COP 4610L: Applications in the Enterprise Fall 2006

Introduction to PHP – Part 2

Instructor :

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Checking Your PHP Set-up

- Once you get your web server (Apache) and PHP installed, the simplest way to test your installation is to create a PHP file and execute it.
- Create a PHP file containing the following single line:

<?php phpinfo() ?>

- Save this file in the htdocs folder in Apache (there will already be some files in this folder).
- Start the Apache server running and then access the PHP file through the browser with the following url:

http://localhost:8081/info.php

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	Registered Stream Socket Transports	top, udp	
	Registered Stream Filters	convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, zlib.*	
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Verifying a Username and Password Using PHP

- It is often the case that a private website is created which is accessible only to certain individuals.
- Implementing privacy generally involves username and password verification.
- In the next example, we'll see an XHTML form that queries a user for a username and password. The fields USERNAME and PASSWORD are posted to the PHP script verify.php for verification.
 - For simplicity, data is not encrypted before sending it to the server.
 - For more information on PHP encryption functions visit: <u>http://www.php.net/manual/en/ref.mcrypt.php</u>.



```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
```

```
<!-- password.html --> <!-- XHTML form sent to password.php for verification -->
```

```
<html xmlns = "http://www.w3.org/1999/xhtml">
 <head>
   <title>Verifying a username and a password.</title>
   <style type = "text/css">
    td { background-color: #DDDDDD }
   </style>
 </head>
 <body style = "font-family: arial">
   <font color=red><B> Welcome to the COP 4610 High Security WebPage </B></font><HR>
   Type in your username and password below.
     <br />
     <span style = "color: #0000FF; font-size: 10pt;
      font-weight: bold">
      Note that password will be sent as plain text - encryption not used in this application
     </span>
```



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```
<!-- post form data to password.php -->
                                                       password.html – page 2
<form action = "password.php" method = "post">
 <br />
  <table border = "3" cellspacing = "3" style = "height: 90px; width: 150px;
  font-size: 10pt" cellpadding = "1">
   <strong>Username:</strong> 
   <input size = "40" name = "USERNAME"
       style = "height: 22px; width: 115px" />
                                          <strong>Password:</strong> 
   <input size = "40" name = "PASSWORD"
       style = "height: 22px; width: 115px" type = "password" /> <br/>
  <input type = "submit" name = "Enter" value = "Enter" style = "height: 23px;
      width: 47px" />
                      <input type = "submit" name = "NewUser" value = "New User"
      style = "height: 23px" />
    </form> <HR> </body> </html>
```

```
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```

```
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!-- password.php
                     -->
<!-- Searching a database for usernames and passwords. -->
<html xmlns = "http://www.w3.org/1999/xhtml">
 <head>
   <?php
     extract( $_POST );
     // check if user has left USERNAME or PASSWORD field blank
     if ( !$USERNAME || !$PASSWORD ) {
       fieldsBlank();
       die();
     // check if the New User button was clicked
     if ( isset( $NewUser ) ) {
       // open password.txt for writing using append mode
       if (!( $file = fopen( "password.txt", "a" ) ) ) {
         // print error message and terminate script
         // execution if file cannot be opened
         print( "<title>Error</title></head><body>
          Could not open password file
          </body></html>");
         die();
```

<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"



```
password.php – page 2
 // write username and password to file and call function userAdded
  fputs( $file, "$USERNAME,$PASSWORD\n" );
  userAdded( $USERNAME );
else {
 // if a new user is not being added, open file
 // for reading
  if ( !( $file = fopen( "password.txt", "r" ) ) ) {
   print( "<title>Error</title></head>
      <body>Could not open password file
     </body></html>");
   die();
  suserVerified = 0:
 // read each line in file and check username and password
  while (!feof( $file ) && !$userVerified ) {
   // read line from file
   line = fgets( file, 255 );
   // remove newline character from end of line
   line = chop(line);
   // split username and password using comma delimited string
   $field = split( ",", $line, 2 );
```

