completing the survey. You have been added to the
```

```
<?php print( $_POST["book"] ); ?>mailing list.
The following information has been saved
  in our database:
Name: <?php print( $_POST["fname"] );</p>
  print( $_POST["Iname"] ); ?>
Email: <?php print( "$email" ); ?>
Phone: <?php print( "$phone" ); ?>
OS: <?php print( $_POST["os"] ); ?>
This is only a sample form.
  You have not been added to a mailing list.
```

 a) Submitting the form in Fig. 19.13 redirects the user to form.php, which gives appropriate instructions if the phone number is in an incorrect format

b) The results of form.php after the user submits the form in Fig. 19.13 with a phone number in a valid format



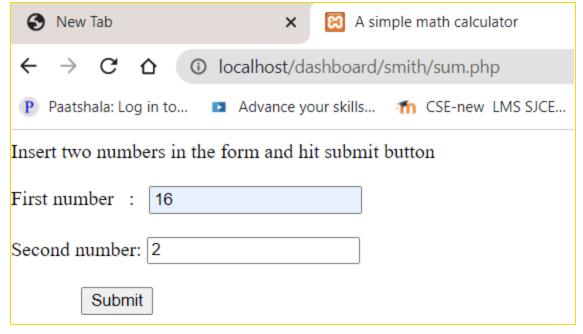


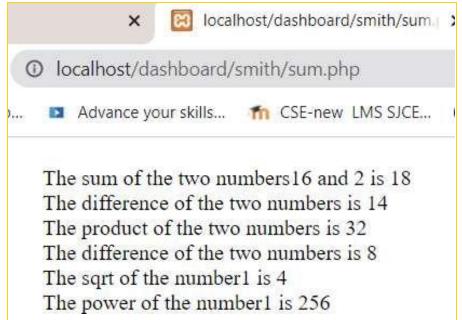
Use business logic to ensure that invalid information is not stored in databases. Validate important or sensitive form data on the server, since JavaScript may be disabled by the client.

Some data, such as passwords, must always be validated on the server side

## Simple PHP Program to generate a simple calculator

► To find basic mathematical operations on two numbers





## Simple PHP Program to generate a simple calculator

```
C: > xampp > htdocs > dashboard > smith > 💏 sum.php
      <?php
  1
      if(isset($ POST['submit']))
  3
      { $num1 = $_POST['num1'];
  4
          $num2 = $ POST['num2'];
          sum = snum1 + snum2;
  5
      $diff = $num1 - $num2;
  6
      mul = mum1 * mum2;
      $div = $num1 / $num2;
  8
      $sq=sqrt($num1);
  9
      $po=pow($num1,$num2);
 10
      echo "<br/>The sum of the two numbers" .$num1." and ".$num2. " is ". $sum;
 11
      echo "<br/>The difference of the two numbers is ". $diff;
 12
      echo "<br/>The product of the two numbers is ". $mul;
 13
      echo "<br/>The difference of the two numbers is ". $div;
 14
 15
      echo "<br/>The sqrt of the number1 is ". $sq;
      echo "<br/>The power of the number1 is ". $po;
 16
 17
      else
 18
 19
 20
```

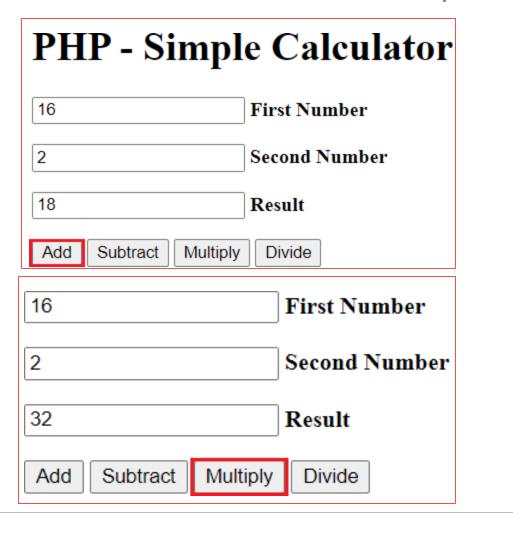
## Simple PHP Program to generate a simple calculator

▶ To find basic mathematical operations on two numbers

```
<html><title>A simple math calculator</title>
21
    <body>Insert two numbers in the form and hit submit button <br><br>
22
    <form action="sum.php" method="post">
23
    First number       <input name="num1" type="text" /><br> <br>
24
    Second number: <input name="num2" type="text" /><br/> <br/> <br/>
25
                  <input type="submit" name="submit" />
26
27
    </form>
28
    </body>
29
    </html>
30
31
    <?php
32
33
```

## Modified PHP Program to generate a simple calculator

▶ To find basic mathematical operations on two numbers



-	
16	First Number
2	Second Number
14	Result
Add Subtract Multiply	Divide
	<u> </u>

16	First Number
2	Second Number
8	Result
Add Subtract Multiply	Divide

```
C: > xampp > htdocs > dashboard > smith > 💏 calculator.php
                            <?php
          1
                            if(isset($_POST["operator"]))
          3
                            {\first num = \frac{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\partial}{\parti
                            $second_num = $_POST['second_num'];
          4
          5
                            $operator = $_POST['operator'];
                            $result = '';}
          6
          7
                            else
                             {\first_num = "";\second_num = "";\soperator = "";\result = '';\}
          8
          9
                             if (is_numeric($first_num) && is_numeric($second_num)) {
                                              switch ($operator) {
     10
     11
                                                                case "Add":
     12
                                                                            $result = $first num + $second num;
     13
                                                                            break;
     14
                                                                case "Subtract":
     15
                                                                            $result = $first num - $second num;
     16
                                                                                 break;
                                                                case "Multiply":
     17
                                                                                $result = $first num * $second num;
     18
     19
                                                                                 break;
                                                                case "Divide":
      20
                                                                                 $result = $first_num / $second_num;
      21
      22
      23
                             }?>
```

Modified PHP Program to generate a simple calculator

