FORM HANDLING

Pizza Shop 2.0	
Name	
Pizza Topping	Supreme Vegetarian Hawaiian
Pizza Sauce	Tomato ▼
Optional Extras	Extra Cheese Gluten Free Base
Delivery Instructions:	
Send my Order	

Department of ICT Faculty of Technology

Objectives

- After the successful completion of this lecture, students should be able to,
 - Manage form data using php



HTML Forms

HTML Forms – Method Attribute

- Used to tell the browser how the form information should be sent
- The two most popular methods
 - GET
 - POST

Ex:-

- <FORM NAME ="form1" METHOD ="GET" ACTION = "">
- <FORM NAME ="form1" METHOD ="POST" ACTION = "">

GET Method

- Information sent from a form with the GET method is visible to everyone
- Use the GET method when the data you want to send is not crucial information that needs protection
- Has limits on the amount of information to send through GET method
- The predefined \$_GET variable is used to collect values from a form with the method "get"



POST Method

- When Information sent from a form with the POST method,
 - The information is invisible to others
 - No limits on the amount of information being sent

 The predefined \$_POST variable is used to collect values from a form sent with the method "post"



GET vs. POST

- Both GET and POST create an array (e.g. array(key => value, key2 => value2, key3 => value3, ...))
- This array holds key/value pairs, where keys are the names of the form controls and values are the input data from theuser
- \$_GET and \$_POST are super globals, which means that they are always accessible, regardless of scope
- \$_GET is an array of variables passed to the current script via the URL parameters
- \$_POST is an array of variables passed to the current script via the
 HTTP POST method

Processing Form Data

- How does a PHP script get information from a client?
- How does a PHP script get information from the server when it is running on?
- How does PHP save information from a session with a client?

Answer: Using PHP superglobal arrays

Superglobal Arrays

- Superglobals are built-in variables that are always available in all scopes
- There is no need to use "global \$variable"; to access them within functions
 - \$_SERVER- stores data about the currently running server
 - \$_ENV- stores data about the current client's environment
 - \$_GET- stores data sent to the server using HTTP method GET
 - \$_POST- stores data sent to the server using HTTP method
 POST

\$_REQUEST

- \$_REQUEST is a super global variable which is widely used to collect data after submitting html forms
- Instead of using GET and POST arrays, you can also use the \$_REQUEST array

```
<?php
    $name=$_REQUEST['name'];
    echo $name;
?>
```

\$_SERVER

Holds information about headers, paths, and script locations

Action Property of Forms

- Action property indicates
 - Where to send the form data

EX:-

- <form method = "post" action = "form.php">
- The action attribute of the form element indicates that when the user clicks submit button, the form data will be posted to form.php

Using PHP_SELF in the Action Field of a Form

- PHP_SELF is a variable that returns the current script being executed
- Returns the name and the path of the current file (from the root folder)
 - echo \$_SERVER['PHP_SELF'];
- Using PHP_SELF variable you can write more generic code which can be used on any page

```
<form name="form1" method="post" action="<?php echo
$_SERVER['PHP_SELF']; ?>" >
```

HANDLING FORM CONTROLS

Getting Values From a Text Box

 To get the text that a user entered into a text box, the text box needs the NAME attribute

Ex:-

- <INPUT TYPE = "Text" VALUE = "username" NAME = "uname">
- To return data from an HTML form element, you can use the following syntax:

```
$username = $_POST['uname']; or
$username = $_GET['uname''];
```

PHP and Radio Buttons

```
<FORM name ="form1" method ="post" action ="radioButton.php">

<Input type = 'Radio' Name ='gender' value= 'male'>Male

<Input type = 'Radio' Name ='gender' value= 'female'>Female

<Input type = "Submit" Name = "Submit1" VALUE = "Select a Radio Button">

</FORM>
```

Male Female Select a Radio Button

PHP and Radio Buttons

```
<?PHP
     $male_status = 'unchecked';
     $female_status = 'unchecked';
     if (isset($_POST['Submit1'])) {
          $selected_radio = $_POST['gender'];
          if ($selected_radio == 'male') {
               $male_status = 'checked';
               echo "Male Selected";
          else if ($selected_radio == 'female'){
               $female_status = 'checked';
               echo "Female Selected";
```

Exercise

- Write down the php code to display the following output and get the selected value from the radio buttons.
- When the user selects a radio button and press the button, the page should display "You have selected *Radio x*" (X is th number of the button.