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```
password.php - page 3
   // verify username
   if (\$USERNAME == \$field[0]) {
     $userVerified = 1;
     // call function checkPassword to verify user's password
     if ( checkPassword( $PASSWORD, $field ) == true )
       accessGranted( $USERNAME );
     else
       wrongPassword();
    }
 // close text file
 fclose( $file );
 // call function accessDenied if username has not been verified
  if (!$userVerified)
   accessDenied();
}
// verify user password and return a boolean
function checkPassword( $userpassword, $filedata )
  if ( $userpassword == $filedata[ 1 ] )
   return true;
  else
   return false;
```



```
// print a message indicating the user has been added
function userAdded( $name ) {
  print( "<title>Thank You</title></head>
    <body style = \font-family: arial;
    font-size: 1em; color: blue\">
    <strong>You have been added
    to the user list, $name. Please remember your password.
    <br />Enjoy the site.</strong>");
// print a message indicating permission has been granted
function accessGranted( $name ) {
  print( "<title>Thank You</title></head>
    <body style = \font-family: arial;
    font-size: 1em; color: blue\">
    <strong>Permission has been
    granted, $name. <br />
    Enjoy the site.</strong>");
// print a message indicating password is invalid
function wrongPassword() {
  print( "<title>Access Denied</title></head>
    <body style = \font-family: arial;
    font-size: 1em; color: red\">
    <strong>You entered an invalid
    password.<br />Access has
    been denied.</strong>" );
}
```

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password.php – page 4



password.php – page 5