```
<html><body><h1>PHP - Simple Calculator</h1>
25
26
           <form action="calculator.php" method="post" >
27
                 >
                     <input type="number" name="first num" id="first num" required="required"</pre>
28
                      value="<?php echo $first num; ?>" /> <b>First Number</b>
29
30
                 31
                 >
                     <input type="number" name="second num" id="second num" required="required"</pre>
32
33
                     value="<?php echo $second num; ?>" /> <b>Second Number</b>
34
                 35
                 >
36
                     <input readonly="readonly" name="result" value="<?php echo $result;?>">
37
                     <b>Result</b>
38
                 39
                 <input type="submit" name="operator" value="Add" />
40
                 <input type="submit" name="operator" value="Subtract" />
41
                 <input type="submit" name="operator" value="Multiply" />
42
                 <input type="submit" name="operator" value="Divide" />
43
           </form>
     </body></html>
44
```

## **Cookies and Session**

#### **Cookies**

- A cookie is often used to identify a user.
- A cookie is a piece of information that's stored by a server in a text file on a client's computer to maintain information about the client during and between browsing sessions.
- Each time the same computer requests a page with a browser, it will send the cookie too.
- With PHP, you can both create and retrieve cookie values.
- The server is given this information when the browser makes subsequent requests for Web resources from the server.
- Cookies allow the server to present a customized interface to the client.
- They also allow the server to connect requests from a particular client to previous requests, thereby connecting sequences of requests into a session.

#### **Cookies**

- A cookie is a small object of information that consists of a name and a textual value.
- ► A cookie is created by some software system on the server.
- A message from a browser to a server is a request; a message from a server to a browser is a response. The header part of an HTTP communication can include cookies. So, every request sent from a browser to a server, and every response from a server to a browser, can include one or more cookies.
- ► At the time it is created, a cookie is assigned a lifetime. When the time a cookie has existed reaches its associated lifetime, the cookie is deleted from the browser's host machine.
- ► a particular cookie is information that is exchanged exclusively between one specific browser and one specific server.

A cookie is set in PHP with the setcookie function. This function takes one or more parameters.

### setcookie(name, value, expire, path)

- The first parameter, which is mandatory, is the cookie's name given as a string. The second, if present, is the new value for the cookie, also a string. If the value is absent, setcookie undefines the cookie. The third parameter, when present, is the expiration time in seconds for the cookie, given as an integer.
- ► The default value for the expiration time is zero, which specifies that the cookie is destroyed at the end of the current session

### setcookie("valid", "true", time() + 86400);

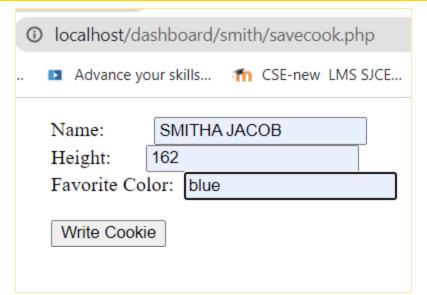
► This call creates a cookie named "valid" whose value is "true" and whose lifetime is one day (86,400 is the number of seconds in a day).

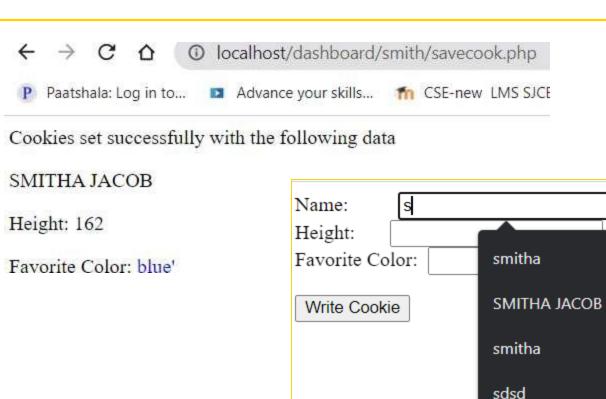
```
<?php
     $cookie name ="user";
     $cookie value ="admin123";
     setcookie($cookie_name, $cookie_value, time() + (86400*30),"/");
     ?>
     <html>
         <body>
             <?php
             if(!isset($ COOKIE[$cookie name]))
10
                  echo "Cookie named ". $cookie_name."is not set!";
11
12
             else
13
14
                 echo "Cookie $cookie name is set!<br>";
15
                  echo "Value is: ".$ COOKIE[$cookie name];
16
17
18
         </body>
19
     </html>
20
```

#### Cookies- setcookie-delete function

- ▶ The example creates a cookie named "user" with the value "admin123".
- ▶ The cookie will expire after 30 days (86400 \* 30).
- ► The "/" means that the cookie is available in entire website (otherwise, select the directory you prefer).
- retrieve the value of the cookie "user" (using the global variable \$\_COOKIE).
- use the isset() function to find out if the cookie is set:
- ► To delete a cookie, use setcookie() function with an expiration date in the past:
- Example

- ▶ In PHP, cookie values are treated much like form values.
- All cookies that arrive with a request are placed in the implicit \$\_COOKIES array, which has the cookie names as keys and the cookie values as values.
- most browsers have a limit on the number of cookies that will be accepted from a particular server site.
- ► In many cases, information about a session is needed only during the session
- Rather than using one or more cookies, a single session array can be used to store information about the previous requests of a client during a session.
- ▶ In particular, session arrays often store a unique session ID for a session.

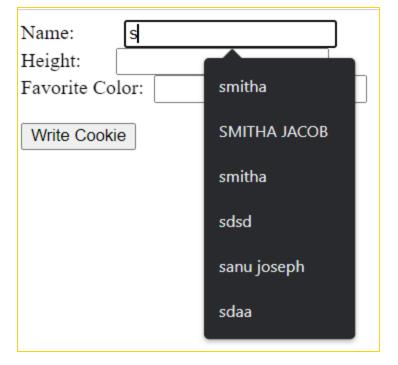




sanu joseph

sdaa

```
savecook.php
      k?php
     if(isset($ POST["submit"]))
         define( "FIVE DAYS", 60 * 60 * 24 * 5 );
         // define constant
 6
         // write each form field's value to a cookie and set the
         // cookie's expiration date
         setcookie( "name", $ POST["name"], time() + FIVE DAYS );
 8
         setcookie( "height", $ POST["height"], time() + FIVE DAYS );
          setcookie( "color", $ POST["color"], time() + FIVE DAYS );
10
11
          $name=$ COOKIE["name"];
          $height=$ COOKIE["height"];
12
13
          $color=$_COOKIE["color"];
14
          echo "Cookies set successfully with the following data";
          echo "$name Height: $heightFavorite Color:
15
          <span style = 'color: $color'> $color'</span> ";
16
17
18
     else
19
20
      ?>
```



```
<!DOCTYPE html>
21
     <html lang="en">
22
23
     <head>
         <meta charset="UTF-8">
24
25
         <meta http-equiv="X-UA-Compatible" content="IE=edge">
         <meta name="viewport" content="width=device-width, initial-scale=1.0">
26
         <title>Document</title>
27
     </head>
28
     <body>
29
     <form method = "post" action = "savecook.php">
30
31
      <div><label>Name:</label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
      <input type = "text" name = "name"><br/>
32
      <label>Height:</label>&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;&nbsp;
33
34
      <input type = "text" name = "height"><br/>>
35
      <label>Favorite Color:</label>&nbsp;
36
      <input type = "text" name = "color"><br/>>
      <input type = "submit" name="submit" value = "Write Cookie">
37
      </form>
38
     </body>
39
     </html>
40
41
     <?php
     }?>
42
```

#### Session

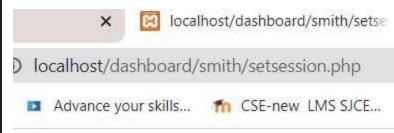
- ► When you work with an application, you open it, do some changes, and then you close it. This is much like a Session.
- ► The computer knows who you are. It knows when you start the application and when you end.
- ► But on the internet the web server does not know who you are or what you do, because the HTTP address doesn't maintain state.
- Session variables solve this problem by storing user information to be used across multiple pages (e.g. username ,pwd etc). By default, session variables last until the user closes the browser.
- So; Session variables hold information about one single user, and are available to all pages in one application.

#### Session

- ➤ One significant way that session arrays differ from cookies is that they can be stored on the server, whereas cookies are stored on the client.
- ▶ In PHP, a session ID is an internal value that identifies a session.
- Session IDs need not be known or handled in any way by PHP scripts.
- PHP is made aware that a script is interested in session tracking by calling the session\_start function, which takes no parameters. The first call to session\_start in a session causes a session ID to be created and recorded.
- On subsequent calls to session\_start in the same session, the function retrieves the \$\_SESSION array, which stores any session variables and their values that were registered in previously executed scripts in this session.
- ► A session is started with the session\_start() function.
- Session variables are set with the PHP global variable: \$\_SESSION

#### **Set Session variables**

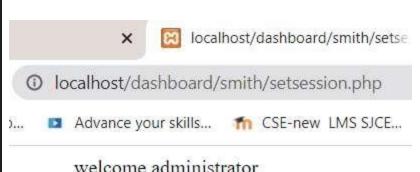
```
C: > xampp > htdocs > dashboard > smith > * setsession.php
       <?php
      // Start the session
       session start();
  3
       ?>
       <!DOCTYPE html>
       <html><body>
  6
           <?php
  8
           $ SESSION["uname"] ="admin";
  9
           $_SESSION["pwd"] ="admin123";
 10
           echo "Session variables are set.";
 11
           ?>
 12
       </body></html>
 13
```



Session variables are set.

## **Modify Session variables**

