Web Design

PHP Form + MySQL

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References: w3schools.com

PHP Form

- Form:
  - To process user input (textbox, combo box, radio, etc)
  - Examples: Login, Guest book, all other input methods in web programming
  - Contains:
    - Input fields (textbox, combo box, radio, textarea, etc)
    - Submit button
    - Reset button (optional)

PHP Form

- Form:
  - Need at least two php files:
    - PHP to load the form
    - PHP to process the form

Guest Book

Write Comment

Name:	
Email:	
Website:	
Comment:	
Write this text	Qe5d8
	Submit

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PHP to Load Form

- Form:
  - Format:
    <form name="form_name" method="POST" action="other_file.php">
    your input fields and submit button here
    </form>
  - Attribute:
    - Name: your form name.
    - Method: POST or GET. But in this case, you will use POST
    - Action: the file that will process your form

PHP To Load Form

- Input:
  - Textbox:
    <input type="text" name="textbox_name" value="">
  - Combo box:
    <select name="select_name">
    <option value="orange">Orange</option>
    <option value="melon">Melon</option>
    </select>
  - Submit Button:
    <input type="Submit" name="Submit" value="Submit">
  - Reset Button:
    <input type="Reset" name="Reset" value="Reset">

PHP To Process Form

- Simple: get Input, place it into variable:
  - Make sure you have the same name with the input fields

```php
<?php
    $kode_barang = $_POST['kode_barang'];
    $nama_barang = $_POST['nama_barang'];

    echo "$kode_barang - $nama_barang";
?>
```

- Save this code as form.php (at your htdocs folder)

```html
<html>
  <head><title>My first form</title></head>
  <body>
      <form name="myForm" action="show.php" method="post">
          <table>
              <tr>
                  <td>Nama:</td>
                  <td><input type="text" name="nama" value=""></td>
              </tr>
              <tr>
                  <td>komentar:</td>
                  <td><input type="text" name="komentar" value=""></td>
              </tr>
              <tr>
                  <td></td>
                  <td>
                      <input type="Submit" name="Submit" value="Submit">
                      <input type="Reset" name="reset" value="Reset">
                  </td>
              </tr>
          </table>
      </form>
  </body>
</html>
```

- Save this code as show.php (at your htdocs folder)

```php
<?php
  //get all input
  $nama=$_POST['nama'];
  $komentar=$_POST['komentar'];
?>

<html>
  <head><title>My first form</title></head>
  <body>
        <table>
            <tr><td>Nama:</td>
                <td><?php echo $nama;?></td>
              <td>Komentar:</td>
                <td><?php echo $komentar;?></td>
            </tr>
        </table>
  </body>
</html>
```

PHP Form

- Adjust them for your project!!!
- Add/remove the fields in the forms and processing file

MySQL

- Without database, we cannot save the inputs.
  - All will gone after you move from page
- With database, we can keep user input to be shown/process later
- MySQL:
  - Free
  - Most popular database in web based programming
  - Available on XAMPP

- First:
  - Design your data structure:
  - Table name: guest_book
  - Fields:
    - nama: varchar (200)
    - komentar: varchar (400)
- Second:
  - Open localhost/phpmyadmin
  - Create new database
  - Create table

MySQL

MySQL localhost

Create new database ⑦

`web_design_nim|` [Collation ▼] [Create]

MySQL connection collation: [utf8_general_ci ▼] ⑦

✔ Database web_design_nim has been created.

```
CREATE DATABASE `web_design_nim` ;
```

[Edit] [Create PHP Code]

No tables found in database.

Create new table on database web_design_nim

Name: `guest_book`   Number of fields: `2`

[Go]

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- Create your table and fields

PHP + MySQL

- To connect PHP and MySQL, you need a connection string. Place this in the top of your php page or include file

```php
<?php
// database connection config
$dbHost = 'localhost';   //host IP/domain, localhost if local
$dbUser = 'root';   //database username
$dbPass = '';     //database password
$dbName = 'guest_book';   //database name

//connecting to database
$dbConn = mysql_connect ($dbHost, $dbUser, $dbPass) or die
  ('MySQL connect failed. ' . mysql_error());
mysql_select_db($dbName) or die('Cannot select database. ' .
  mysql_error());
?>
```

PHP + MySQL

- To Process the input from PHP form:

```php
<?php
  //get all input
  $nama=$_POST['nama'];
  $komentar=$_POST['komentar'];

  If ($_POST['Submit']!="") {
      $sql = "insert into guest_book (nama, komentar) values
  ('$nama','$komentar')";
      $result = mysql_query($sql);
  }
?>
```

- To Show the database content:

```php
<?php

    $sql = "select nama, komentar from guest_book";
    $result = mysql_query($sql);
    if ($result) {
        echo "<table>";
        echo "<tr><td>Nama</td><td>Komentar</td></tr>";
        while ($row = mysql_fetch_array($result)) {
                echo "<tr>";
                echo "<td>".$row['nama']."</td><td>".
$row['komentar']."</td>";
                echo "</tr>";
        }
        echo "</table>";
    }
?>
```

```
<html>
<head><title>My show page</title></head>
<body>
<?php
// database connection config
$dbHost = 'localhost';   //host IP/domain, localhost if local
$dbUser = 'root';   //database username
$dbPass = '';        //database password
$dbName = 'web_design_xxx';   //database name

//connecting to database
$dbConn = mysql_connect ($dbHost, $dbUser, $dbPass) or die ('MySQL connect failed. ' . mysql_error());
mysql_select_db($dbName) or die('Cannot select database. ' . mysql_error());

    //get all input
    $nama=$_POST['nama'];
    $komentar=$_POST['komentar'];

    If ($_POST['Submit']!="") {
        $sql = "insert into guest_book (nama, komentar) values ('$nama','$komentar')";
        $result = mysql_query($sql);
    }

    //show database content
    $sql = "select nama, komentar from guest_book";
    $result = mysql_query($sql);
    if ($result) {
        echo "<table>";
        echo "<tr><td>Nama</td><td>Komentar</td></tr>";
        while ($row = mysql_fetch_array($result)) {
                echo "<tr>";
                echo "<td>".$row['nama']."</td><td>".$row['komentar']."</td>";
                echo "</tr>";
        }
        echo "</table>";
    }
?>
</body>
</html>
```

show.php