```
// print a message indicating access has been denied
     function accessDenied() {
       print( "<title>Access Denied</title></head>
          <body style = \"font-family: arial;
         font-size: 1em; color: red\">
          <strong>
         You were denied access to this server.
          <br /></strong>" );
      }
      // print a message indicating that fields
      // have been left blank
     function fieldsBlank() {
       print( "<title>Access Denied</title></head>
          <body style = \font-family: arial;
         font-size: 1em; color: red\">
          <strong>
         Please fill in all form fields.
          <br /></strong>" );
    ?>
  </body>
</html>
```







How password.php Works

- The PHP script password.php verifies the client's username and password by querying a database. For this example, the "database" of usernames and passwords is just a text file (for simplicity). Existing users are validated against this file, and new users are appended to it.
- Whether we are dealing with a new user is determined by calling function isset to test if variable \$NewUser has been set.



• When the user submits the password.html form to the server, they click either Enter or New User button. After calling function extract, either variable \$NewUser or \$Enter is created depending on which button was selected. If \$NewUser has not been set, we assume the user clicked Enter.



PHP and Database Connectivity

- PHP offers built-in support for a wide variety of database systems from Unix DBM through relational systems such as MySQL to full size commercial systems like Oracle.
- We'll continue to use MySQL as the underlying database system so that you can easily compare the work we've done with MySQL using Java servlets and JSPs.
- Before you go any further in these notes you must configure PHP to access MySQL databases. Beginning with PHP 5, MySQL is not enabled by default in PHP, nor is the MySQL library bundled with PHP.
 - Versions of MySQL greater than 4.1.0 use MySQLi extensions.
 - Versions of MySQL less than 4.1.0 use MySQL extensions.

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- You need to do two things to get PHP to recognize MySQL:
- 1. Set the Path statement to include C:/php (you should have already done this!) This enables the runtime environment to access the libmysql.dll and/or libmysqli.dll files in the PHP directory.
- 2. Edit the php.ini file to enable the extension php_mysql.dll (and/or extension php_mysqli.dll). To accomplish this search down through this file until you find the extensions (probably about ½ of the way through the file). They are all currently commented out (each line begins with a ;), simply remove the semicolon in from of the correct extension names. Be sure to rename the file php.ini if you haven't already done so. (See next page for example.)







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; Windows Extensions ; Note that ODBC support is built in, so no dll is needed f ; Note that many DLL files are located in the extensions/ (; extension folders as well as the separate PECL DLL downlo ; Be sure to appropriately set the extension_dir directive.	or it. PHP 4) ext/ (ad (PHP 5).	PHP 5)
<pre>; extension=php_mbstring.dll ; extension=php_bz2.dll ; extension=php_dba.dll ; extension=php_dbase.dll ; extension=php_dbase.dll ; extension=php_mff.dll ; extension=php_ff.dll ; extension=php_gd2.dll ; extension=php_gd2.dll ; extension=php_ifx.dll ; extension=php_ifx.dll ; extension=php_interbase.dll ; extension=php_interbase.dll ; extension=php_mrrypt.dll ; extension=php_mrme_magic.dll ; extension=php_ming.dll ; extension=php_msgl.dll ; extension=php_msgl.dll ; extension=php_msgl.dll ; extension=php_msgl.dll ; extension=php_msgl.dll ; extension=php_myslgi.dll ; extension=php_myslgi.dll ; extension=php_oci8.dll ; extension=php_oce8.dll ; extension=php_of8.dll ; ext</pre>		These two extensions are no longer commented out. At loadtime, these extensions will now be included in the PHP environment, provided that the file php.ini is set Note: The php_mysqli.dll extension may not appear in this list in your php.ini file. If this is the case, simply add this line. The mysql.dll extension should already be included.
;extension=php_snmp.dll ;extension=php_sqlite.dll ;extension=php_sqlite.dll ;extension=php_sybase_ct.dll ;extension=php_tidy.dll		
		2.0
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	Active Links			0	the MySQL extensions are loade
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	Directive	L	ocal Value	Master Value	looking for these entries.
	mysql.allow_persistent	On		On	
	mysql.connect_timeout	60		60	
	mysql.default_host	no value		no value	
and the second second	mysql.default_password	no value		no value	
TO AND	mysql.default_port	no value		no value	
	mysql.default_socket	no value		no value	
	mysql.default_user	no value		no value	
1. 19 2	mysql.max_links	Unlimited		Unlimited	
	mysql.max_persistent	Unlimited		Unlimited	
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	Directive	Loc	al Value	Master Value	
	mysqli.default_host	no value		no value	
	mysqli.default_port	3306		3306	
12 75 1	mysqli.default_pw	no value		no value	
The last	mysqli.default_socket	no value		no value	
- And Barris of the	mysqli.default_user	no value		no value	the second s
	mysqli.max_links	Unlimited		Unlimited	
	mysqli.reconnect	Off		10tf	

- PHP contains a fairly extensive set of commands that can be used to access and manipulate MySQL databases.