```
C: > xampp > htdocs > dashboard > smith > ** setsession.php
       <?php
      // Start the session
      session_start();
  4
       <!DOCTYPE html>
       <html><body>
           <?php
  8
           // to change a session variable, just overwrite it
           $ SESSION["uname"] ="administrator";
 10
           print ("welcome ".$_SESSION["uname"] );
 11
 12
       </body></html>
 13
```

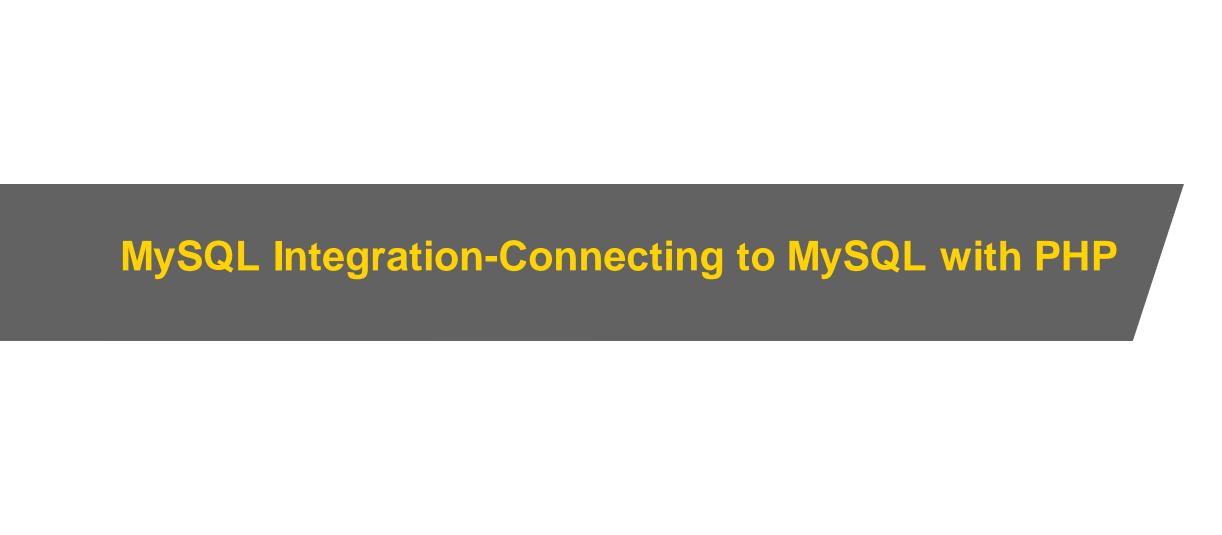


## **Destroy a Session**

- ► To remove all global session variables and destroy the session, use session\_unset() and session\_destroy():
- Example

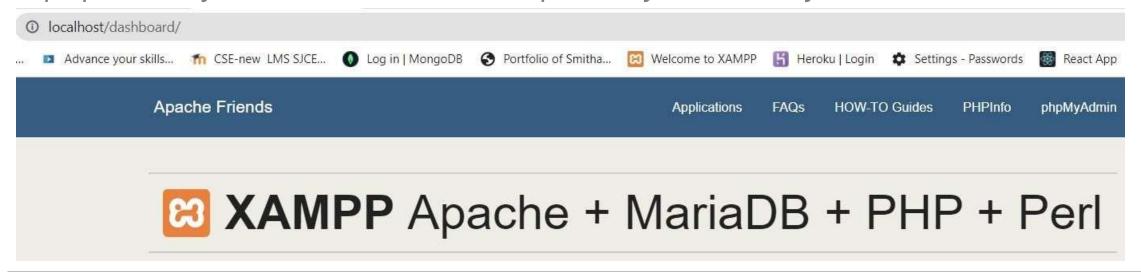
```
// Start the session
     session_start();
     <?>
     <!DOCTYPE html>
     <html><body>
         <?php
          // remove all session variables
 8
         session_unset();
 9
         // destroy the session
10
              session_destroy();
11
              echo "session cleared";
12
13
     </body></html>
14
```





## Connecting PHP to MySQL

- ► When users enter any data into the fields of your forms, you need to collect that information and add it to the database. To do that, you want to know how to connect PHP with MySQL.
- In order to connect a MySQL database to PHP, you require MySQL on your computer, a tool to create and manage databases, and PHP installed. The most popular ways to connect a PHP script to MySQL are MySQli and PDO



## Connecting PHP to MySQL

#### What is MySQL?

- MySQL is an open-source relational database management system (RDBMS). It is the most popular database system used with PHP.
- Structured Query Language (SQL). The data in a MySQL database are stored in tables that consist of columns and rows.
- MySQL is a database system that runs on a server. MySQL is ideal for both small and large applications. MySQL is a very fast, reliable, and easy-to-use database system. It uses standard SQL. MySQL compiles on a number of platforms.
- ▶ How we can connect PHP to MySQL?
- ▶ PHP 5 and later can work with a MySQL database using:
- MySQLi extension (the 'i' is abbreviation for improved)
- PDO (PHP Data Objects)

#### Connecting PHP to MySQL

#### Connection to MySQL using MySQLi

- ▶ PHP provides mysql\_connect() function to open a database connection.
- ► This function takes a single parameter, which is a connection returned by the mysql\_connect() function.
- ➤ You can disconnect from the MySQL database anytime using another PHP function mysql\_close().
- There is also a procedural approach of MySQLi to establish a connection to MySQL database from a PHP script.

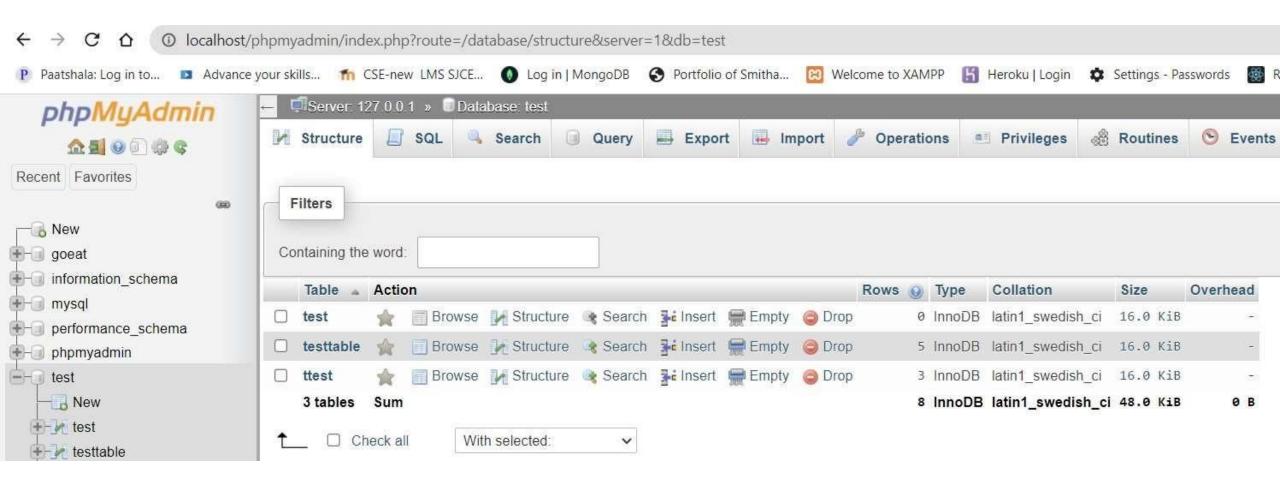
#### Form processing with DB- Making a Connection

► The basic syntax for a connection to MySQL is as follows:

```
$mysqli = mysqli_connect("hostname", "username", "password", "database");
```

- The value of \$mysqli is the result of the function and is used in later functions for communicating with MySQL.
- With sample values inserted, the connection code looks like this: \$mysqli = mysqli\_connect("localhost", "root", " ", "test");
- It creates a new connection in line 2 and then tests to see whether an error occurred. If an error occurred, an error message and uses the mysqli\_connect\_error() function to print the message.

#### Form processing with DB- Making a Connection



#### Form processing with DB- Making a Connection with 'test' DB

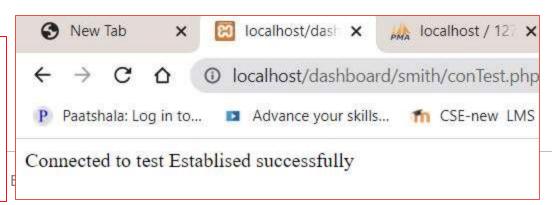
```
<?php
     $servername = "localhost";
     $username = "root";
     $password = "";
     $dbname="test";
     // Connection
     $conn= mysqli_connect($servername,$username, $password,$dbname);
     // For checking if connection is successful or not
     if ($conn->connect_error) {
10
     die("Connection failed: ". $conn->connect error);
11
     echo "Connected to ".$dbname." Establised successfully";
     ?>
```

MySQL\_i\_Connect\_error

Warning: mysqli::\_\_construct(): (HY000/1045): Access denied for user 'username'@'localhost' (using password: NO) in

C:\xampp\htdocs\dashboard\smith\conTest.php on line 7

Connection failed: Access denied for user 'username'@'localhost' (using password: NO)



#### Form processing with DB- Making a Connection

► The basic syntax for a connection to MySQL is as follows:

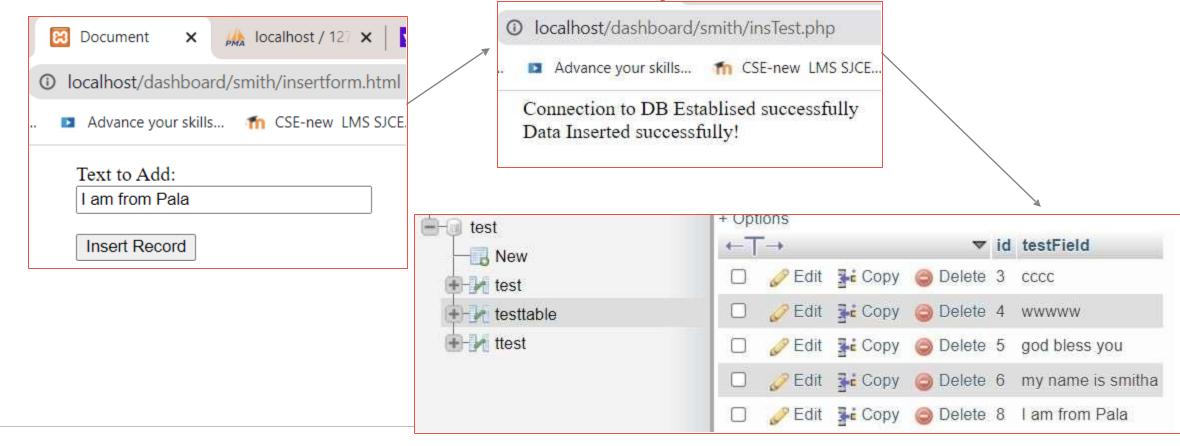
```
$mysqli = mysqli_connect("hostname", "username", "password", "database");
```

- The value of \$mysqli is the result of the function and is used in later functions for communicating with MySQL.
- With sample values inserted, the connection code looks like this: \$mysqli = mysqli\_connect("localhost", "root", " ", "test");
- It creates a new connection in line 2 and then tests to see whether an error occurred. If an error occurred, an error message and uses the mysqli\_connect\_error() function to print the message.

#### Form processing with DB-Executing Queries-Insert records

PHP to MySQL connection is required to inserts information into our database.

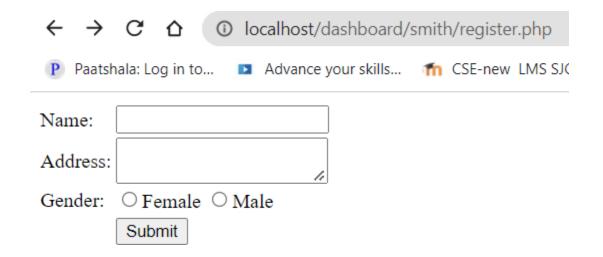
► Also we should use INSERT INTO ... VALUES syntax for that:

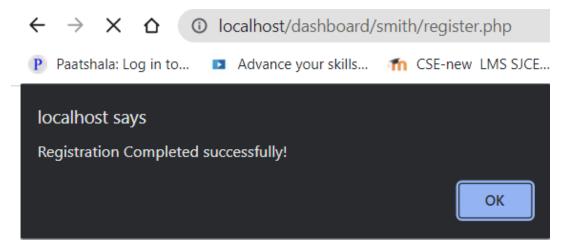


#### Form processing with DB-Executing Queries-Insert records