Radio 1 Radio 2 Radio 3

Get Selected Values

Answer

```
<html>
    <body>
         <form action="" method="post">
              <input type="radio" name="radio" value="Radio 1">Radio 1
              <input type="radio" name="radio" value="Radio 2">Radio 2
              <input type="radio" name="radio" value="Radio 3">Radio 3 <br><br></ri>
              <input type="submit" name="submit" value="Get Selected Values" />
         </form>
    </body>
</html>
<?php
    if (isset($_POST['submit'])) {
         if(isset($_POST['radio'])){
              echo "You have selected :".$_POST['radio'];
```

PHP and Dropdown List

```
<html>
    <body>
         <form action="" method="post">
             <select name="clr">
                  <option value="Red">Red</option>
                  <option value="Green">Green</option>
             </select>
             <input type="submit" name="btnsubmit"/>
         </form>
    </body>
</html>
<?php
    if(isset($_POST['btnsubmit']))
    echo "Selected color is: ".$_POST['clr'];
?>
```

FORM VALIDATION

Validating the Input

- User input should be validated on the browser by client scripts
 - JavaScript
- Server validation is used if the user input will be inserted into a database
- empty()
 - Determine whether a variable is empty if(empty(\$_POST["name"]))

- Isset()
 - Determine if a variable is set and is not
 NULL if(isset(\$_POST['submit']))

Form Processing

- Confirm that valid information was entered
- extract() function
 - Creates variables corresponding to each key-value pair in an array
 - Easily retrieve all values sent to the PHP page
 - Note: Do not use extract() on untrusted data, like user input with
 \$_GET
- Regular expressions are very helpful
- Ending a script
 - die() function : Terminates script execution
 - Remember to close all HTML tags

```
<?php
    extract( $_POST );
    if( isset($_POST['submit']) ) {
    // determine whether phone number is valid and print an error message if not
    if(!preg_match( "/^(\(\+[0-9]{2}\)[0-9]{9})$/","412278456") ){
    // Perform a regular expression match
    print( "<span style = \"color: red; font-size: 2em\">
    INVALID PHONE NUMBER</span><br/>
    Avalid phone number must be in the form
    <strong>(+94)412278456<br/>>
    </span></body></html>");
    die(); // terminate script execution
    else{ echo "Valid phone no"; }
```

Validating the input - Text

- Check if the name field only contains letters and whitespace
- If the value of the name field is not valid, then store an error message:

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

 The preg_match() function searches a string for pattern, return true if the pattern exists, and false otherwise

Validating the Input - Email

- Validate email format
- Use PHP's filter_var() function to check whether an email address is well-formed
- filter_var Filters a variable with a specified filter
- FILTER_VALIDATE_EMAIL filter validates an e-mail address

```
$email = $_POST["email"];
if (!filter_var($email, FILTER_VALIDATE_EMAIL)) {
    $emailErr = "Invalid email format";
}
```

Var_dump()

- Display structured information (type and value) about one or more variables
- Arrays and objects are explored recursively with values indented to show structure
- All public, private and protected properties of objects will be returned in the output
- Syntax

var_dump(variable 1, variable 2,variable n)

Example - var_dump()

```
<?php
$a = array(1, 2, array("a", "b", "c"));
var_dump($a);
?>
```



```
array(3) {
  [0]=>
  int(1)
  [1]=>
  int(2)
  [2]=>
  array(3) {
    [0]=>
    string(1) "a"
    [1]=>
    string(1) "b"
    [2]=>
    string(1) "c"
```

Summary

- HTML Forms
 - METHOD
 - ACTION
 - SUBMIT
- Superglobal arrays
- Capture user input
- Form validation using php

Questions.....

