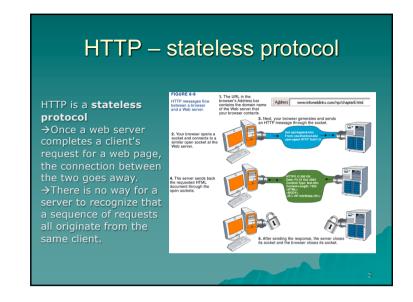
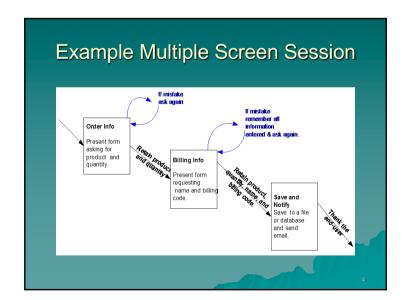
ICT 5 Web Development
Chapter 10. Maintaining state
through multiple forms



What Are Multiple-Form Web Sessions?

- A multiple-form Web session leads the user through a series of HTML forms that work together and pass data from form to form.
- ◆ E.g.
 - To build a shopping cart or on-line survey.
 - To save user authentication information from page to page
 - To store persistent user preferences on a site



How to maintain the state through multiform?

- Use tricks to keep track of state information between requests (session tracking)
 - Using hidden form fields
 - URL rewriting: every local URL on which the user might click is dynamically modified to include extra information
 - http://www.example.com/catalog.php?userid=123
 - Using cookies: a bit of information that the server give to a client → depends on the client
 - Using session

1. Hidden fields

- → Hidden fields are part of HTML forms
 - Not displayed but value can be accessed in receiving script like any other variable.

 Can still be viewed by user's who view source.

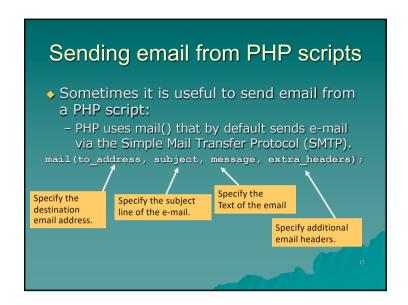
A Full Script Example

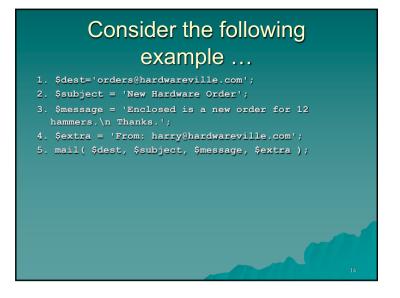
- Consider an example script sets a hidden field
 - Implements the Order Info form
 - on submit sends data to order2.php







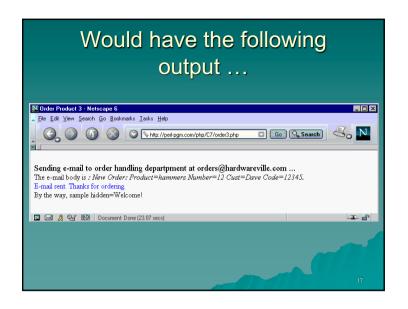


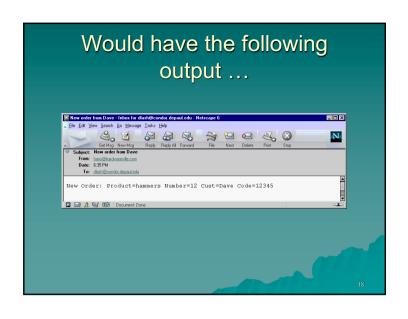


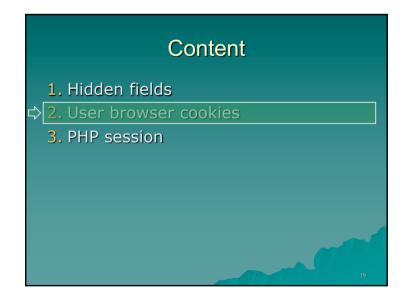
Consider the following full example ...

- ◆Implements save and notify
- Called from order2.php and saved at order3.php
- Can access variables \$product, \$quantity, and \$sample_hidden sent as hidden fields from the Billing Info form.

The following PHP Script ...







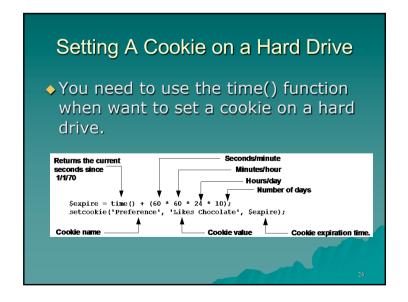


Understanding Cookie Limitations

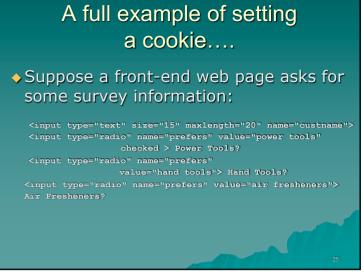
- Users can easily disable the cookies feature.
- ◆ People move around.
- Users may delete cookies.
- ◆ PHP sets limit on cookies

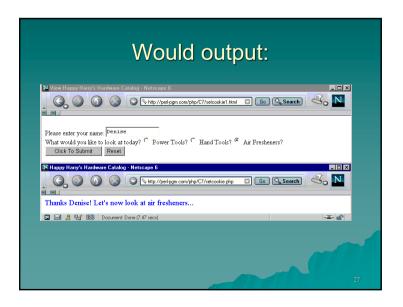


Setting and Reading Cookies Cookies can be set in memory or on hard disk Set on hard disk are deleted when browser closes Can use the setcookie() script Directs browser to create a cookie Specify the cookie's name Specify the cookie's value