```
<?php
     $conn = mysqli_connect("localhost", "root", "", "test");
     // For checking if connection is successful or not
 3
     if ($conn->connect error) {
 4
     die("Connection failed: ". $conn->connect error);
 5
 6
     echo "Connection to DB Establised successfully";
      $sql = "INSERT INTO testTable(testField) VALUES ('$ POST[testfield]')";
 8
             $res = mysqli_query($conn, $sql);
 9
             //if ($conn->query($sql) === TRUE)
10
             if($res===TRUE)
11
12
                  echo '<br/>Data Inserted successfully!';
13
14
15
             else
16
17
                 echo "Error: " . $sql . "<br>" . $conn->error;
18
              $conn->close();
19
20
21
      ?>
```

#### Form processing-Registration form





#### Form processing with DB- Executing Queries

- ► The mysqli\_ query() function in PHP is used to send your SQL query to MySQL
- the mysqli\_error() function returns a helpful error message when you make a mistake

#### Form processing-Registration form

```
<?php
      if(isset($ POST["submit"]))
         { // Check if we click on SUBMIT BUTTON
         $servername = "localhost";
         $username = "root";
         $password = "";
         $dbname = "test";
         $conn = new mysqli($servername, $username, $password, $dbname);
         if ($conn->connect error)
9
11
                die("Connection failed: " . $conn->connect error);
12
             }// insert Query
             $sql = "INSERT INTO ttest(name,address,gender) VALUES ('$ POST[name]', '$ POST[address]', '$ POST[gender]')";
13
             $res = mysqli query($conn, $sql);
14
             //if ($conn->query($sql) === TRUE)
15
             // {
                 if($res===TRUE)
17
18
                  echo '<script>alert("Data Inserted successfully!");</script>';
19
21
             else
22
                 echo "Error: " . $sql . "<br>" . $conn->error;
23
              $conn->close();
25
         else
27
         ?>
29
```

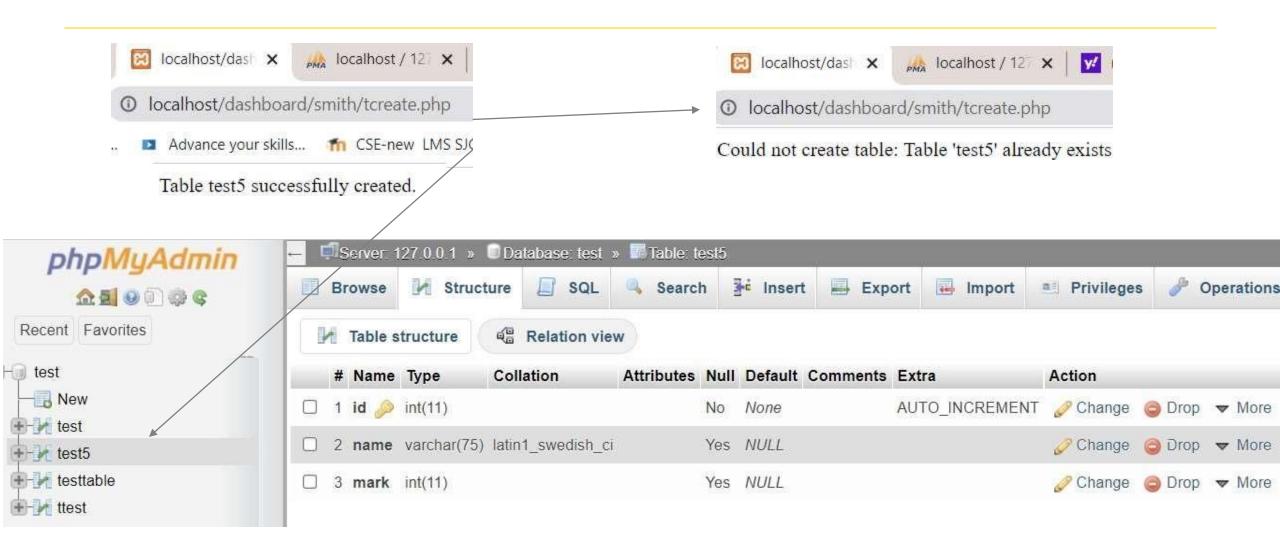
#### Form processing-Registration form

```
<form method="post" action="register.php">
30 v 
31 🗸
     >
32
       Name: 
       <input type="text" name="name">
33
34
     Address:
35 🗸
       <textarea name="address"></textarea>
     37
     >
38 V
         Gender:
         <input type="radio" name="gender" value="female">Female
         41
42
     43
     44
     45
46 V </form>
   <?php
47
  ?>
49
```

#### A Script to Create a Table

```
1:
    <?php
2:
    $mysqli = mysqli connect("localhost", "testuser", "somepass", "testDB");
3:
    if (mysqli connect errno()) {
4:
5:
        printf("Connect failed: %s\n", mysqli connect error());
        exit();
6:
    } else {
7:
8:
         $sql = "CREATE TABLE testTable
               (id INT NOT NULL PRIMARY KEY AUTO_INCREMENT,
9:
               testField VARCHAR(75))";
10:
11:
         $res = mysqli query($mysqli, $sql);
12:
         if ($res === TRUE) {
13:
14:
                echo "Table testTable successfully created.";
15:
         } else {
16:
             printf("Could not create table: %s\n", mysqli error($mysqli));
17:
18:
19:
         mysqli close($mysqli);
20:
21: ?>
```

#### Form processing with DB- Creating Tables



#### Form processing with DB- Creating Tables

```
C: > xampp > htdocs > dashboard > smith > 💏 tcreate.php
      <?php
  1
       $mysqli = mysqli_connect("localhost", "root", "", "test");
  3
       if (mysqli_connect_errno()) {
       printf("Connect failed: %s\n", mysqli_connect_error());
  5
       exit();
       } else {
  6
       $sql = "CREATE TABLE test5
       (id INT NOT NULL PRIMARY KEY AUTO INCREMENT,
  8
       name VARCHAR(75), mark INT)";
  9
       $res = mysqli_query($mysqli, $sql);
 10
       if ($res === TRUE) {
 11
 12
        echo "Table testTable successfully created.";
       } else {
 13
        printf("Could not create table: %s\n", mysqli_error($mysqli));
 14
 15
       mysqli_close($mysqli);
 16
 17
 18
        ?>
```

#### A Script to Insert a Record