- A very brief listing of some of these commands appears on the next page.
- For a complete listing see:

http://us2.php.net/manual/en/print/ref.mysql.php.

http://us2.php.net/manual/en/print/ref.mysqli.php.



Portion of mysql.dll Extension

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Table of Contents Impsal affected rows Get number of affected rows in previous MySQL operation mysal change user Change logged in user of the active connection mysal close Close MySQL connection mysal connect Open a connection to a MySQL Server mysal data seek Move internal result pointer mysal db query Send a MySQL database mysal drop db Drop (delete) a MySQL database mysal error Returns the numerical value of the error message from previous MySQL operation mysal error Returns the text of the error message from previous MySQL operation mysal error Returns the text of the error message from previous MySQL operation mysal effecth array Fetch a result row as an associative array, a numeric array, or both mysal fetch field Get column information from a result and return as an object mysal fetch object Fetch a result row as an associative array mysal fetch object Set he length of each output in a result mysal field flags Get the length of each output in a result mysal field flags Get the flags associated with the specified field in a result mysal field flags Get the name of the specified field in a result mysal field hange Get name of the specified field in in result mysal field hange Get the name of the specified field in a result mysal field name Get the name of the specified
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Portion of mysqli.dll Extension

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	mysqli field tell Get current field offset of a result pointer mysqli free result Frees the memory associated with a result mysqli get client info Returns the MySQL client version as a string mysqli get host info Get MySQL client info mysqli get host info Returns a string representing the type of connection used mysqli get metadata Alias for mysqli stmt result metadata() mysqli get proto info Returns the version of the MySQL protocol used mysqli get server info Returns the version of the MySQL server mysqli get server version Returns the version of the MySQL server mysqli info Retrieves information about the most recently executed query mysqli info Returns the auto generated id used in the last query mysqli insert id Returns the auto generated id used in the last query mysqli mister id Returns the auto generated id used in the last query mysqli master guery Enforce execution of a query on the master in a master/slave setup mysqli more results Check if there any more query results from a multi query mysqli nulti guery Performs a query on the database mysgli num fields Get the number of fields in a result mysgli num fields Gets the number of rows in a result mysgli param count Alias for mysgli stmt param count() mysgli param count Alias for mysgli stmt param count()	
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- Now that you have PHP set to accept MySQL extensions, let's connect to the bike database that we used for examples with Java servlets and JSPs.
- The following example is a simple database connection process in PHP where the client interacts with the database from an XHTML form that simply asks them to select which attributes from the bikes table that they would like to display. This is done through the data.html file.
- When the client clicks the submit query button, the database.php script executes by connecting to the database, posting the query, retrieving the results, and displaying them to the client.



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```
data.html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
                                                                              Client side
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!-- data.html -->
<!-- Querying a MySQL Database From a PHP Script -->
<html xmlns = "http://www.w3.org/1999/xhtml">
            <title>Sample Database Query From PHP</title> </head>
 <head>
 <body style = "background-color: #545454" background=image1.jpg >
   <h2 style = "font-family: arial color: blue"> Querying a MySQL database from a PHP Script. </h2>
   <form method = "post" action = "database.php">
     Select a field to display:
       <!-- add a select box containing options for SELECT query -->
       <select name = "select">
         <option selected = "selected">*</option>
         <option>bikename</option>
         <option>size</option>
         <option>color</option>
         <option>cost</option>
         <option>purchased</option>
         <option>mileage</option>
       </select>
     <input type = "submit" value = "Send Query" style = "background-color: blue;
       color: yellow; font-weight: bold" />
   </form>
 </body> </html>
```





```
// fetch each record in result set
     for (\$counter = 0;
       $row = mysql_fetch_row( $result );
       $counter++ ){
      // build table to display results
       print( "" );
      foreach ( $row as $key => $value )
        print( "$value" );
      print( "" );
     mysql_close( $database );
   ?>
 <br />Your search yielded <strong>
     <?php print( "$counter" ) ?> results.<br /><br /></strong>
     <h5>Please email comments to
     <a href = "mailto:markl@cs.ucf.edu">
                    markl@cs.ucf.edu
     </a>
    </h5>
</body></html>
```

