Chapter 7 How to work with form data

Objectives

Applied

- 1. Use text boxes, password boxes, radio buttons, check boxes, drop-down lists, list boxes, and text areas to get input from the user.
- 2. Use hidden fields to pass data to the web application when a form is submitted.
- 3. Use the htmlspecialchars and nl2br functions to display user entries the way you want them displayed.
- 4. Use echo statements to display data in a web page.

Objectives (continued)

Knowledge

- 1. Describe the way a PHP application gets data from text boxes, password boxes, hidden fields, radio buttons, check boxes, dropdown lists, list boxes, and text areas.
- 2. Describe the use of the htmlspecialchars and nl2br functions.
- 3. Describe the use of the echo and print statements.

Text input: The HTML for three types of fields

```
<input type="text" name="user_name" value="rharris"/>
<input type="password" name="password"/>
<input type="hidden" name="action" value="login"/>
```

The text and password fields in the browser

User Name	: rharris	
Password:	••••••	

Hidden fields:

- not displayed on the web page
- value attribute must be set
- not secure since the value can be viewed in the html source code

The URL when using the GET method

process_data.php?user_name=rharris&password=s3cr3t72&action=login

The PHP for the GET method

```
<?php
    $user_name = $_GET['user_name'];
    $password = $_GET['password'];
    $action = $_GET['action'];
?>
```

The URL when using the POST method

```
process data.php
```

The PHP for the POST method

```
<?php
    $user_name = $_POST['user_name'];
    $password = $_POST['password'];
    $action = $_POST['action'];
?>
```

The HTML for three radio buttons in a group

The radio buttons in the browser

- Visa
- MasterCard
- Discover

Note:

- the name attribute for each radio button must be the same
- the value attribute for each radio button must be different
- the checked attribute sets the default so should only be used on one of the options

PHP to access a radio button group with a default button

```
<?php
$card_type = $_POST['card_type'];
?>
```

PHP to access a radio button group that doesn't have a default button

```
<?php
    if (isset($_POST['card_type'])) {
        $card_type = $_POST['card_type'];
    } else {
        $card_type = "unknown";
    }
}</pre>
```

The HTML for three check boxes

The check boxes in the browser

```
✓ Pepperoni✓ Mushrooms✓ Olives
```

The PHP to access the check box data

```
<?php
    $pepperoni = isset($_POST['pep']);
    $mushrooms = isset($_POST['msh']);
    $olives = isset($_POST['olv']);
?>
```

Using an array of check boxes

• If the items in a checkbox list are related, use an array to simplify the processing rather than creating separate identifiers for each one.

Three related check boxes in an array

The check boxes in the browser

✓ Pepperoni	
Mushrooms	
☑ Olives	

PHP that accesses the array and its values

PHP that uses a loop to process the array

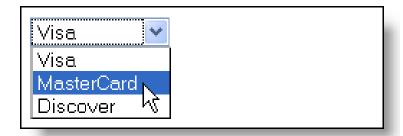
```
<!php
    if (isset($_POST['top'])) {
        $toppings = $_POST['top'];
        foreach($toppings as $key => $value) {
            echo $key. ' = ' . $value . '<br />';
        }
    } else {
        echo 'No toppings selected.';
    }
?>
```

The message displayed by the browser

```
0 = pep
1 = olv
```

The HTML for a drop-down list

The drop-down list in a browser



The PHP to access the drop-down list data

```
<?php
     $card_type = $_POST['card_type'];
?>
```

A list box that doesn't allow multiple options

A list box that doesn't allow multiple options



A list box that allows multiple options

A list box that allows multiple options



PHP for a list box that allows multiple options

```
<?php
  if (isset($_POST['top']) {
     $toppings = $_POST['top'];
     foreach ($toppings as $key => $value) {
        echo $key. ' = ' . $value . '<br />';
     }
} else {
     echo 'No toppings selected.';
}
?>
```

The HTML for a text area

<textarea name="comment" rows="4" cols="50">
Welcome to PHP and MySQL!</textarea>

A text area in the browser



If the user types past the end of the text area, a *soft return* is created

If the user presses Enter or Return, a hard return is created.

The URL when using the GET method

When the user includes spaces in the text area

```
process data.php?comment=Welcome+to+PHP+and+MySQL!
```

When the user presses the Enter or Return key to start a new line

```
process_data.php?comment=Welcome+to%0D%0APHP+and+MySQL!
```

When the user doesn't enter any text

```
process data.php?comment=
```

The PHP to get the data from the text area

```
<?php
$comment = $_POST['comment'];
?>
```

htmlspecialchars() converts certain characters into their character entity so that they will show in the browser and not be interpreted.

Common HTML character entities

Character	Character entity
&	&
<	<
>	>
"	"
•	'
Non-breaking space	

Syntax of the htmlspecialchars function

The available quote styles are:

- ENT_COMPAT Default. Encodes only double quotes
- ENT_QUOTES Encodes double and single quotes
- ENT NOQUOTES Does not encode any quotes

A double-encoded less-than entity

<

The text entered by the user

```
Welcome to <i>PHP</i> and MySQL!
```

Converting special characters to entities

The data displayed in the browser

```
Welcome to <i>PHP</i> and MySQL!
```

Syntax of the nl2br function

nl2br(\$string[, \$is_xhtml])

The text entered into the text area

```
Welcome to
PHP and MySQL!
```

Converting line break characters to line break tags

```
<?php
    $comment = $_POST['comment'];
    $comment = nl2br($comment, false);
?>
<?php echo $comment; ?>
```

The data displayed in the browser

```
Welcome to
PHP and MySQL!
```

The echo statement

Syntax

```
echo $var1
echo($var1)
echo $var1 [, $var2 ...]

Examples
```

echo 'Welcome to PHP and MySQL!';

```
echo 'Name: ' . $name;
echo('Name: ' . $name);
echo 'Cost: $', $cost;
```

The print statement

Syntax

```
print $var1
print($var1)
```

Examples

```
print 'Welcome to PHP and MySQL!';
print 'Name: ' . $name;
print('Name: ' . $name);
```

Using print in an expression