```
<?php
1:
2:
    $mysqli = mysqli connect("localhost", "testuser", "somepass", "testDB");
3:
    if (mysqli connect errno()) {
4:
        printf("Connect failed: %s\n", mysqli connect error());
5:
        exit();
6:
    } else {
7:
        $sql = "INSERT INTO testTable (testField) VALUES ('some value')";
8:
        $res = mysqli_query($mysqli, $sql);
9:
10:
         if ($res === TRUE) {
11:
12:
                 echo "A record has been inserted.";
         } else {
13:
             printf("Could not insert record: %s\n", mysqli error($mysqli));
14:
15:
                                                                  ① localhost/dashboard/smith/ttinsert.php
                                     Text to Add:
16:
                                     god bless you
17:
         mysqli close($mysqli);
                                                                   18:
                                      Insert Record
                                                                   A record has been inserted.
19:
     ?>
```

### Form processing with DB- Inserting Tables

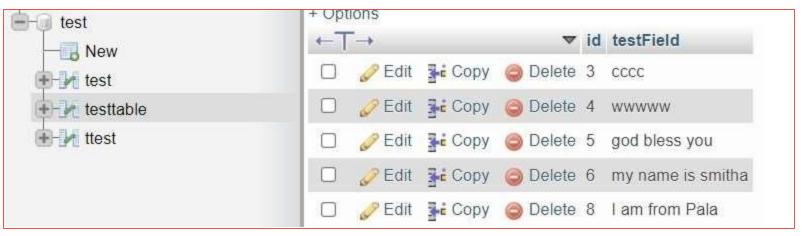
```
<!DOCTYPE html>
     <html lang="en">
   > <head>...
     </head>
8
     <body>
         <form action="ttinsert.php" method="post">
10
             <label for="testfield">Text to Add:</label><br>
11
             <input type="text" id="testfield" name="testfield" size="30">
12
             <button type="submit" name="submit" value="insert">Insert Record</button>
13
14
             </form>
     </body>
15
     </html>
16
                                                   ① localhost/dashboard/smith/insertform.html
                                                     Text to Add:
                                                     wwwww
                                                     Insert Record
```

#### Form processing with DB- Inserting Tables

```
<?php
      $mysqli = mysqli connect("localhost", "root", "", "test");
      if (mysqli connect errno())
      printf("Connect failed: %s\n", mysqli connect error());
      exit();
      else
10
       $sql = "INSERT INTO testTable (testField) VALUES ('$ POST[testfield]')";
11
12
     $res = mysqli query($mysqli, $sql);
13
      if ($res === TRUE)
14
15
      echo "A record has been inserted.";
16
17
     else
18
19
      printf("Could not insert record: %s\n", mysqli error($mysqli));
20
21
     mysqli close($mysqli);
22
23
      ?>
24
```

#### Select Data From a MySQL Database

- ➤ The SELECT statement is used to select data from one or more tables: SELECT column\_name(s) FROM table\_name
- or we can use the \* character to select ALL columns from a table: SELECT \* FROM table\_name
- Select Data With MySQLi can also be done in two ways
  - MySQLi Object-oriented
  - MySQLi Procedural

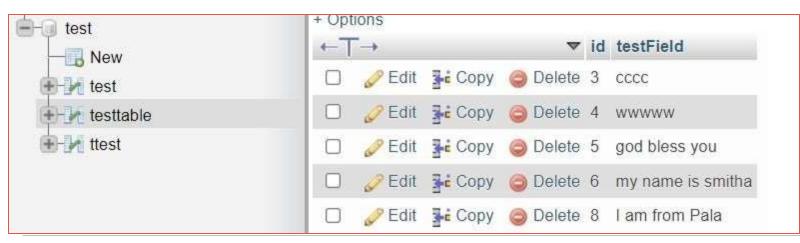


#### Select Data From a MySQL Database-MySQLi Object-oriented

```
selTest.php
     <?php
     $conn = mysqli connect("localhost", "root", "", "test");
     // For checking if connection is successful or not
 4
     if ($conn->connect error) {
     die("Connection failed: ". $conn->connect error);
 5
 6
     echo "Connection to DB Establised successfully";
     $sql = "SELECT * FROM testTable";
 8
 9
     $result = $conn->query($sql);
10
     if ($result->num rows > 0) {
11
      // output data of each row
12
       13
14
       while($row = $result->fetch assoc()) {
         echo "....".$row["id"]. "......" . $row["testField"]. "<br>";
15
16
     } else {
17
18
       echo "0 results";
19
     $conn->close();
20
21
     ?>
```

#### Select Data From a MySQL Database

- ► First, we set up an SQL query that selects the id, testField columns from the testTable. The next line of code runs the query and puts the resulting data into a variable called \$result.
- ▶ Then, the function num\_rows() checks if there are more than zero rows returned.
- If there are more than zero rows returned, the function fetch\_assoc() puts all the results into an associative array that we can loop through. The while() loop loops through the result set and outputs the data from the id, testField columns.

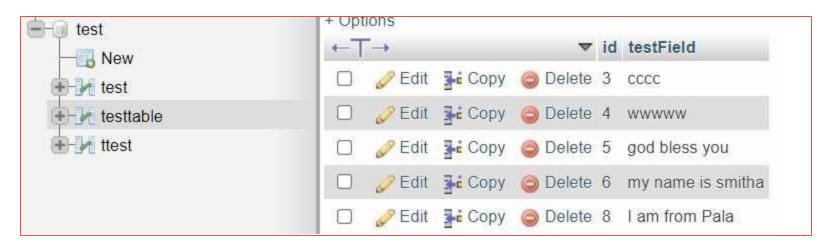


#### Select Data From a MySQL Database-MySQLi Procedural

```
selTestPro.php
                                                              ① localhost/dashboard/smith/selTestPro.php
     <?php
                                                                $conn = mysqli_connect("localhost", "root", "", "test");
     // For checking if connection is successful or not
                                                                   My Message
     if (!$conn) {
                                                                   cccc
        die("Connection failed: " . mysqli connect error());
 5
                                                                   wwwww
 6
                                                                   god bless you
     $sql = "SELECT * FROM testTable";
                                                                   my name is smitha
     $result = mysqli_query($conn, $sql);
 8
                                                                   I am from Pala
     if (mysqli num rows($result) > 0) {
 9
10
      // output data of each row
       echo "idMy Message" ;
11
12
      while($row = mysqli fetch assoc($result)) {
        echo "".$row["id"]. "".$row["testField"]. "";
13
14
       echo "";
15
16
     } else {
17
       echo "0 results";
18
     $conn->close();
19
20
     ?>
```

#### Update Data In a MySQL Table Using MySQLi

- The UPDATE statement is used to update existing records in a table: UPDATE table\_name SET column1=value, column2=value2,...
  WHERE some\_column=some\_value
- ➤ The WHERE clause specifies which record or records that should be updated. If you omit the WHERE clause, all records will be updated!





#### Update Data In a MySQL Table Using MySQLi-ObjectOriented

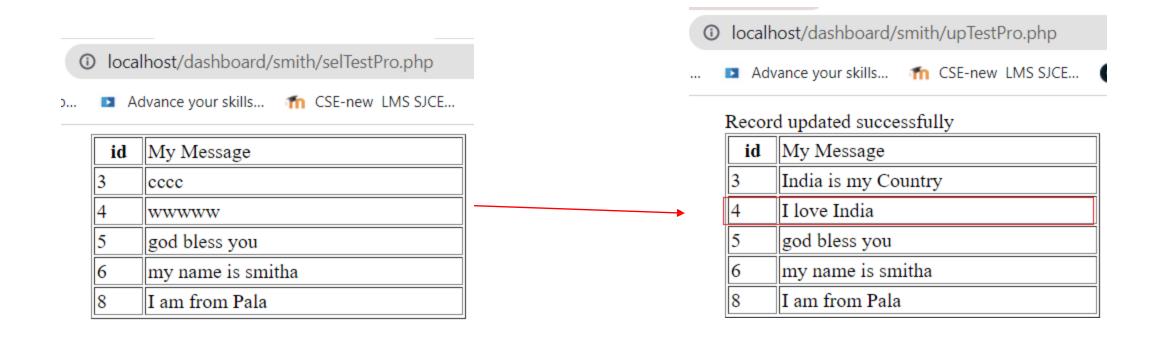
```
upTest.php
     <?php
     $conn = mysqli_connect("localhost", "root", "", "test");
 3
     // For checking if connection is successful or not
 4
     if ($conn->connect error) {
     die("Connection failed: ". $conn->connect_error);
 5
 6
    //echo "Connection to DB Establised successfully";
 8
     $sql = "UPDATE testTable SET testField='India is my Country' WHERE id=3";
     //update to db
 9
     if ($conn->query($sql) === TRUE) {
10
       echo "Record updated successfully";
11
12
     } else {
13
       echo "Error updating record: " . $conn->error;
14
```

## Update Data In a MySQL Table Using MySQLi