database.php

Server side

Page 3



Execution of data.html – Client side





Cookies

- A cookie is a text file that a Web site stores on a client's computer to maintain information about the client during and between browsing sessions.
- A Web site can store a cookie on a client's computer to record user preferences and other information that the Web site can retrieve during the client's subsequent visits. For example, many Web sites use cookies to store client's zipcodes. The Web site can retrieve the zipcode from the cookie and provide weather reports and news updates tailored to the user's region.
- Web sites also use cookies to track information about client activity. Analysis of information collected via cookies can reveal the popularity of Web sites or products.



- Marketers use cookies to determine the effectiveness of advertising campaigns.
- Web sites store cookies on users' hard drives, which raises issues regarding security and privacy. Web sites should not store critical information, such as credit-card numbers or passwords, in cookies, because cookies are just text files that anyone can read.
- Several cookie features address security and privacy concerns. A server can access only the cookies that it has placed on the client.
- A cookies has an expiration date, after which the Web browser deletes it.



- Users who are concerned about the privacy and security implications of cookies can disable them in their Web browsers. However, the disabling of cookies can make it impossible for the user to interact with Web sites that rely on cookies to function properly.
- Information stored in the cookie is sent to the Web server from which it originated whenever the user requests a Web page from that particular server. The Web server can send the client XHTML output that reflects the preferences or information that is stored in the cookie.
- The location of the cookie file varies from browser to browser. Internet Explorer places cookies in the Cookies directory located at C:\Documents and Settings\...\Cookies



• After a cookie is created, a text file is added to this directory. While the name of the file will vary from user to user a typical example is shown below.



• The contents of a cookie are shown on page 43.



- Now let's create the code necessary to create our own cookie.
- In this example, a PHP script is invoked from a client-side HTML document. The HTML document creates a form for the user to enter the information that will be stored in the cookie. (Often the information that is stored in a cookie will be extracted from several different areas and may involved tracking the client's actions at the Web site.)
- Once the user has entered their information, when they click the Write Cookie button, the cookies.php script executes.
- The XHTML document and the PHP script are shown on the next pages. The XHTML document cookies.html is on page 36 and the PHP script cookies.php appears on page 37.



```
cookies.html - page 1
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<!-- cookies.html -->
<!-- Writing a Cookie
                         -->
<html xmlns = "http://www.w3.org/1999/xhtml">
 <head> <title>Writing a cookie to the client computer</title> </head>
 <body style = "font-family: arial, sans-serif;
   background-color: #856363" background=image1.jpg>
   <h2>Click Write Cookie to save your cookie data.</h2>
   <form method = "post" action = "cookies.php" style = "font-size: 10pt"</pre>
           background-color: #856363">
     <strong>Name:</strong><br />
     <input type = "text" name = "NAME" /><br />
     <strong>Height:</strong><br />
     <input type = "text" name = "HEIGHT" /><br />
     <strong>Favorite Color:</strong><br />
     <input type = "text" name = "COLOR" /><br />
     <input type = "submit" value = "Write Cookie" style = "background-color: #0000FF;</pre>
          color: yellow; font-weight: bold" />
   </form>
 </body> </html>
```





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- Once the cookie has been created, the cookies.php script gives the user the chance to view the newly created cookie by invoking the readCookies.php script from within the cookies.php script by clicking on the link.
- The readCookies.php script code is illustrated on the next page followed by the output from the execution of this PHP script.



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```
readCookies.php - page 1
 <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
   "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
 <!-- readCookies.php
 <!-- Program to read cookies from the client's computer -->
 <html xmlns = "http://www.w3.org/1999/xhtml">
   <head><title>Read Cookies</title></head>
   <body style = "font-family: arial, sans-serif" background=image1.jpg>
    <strong> The following data is saved in a cookie on your computer.
     </strong>
    Superglobal array
      <?php
                                                            holding cookie.
       // iterate through array $ COOKIE and print
       // name and value of each cookie
       foreach ( $_COOKIE as $key => $value )
         print( "
          $key
          $value
          ");
      ?>
    </body> </html>
                                            Page 41
                                                           Mark Llewellyn ©
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	Variable			Value				
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HTTP_	ACCEPT_LANGUAGE	en-us						
	ACCEPT_ENCODING	gzip, deflate					Call Change	
	USER_AGENT	Mozilia/4.0 (0	compatible; MSIE 0.0; W	Indows NI 5.1; S	V1)			Contents
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SERVE	ER_SIGNATURE	<address>Ap.</address>	ache/2.0.55 (Win32) PHF	9/5.1.2 Server at l	ocalhost Port 8081 <td>\$></td> <td></td> <td></td>	\$>		
SERVE	ER_SOFTWARE	Apache/2.0.5	55 (Win32) PHP/5.1.2					
SERVE	ER_NAME	localhost				2		
SERVE	ER_ADDR	127.0.0.1					NR.	