A full example of setting a cookie.... ◆ Suppose a front-end web page asks for some survey information: <input type="text" size="15" maxlength="20" name="custname"> <input type="radio" name="prefers"</pre>





The following script runs when submitted – setcookie.php 1.<?php \$prefers = \$ POST["prefers"];</pre> \$expire=\$ POST["expire"]; \$custname=\$ POST["custname"]; 2. \Rightarrow expire = time() + (60 * 60 * 24 * 30); setcookie("name", \$custname, \$expire); setcookie("preference", \$prefers, \$expire); 6.<html> 7. <head><title>Happy Harry's Hardware Catalog </title></head> 8.<body> 9.<?php 10. print "Thanks \$custname! "; 11. print "Let's now look at \$prefers..."; 12.?> </body></html>

Reading Cookies

- ◆ You can read a cookie by using a variable name with the same name as a cookie:
 - print "\$cust_name";

Reading Cookies with REGISTER_GLOBALS Off

- To read a cookie value use the \$_COOKIE[] associative array to get the cookie function
- \$cust_name=
 \$_COOKIE["cust_name"];

```
Example Script that read a cookie —

readcookie.php

1. <a href="https://doi.org/10.1001/jttps:2.cookie.php">https://doi.org/10.cookie.php</a>

1. <a href="https://doi.org/10.1001/jttps:2.cookie.php">https://doi.org/10.cookie.php</a>

2. <a href="https://doi.org/10.1001/jttps:2.cookie.php">https://doi.org/10.cookie.php</a>

5. print '<a href="https://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.1001/jttps://doi.org/10.10
```

```
Example Script that read a cookie

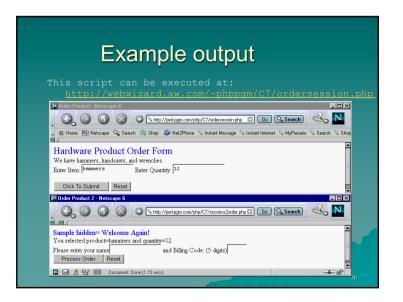
1.<html>
2. \nead><title>Happy Harry's Hardware Catalog</title>
3. </head><body>
4. <?php $name = $_COOKIE["name"]; $preference = $_COOKIE["preference"];
5. print '<font color="blue" size=4>';
6. if (isset($name)){
7. print "Welcome back to our humble hardware site, $name.";
8. } else {
9. print '<font color="red">';
10. print 'Welcome to our humble hardware site.</font>';
11. }
12. if ($preference == 'hand tools'){
13. print 'dbr> We have hammers on sale for 5 dollars!';
14. } elseif ($preference == 'power tools'){
15. print 'dbr> We have power drills on sale for 25 dollars!';
16. } elseif ($preference == 'air fresheners'){
17. print 'dbr> We now carry extra-strength air fresheners!';
18. } else {
19. print 'dbr> <font color="red">';
20. print 'We have drills and hammers on special today!';
21.}
22. ?></font></html>
```


PHP Supports two functions that enable you to retain data between forms - session_start() - either starts a new session or resumes one if a session exists - Run at the start of every script - By default creates a unique session ID stored as a cookie - session_register() - registers one or more variables as session variables \$name = 'Matthew'; \$preference = 'Soccer Equipment'; session_register('name', 'preference');

```
Use the following script to
read the session data - sessions2order.php
1.<?php session start() ?>
2.<html><head><title> Order Product 2 </title> </head>
4.<form action="sessions3order.php" method="post">
5.<?php $sample hidden = $ SESSION['sample hidden'];</pre>
6. print "<h1> Sample hidden= $sample hidden</h1>";
7. print "<br>You selected product=$product and
                            quantity=$quantity";
9. print '<br>Please enter your name';
10. print '<input text type="text" size="15" maxlength="20"
                            name="name">';
11. print ' and Billing Code: (5 digits)';
                             name="code">";
13. print '<br/>
'input type=submit value="Process Order">';
14. print '<input type=reset>';
15. print '</form></body></html>';
```

```
1. <?php session_start(); ?>
2. <html><head><title>Order Product</title>
3. </head><toody>
4. <form action="sessions2order.php" method="post">
5. <font color=blue size=5> Hardware Product Order Form </font>
6. <br/>
6. <br/>
6. <br/>
6. <br/>
6. <br/>
8. Enter Quantity: <input text type="text" size="15" maxlength="20" name="product">
8. Enter Quantity: <input text type="text" size="15" maxlength="20" name="quantity"><br/>
9. <?php
10. $sample hidden='Welcome Again!';
11. session_register('sample_hidden');
12. ?>
13. <br/>
14. <input type="submit" value="Glick To Submit">
14. <input type="reset" value = "Reset" >
15. </body>

Since PHP 5.4
SESSION|'sample_hidden'|=$ 'sample_hidden;
14
```



Some session extras

 session_is_registered() - can be used to determine if a variable comes from a session:

```
if (session_is_registered('name')){
   print "got name=$name from session";
} else {
   print "name=$name not set from session";
}
```

PHP 5.4
if(isset(\$ SESSION(\$myusername))

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Session Extras - \$_SESSION

- ◆Use \$_SESSION Associative array when REGISTER_GLOBALS are off in php.ini
 - Do not need to use session_register()
 session_start();
 - \$_SESSION['sample_hidden'] = 'Welcome!';

Summary

- Hidden fields are HTML form fields you can use to set a variable name and variable value without displaying them on a form.
- Cookies provide a way for Web server applications to store small pieces of data on the user's hard disk.
- PHP session functions provide a convenient way to retain data between PHP scripts.
 - Use session_start() and session_register() functions to start sessions and define session variables, respectively