```
contd....
```

```
$sql = "SELECT * FROM testTable";
15
      $result = $conn->query($sq1);
16
17
18
      if ($result->num rows > 0) {
19
        // output data of each row
20
        echo "<br/>
'<br/>
'<br/>
'' ;
21
        while($row = $result->fetch assoc()) {
22
           echo "....".$row["id"]. ".....". $row["testField"]. "<br>";
23
24
      } else {
25
        echo "0 results";
                                                                   Record updated successfully
                                ....id....My Message.....
                                                                   ....id....My Message.....
26
                                ....3......cccc
                                                                   ....3......India is my Country
                                ....4.....wwwww
27
      $conn->close();
                                                                   ....4.....wwwww
                                ....5......god bless you
                                                                   ....5......god bless you
28
      32
                                ....6.....my name is smitha
                                                                   ....6.....my name is smitha
                                ....8......I am from Pala
                                                                   ....8......I am from Pala
```

# Update Data In a MySQL Table Using MySQLi-procedural contd....



#### Update Data In a MySQL Table Using MySQLi-Procedural

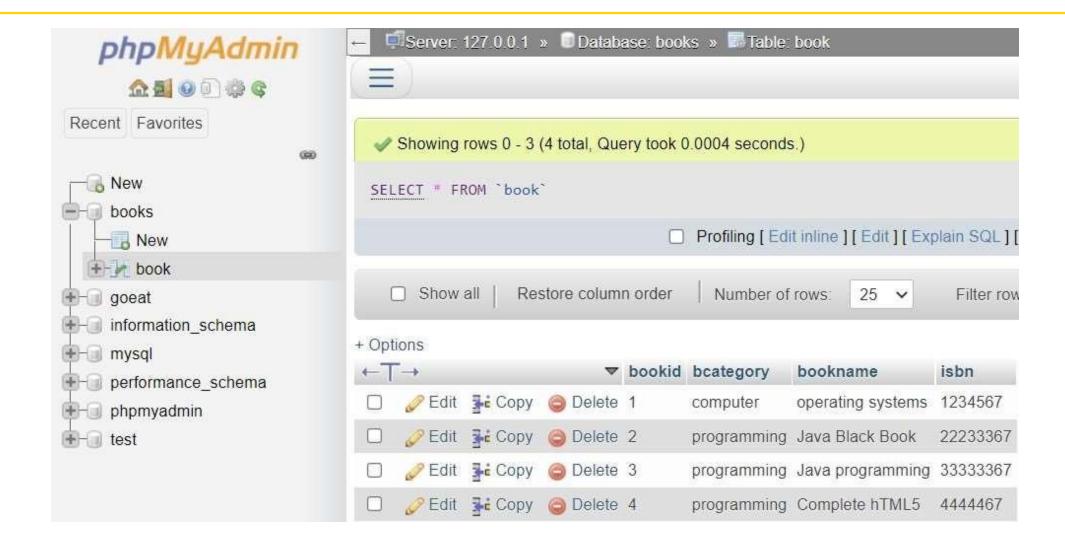
```
upTestPro.php
      <?php
      $conn = mysqli connect("localhost", "root", "", "test");
      // For checking if connection is successful or not
      if (!$conn) {
          die("Connection failed: " . mysqli_connect_error());
 6
        //update Db
        $sql = "UPDATE testTable SET testField='I love India' WHERE id=4";
 8
        if (mysqli query($conn, $sql)) {
 9
10
          echo "Record updated successfully";
11
        } else {
          echo "Error updating record: " . mysqli error($conn);
12
13
```

# Update Data In a MySQL Table Using MySQLi-procedural contd....

```
$sql = "SELECT * FROM testTable";
15
    $result = mysqli_query($conn, $sql);
    if (mysqli_num_rows($result) > 0) {
16
17
    // output data of each row
18
     echo "idMy Message" ;
19
     while($row = mysqli_fetch_assoc($result)) {
20
       echo "".$row["id"]. "".$row["testField"]. "";
21
22
     echo "";
23
     else {
     echo "0 results";
24
25
26
    $conn->close();
```

#### WARNING

- There is no more support for mysql\_\* functions, they are officially deprecated, no longer maintained and will be removed in the future.
- You should update your code with PDO or MySQLi to ensure the functionality of your project in the future



① localhost/dashboard/smith/selTestBook.php

Advance your skills... n CSE-new LMS SJCE... Log in | MongoDB Portfolio of Smitha...



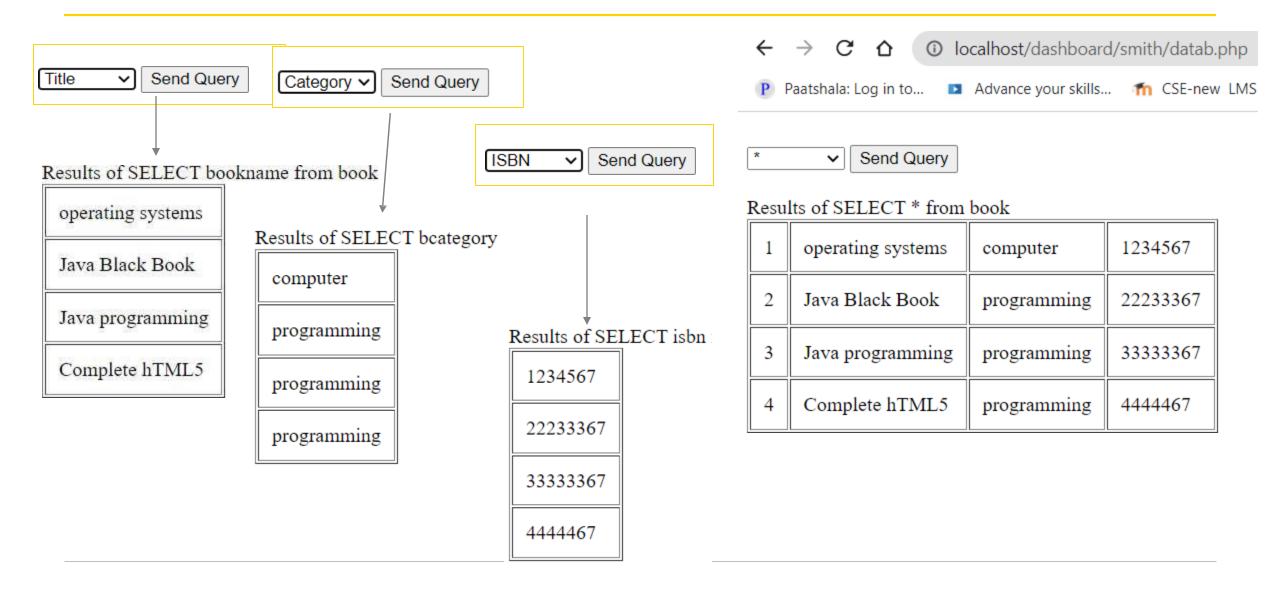
#### List of Books

Booid	Book Name	Book Category	ISBN
1	operating systems	computer	1234567
2	Java Black Book	programming	22233367
3	Java programming	programming	33333367
4	Complete hTML5	programming	4444467

```
selTestBook.php
    <?php
    $conn = mysqli connect("localhost", "root", "", "books");
    if (!$conn) {         die("Connection failed: " . mysqli_connect_error()); }
    $sql = "SELECT * FROM book";
    $result = mysqli query($conn, $sql);
    if (mysqli num rows($result) > 0) {
     // output data of each row
      echo "
 8
      <caption><b>List of Books </b></caption><br/>Booid</ri>
10
      Book Name Book Category
      ISBN";
11
12
     // while($row = mysql fetch row( $result )) --Deprecated use fetch assoc{
       while($row = mysqli fetch assoc($result)) {
13
14
       echo "".$row["bookid"]. "".$row["bookname"].
        "" . $row["bcategory"]. "" . $row["isbn"]."";
15
16
17
      echo "";
18
      else {
19
      echo "0 results";
20
    $conn->close();
21
22
    3>
```

## **Reading from Database Dynamically**

### Accessing Mysql Data-through dynamic Form data



#### Working with Mysql Data-through Form data

```
datab.php
      <!DOCTYPE html>
      <html lang="en">
    > <head> ···
      </head><body><br/>
  8
  9
          <form action="datab.php" method="post">
10
             <select name="select">
              <option selected>*</option>
11
12
              <option value="bookid">ID</option>
13
              <option value="bookname">Title</option>
14
              <option value="bcategory">Category</option>
15
              <option value="isbn">ISBN</option>
16
              </select>
17
              <input type = "submit" name="submit" value = "Send Query">
18
              <br/><br/>
19
           </form>
      </body></html>
20
```

#### Working with Mysql Data-through Form data

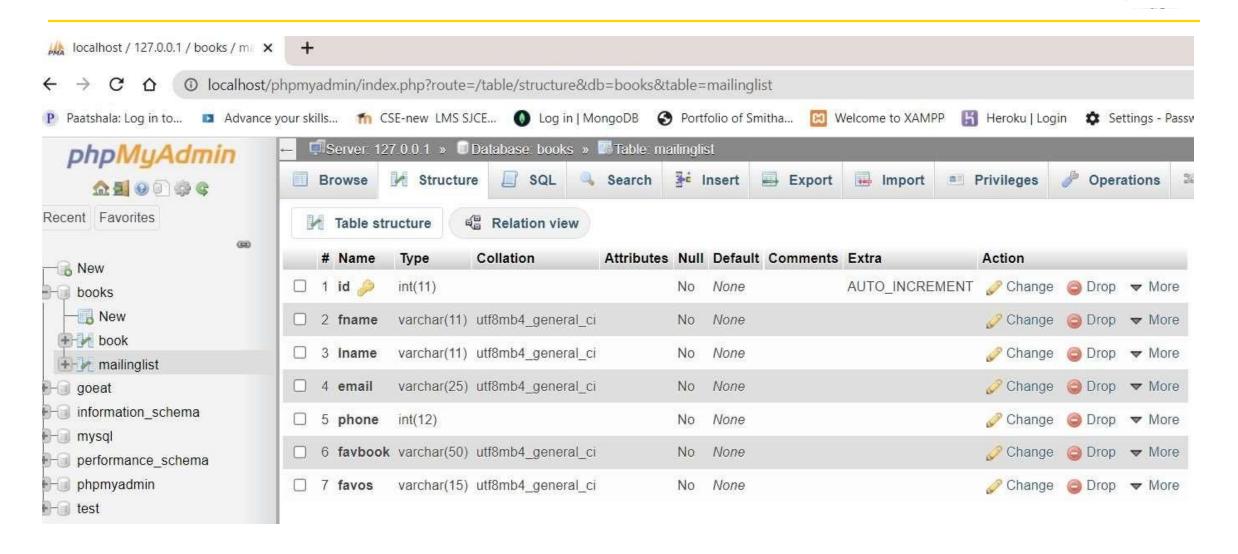
```
21
     <?php
    if(isset($ POST["submit"]))
22
23
    $conn = mysqli connect("localhost", "root", "", "books");
24
    if (!$conn) {      die("Connection failed: " . mysqli_connect error()); }
25
    $select = $ POST["select"];
26
    $sql = "SELECT ".$select. " FROM book";
27
    $result = mysqli query($conn, $sql);
28
    if (mysqli_num_rows($result) > 0) {
29
30
     // output data of each row
     echo "Results of SELECT ".$select ." from book";
31
32
     echo "";
33
       // while($row = mysql fetch row( $result )) --Deprecated use fetch assoc{
        while($row = mysqli fetch assoc($result))
34
35
            print "";
36
            foreach ( $row as $key => $value )
37
38
                 print( "$value" );
39
                 print( "" );
40
41
      echo "";
     } else { echo "0 results";}
42
43
     $conn->close();
44
45
     ?>
```

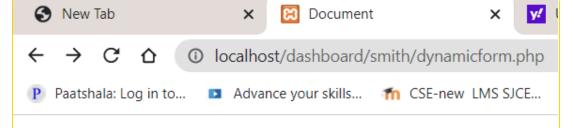
# **Dynamic Contents**

### **Dynamic Content**

- > PHP can dynamically change the HTML5 it outputs based on a user's input.
- ▶ We can combine the HTML5 form & PHP script into one dynamic document.
- ▶ The form is created using a series of loops, arrays and conditionals.
- ► We add error checking to each of the text input fields and inform the user of invalid entries on the form itself, rather than on an error page.
- ► If an error exists, the script maintains the previously submitted values in each form element.
- Finally, after the form has been successfully completed, we store the input from the user in a MySQL database.

### **Dynamic Content-Creation of mailinglist Table**





### **Sample Registration Form**

Please fill in all fields and click Register.

#### **User Information**

First Name:	saaa
Last Name:	qqq
Email:	xcx@bdsf.com
Phone:	2323323

#### **Publications**

Which book would you like information about?

Internet and WWW How to Program ✓

#### **Operating System**

Which operating system do you use?
○ Windows ○ Mac OS X ○ Linux ○ Other

Register

A record has been inserted.

Hi saaa. Thank you for completing the survey. You have been added to the Internet and WWW How to Program mailing list.

#### The following information has been saved in our database:

Name: saaa qqq

Email: xex@bdsf.com

Phone: 2323323

OS: Linux

Click here to view entire database.

This is only a sample form. You have not been added to a mailing list.

## **Mailing List Contacts**

Contacts stored in the database

ID	Last Name	First Name	E-mail Address	Phone Number	Book	Operating System
1	Smitha	Jacob	smitha.jacob@gmail.c	1239727287	Java BlackBook	Windows
2	qqq	saaa	xcx@bdsf.com	2323323	Internet and WWW How to Program	Linux

```
💏 dynamicForm.php
      k!DOCTYPE html>
      <html lang="en">
      <head>
 4
          <meta charset="UTF-8">
          <meta http-equiv="X-UA-Compatible" content="IE=edge">
          <meta name="viewport" content="width=device-width, initial-scale=1.0">
 6
          <title>Document</title>
 8
          <style type = "text/css">
 9
              p { margin: 0px; }
              .error { color: red }
10
              p.head { font-weight: bold; margin-top: 10px; }
11
              label { width: 5em; float: left; }
12
       </style>
13
14
      </head>
      <body>
15
16
      <?php
      // variables used in script
17
      $fname = isset($ POST[ "fname" ]) ? $ POST[ "fname" ] : "";
18
      $lname = isset($ POST[ "lname" ]) ? $ POST[ "lname" ] : "";
19
      $email = isset($ POST[ "email" ]) ? $ POST[ "email" ] : "";
20
      $phone = isset($_POST[ "phone" ]) ? $_POST[ "phone" ] : "";
21
      $book = isset($_POST[ "book" ]) ? $_POST[ "book" ] : "";
22
      $os = isset($_POST[ "os" ]) ? $_POST[ "os" ] : "";
23
```

- ► Lines 18–24 create variables that are used throughout the script to fill in form fields and check for errors.
- ► Line 25 creates an array for formerrors
- Lines 27,29,30 create three arrays, \$booklist, \$systemlist and \$inputlist, that are used to dynamically create the form's input fields.

```
$iserror = false;
24
      $formerrors = array( "fnameerror" => false, "lnameerror" => false,
25
26
      "emailerror" => false, "phoneerror" => false );
      $booklist = array( "Internet and WWW How to Program", "C++ How to Program",
27
      "Java How to Program", "Visual Basic How to Program");
28
     $systemlist = array( "Windows", "Mac OS X", "Linux", "Other" );
29
     $inputlist = array( "fname" => "First Name", "lname" => "Last Name",
30
      "email" => "Email", "phone" => "Phone" );
31
```

```
(isset( $ POST["submit"]))
   { if ( $fname == "" )
                                               55 {
34
        $formerrors[ "fnameerror" ] = true;
35
        $iserror = true;
36
                                               58
37
                                               59
        if ( $1name == "" )
38
39
        $formerrors[ "lnameerror" ] = true;
                                               61
40
        $iserror = true;
41
42
        if ( $email == "" )
43
44
                                               65
        $formerrors[ "emailerror" ] = true;
45
                                               66
        $iserror = true;
46
                                               67
47
        if ( $phone== "" )
48
                                               69
49
                                               70
        $formerrors[ "phoneerror" ] = true;
50
        $iserror = true;
                                               71
51
52
```

```
54 if (!$iserror)
   $sql = "INSERT INTO mailinglist " .
57 "(fname, lname, email, phone, favbook, favos ) " .
   "VALUES ( '$lname', '$fname', '$email', " .
    "" . $phone . ", '$book', '$os' )";
   $conn = mysqli_connect("localhost", "root", "", "books");
   if (!$conn)
    {die("Connection failed: " . mysqli connect error()); }
   $result = mysqli query($conn, $sql);
   if ($result === TRUE)
   echo "A record has been inserted.";
    else
    printf("Could not insert record: %s\n", mysqli error($conn));
   mysqli close($conn);
```

```
print( "Hi $fname. Thank you for completing the survey.
73
       You have been added to the $book mailing list.
74
75
       The following information has been
76
       saved in our database:
77
       Name: $fname $lname
       Email: $email
78
79
       Phone: $phone
80
       81
       <a href = 'formDatabase.php'>Click here to view
82
       entire database.</a>
83
       This is only a sample form.
       You have not been added to a mailing list.
84
                                                      A record has been inserted.
85
       </body></html>");
                                                      Hi saaa. Thank you for completing the survey. You have been added to the
86
       die(); // finish the page
                                                      Internet and WWW How to Program mailing list.
87 }
                                                      The following information has been saved in our database:
88
                                                      Name: saaa qqq
                                                      Email: xcx@bdsf.com
                                                      Phone: 2323323
                                                      OS: Linux
```

This is only a sample form. You have not been added to a mailing list.

Click here to view entire database.

- We specify that the form created in this document is self-submitting (i.e., it posts to itself) by setting the action to the script 'dynamicForm.php' in line 94.
- Lines 32-72 use the isset function to determine whether the \$\_POST array contains keys representing the various form fields.
- ► These keys exist only after the form is submitted.
- If function isset returns true, then the form has been submitted and we assign the value for each key to a variable. Otherwise, we assign the empty string to each variable.
- ► Line 53 determines whether any errors were detected, while Dynamically Creating the Form
- If \$iserror is false (i.e., there were no input errors), lines 54–88 display the page indicating that the form was submitted successfully

### **Dynamic Content- Dynamically Creating the Form**

- ► If \$iserror is true, lines 54–88 are skipped, and the code from lines 92-128 executes.
- These lines include a series of print statements and conditionals to output the form, as seen in Fig.

#### Sample Registration Form

Please fill in all fields and click Register.

#### **User Information**

First Name:	saaa	
Last Name:	qqq	
Email:	xcx@bdsf.com	
Phone:	2323323	

#### **Publications**

Which book would you like information about?

Internet and WWW How to Program ✓

#### **Operating System**

Which operating system do you use?
○ Windows ○ Mac OS X ● Linux ○ Other

Register

```
print( "<h1>Sample Registration Form</h1>Please fill in all fields and click Register." );
 89
      if ( $iserror )
 90
 91
       print( "Fields with * need to be filled in properly." );
 92
 93
 94
       print( "<!-- post form data to dynamicForm.php --><form method = 'post' action = 'dynamicForm.php'>
       <h2>User Information</h2> <!-- create four text boxes for user input -->" );
 95
 96
       foreach ( $inputlist as $inputname => $inputalt )
 97
       print("<div><label>$inputalt:</label><input type = 'text' name = '$inputname' value = '" . $$inputname. "'>" );
 98
       if ( $formerrors[ ( $inputname )."error" ] == true )
 99
       print( "<span class = 'error'>*</span>" );
100
       print( "</div>" );
101
102
103
      if ( $formerrors[ "phoneerror" ] )
104
       print( "Must be in the form (555)555-5555" );
105
       print( "<h2>Publications</h2>
106
       Which book would you like information about?
107
       <select name = 'book'>" );
       foreach ( $booklist as $currbook )
108
109
110
       print( "<option" . ($currbook == $book ? " selected>" : ">"). $currbook . "</option>" );
111
       // end foreach
                                                                                                    Don't Miss Out!
```

```
112
       print( "</select>
113
       <h2>Operating System</h2>
114
       Which operating system do you use?
115
       <!-- create five radio buttons -->" );
116
       $counter = 0;
117
       foreach ( $systemlist as $currsystem )
118
       print( "<input type = 'radio' name = 'os' value = '$currsystem' " );</pre>
119
      if ( ( !$os && $counter == 0 ) | ( $currsystem == $os ) )
120
       print( "checked" );
121
122
      print( ">$currsystem" );
123
      ++$counter;
124
       } // end foreach
125
126
      print( "<!-- create a submit button -->
127
      <input type = 'submit' name = 'submit'</pre>
      value = 'Register'></form></body></html>" );
128
129
      ?>
130
      </body>
131
      </html>
```

### **Dynamically Creating the Form**

- ► Lines 96–102 iterate through each element in the \$inputlist array.
- In line 98 the value of \$\$inputname is assigned to the text field's value attribute. If the form has not yet been submitted, this will be the empty string "".
- ► The notation \$\$variable specifies a variable 'variable', which allows the code to reference variables dynamically.
- ➤ You can use this expression to obtain the value of the variable whose name is equal to the value of \$variable.
- PHP first determines the value of \$variable, then appends this value to the leading \$ to form the identifier of the variable you wish to reference dynamically.

### **Dynamically Creating the Form**

- ▶ we use \$\$inputname to reference the value of each form-field variable.
- During the iteration of the loop, \$inputname contains the name of one of the text input elements, such as "email".
- > PHP replaces \$inputname in the expression \$\$inputname with the string representing that element's name forming the expression \${"email"}.
- ➤ The entire expression then evaluates to the value of the variable \$email. Thus, the variable \$email, which stores the value of the e-mail text field after the form has been submitted, is dynamically referenced.
- ► This dynamic variable reference is added to the string as the value of the input field (using the concatenation operator) to maintain data over multiple submissions of the form.

### **Dynamic Content- Dynamically Creating the Form**

- Lines 99-101 add a red asterisk next to the text input fields that were filled out incorrectly.
- Lines 103-104 display the phone number format instructions in red if the user entered an invalid phone number.
- Lines 105-112 and 113-125 generate options for the book drop-down list and operating-system radio buttons, respectively.
- Lines 120–123 select an operating system radio button under two conditions. If the form is begin displayed for the first time, the first radio button is selected. Otherwise, if the \$currsystem variable's value matches what's stored in the \$os variable, that specific radio button is selected

### **Dynamic Content-Inserting Data into the Database**

- If the form has been filled out correctly, lines 56-71 place the form information in the MySQL database MailingList using an INSERT statement.
- Lines 81 generate the web page indicating a successful form submission, which also provides a link to formDatabase.php (Fig.).

A record has been inserted.

Hi saaa. Thank you for completing the survey. You have been added to the Internet and WWW How to Program mailing list.

#### The following information has been saved in our database:

Name: saaa qqq

Email: xcx@bdsf.com

Phone: 2323323

OS: Linux

Click here to view entire database.

This is only a sample form. You have not been added to a mailing list.

### Sample Registration Form

Please fill in all fields and click Register. Fields with \* need to be filled in properly.

#### **User Information**

First Name:	*
Last Name:	*
Email:	*
Phone:	練
Must be in the form (555	5)555-5555

#### **Publications**

Which book would you like information about?

Internet and WWW How to Program ✓

#### **Operating System**

Which operating system do you use?

● Windows ○ Mac OS X ○ Linux ○ Other

Register

### Sample Registration Form

Please fill in all fields and click Register. Fields with \* need to be filled in properly.

#### **User Information**

First Name:	qqqq	10
Last Name:	qqq	28
Email:	nunu12345@test.com	16
Phone:	2323323	þ
	C (CCC) CCC CCCC	_

Must be in the form (555)555-5555

#### **Publications**

Which book would you like information about?

C++ How to Program 

✓

#### **Operating System**

Which operating system do you use?

○ Windows ○ Mac OS X ⑤ Linux ○ Other

Register

Hi qqqq. Thank you for completing the survey. You have been added to the C++ How to Program mailing list.

The following information has been saved in our database:

Name: qqqq qqq

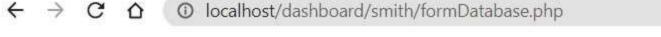
Email: nunu12345@test.com

Phone: 2323323

OS: Linux

Click here to view entire database.

This is only a sample form. You have not been added to a mailing list.



### **Mailing List Contacts**

Contacts stored in the database

ID	Last Name	First Name	E-mail Address	Phone Number	Book	Operating System
1	Smitha	Jacob	smitha.jacob@gmail.c	1239727287	Java BlackBook	Windows
2	qqq	saaa	xcx@bdsf.com	2323323	Internet and WWW How to Program	Linux
3	qqq	qqqq	nunu12345@test.com	2323323	C++ How to Program	Linux





# **Thank You**