CSE417: WEB ENGINEERING

Daffodil International University

You Will Be Able To

Work with

- ✓ forms, cookies, files, time and date.
- Create a basic checker for user-entered data.

Contents

- Including Files, time and date
- Forms and Validation
- Cookies
- Session
- Handling Files

Including Files

The include() statement includes and evaluates the specified file.

```
vars.php
<?php
$color = 'green';
$fruit = 'apple';
?>
test.php
<?php
echo "A $color $fruit"; // A
include 'vars.php';
echo "A $color $fruit"; // A green apple
?>
```

```
<?php
function foo()
   global $color;
   include ('vars.php');
   echo "A $color $fruit";
/* vars.php is in the scope of foo() so
 * $fruit is NOT available outside of this
 * scope. $color is because we declared it *
 * as global.
                                            */
foo();
                          // A green apple
echo "A $color $fruit"; // A green
?>
```

*The scope of variables in "included" files depends on where the "include" file is added! You can use the include_once, require, and require_once statements in similar ways.

PHP Information

The phpinfo() function is used to output PHP information about the version installed on the server, parameters selected when installed, etc.

```
<html><head></head>
<!- info.php
<body>
<?php
// Show all PHP information
phpinfo();
?>
<?php
// Show only the general information
phpinfo(INFO_GENERAL);
?>
</body>
</html>
```

INFO_GENERAL The configuration line, php.ini location, build date, Web Server, System and more INFO_CREDITS PHP 4 credits INFO_CONFIGURATION Local and master values for php directives INFO_MODULES Loaded modules INFO_ENVIRONMENT Environment variable information INFO_VARIABLES All predefined variables from EGPCS

INFO_LICENSE PHP license information INFO_ALL Shows all of the above (default)

Server Variables

The **\$** SERVER array variable is a reserved variable that contains all server information.

```
<html><head></head>
<body>
<?php
echo "Referer: " . $_SERVER["HTTP_REFERER"] . "<br />";
echo "Browser: " . $_SERVER["HTTP_USER_AGENT"] . "<br />";
echo "User's IP address: " . $_SERVER["REMOTE_ADDR"];
?>
</body>
</html>
```

The \$_SERVER is a super global variable, i.e. it's available in all scopes of a PHP script.

PHP Global Variables - Superglobals:

The PHP superglobal variables are: \$GLOBALS, \$_SERVER, \$_REQUEST, \$_POST, \$_GET, \$_FILES, \$_ENV, \$_COOKIE, \$_SESSION

What purpose do they serve?

Form Handling

Any form element is automatically available via one of the built-in PHP variables (provided the element has a "name" defined with it).

```
<html>
<body>
<form method="GET" action="<?php echo htmlspecialchars($ SERVER['PHP SELF']);</pre>
?>">
   Name:
          <input type="text" name="name">
      Email:
          <input type="text" name="email">
      </t.r>
    <input type="submit" name="s" value="Send">
      </form>
   <?php
   if ($ SERVER["REQUEST METHOD"] == "POST") {$na =trim($ POST["name"]);
         $e =$ POST["email"];echo " name:" .$na."<br>";
      echo " email:" .$e."<br>"; }?></body></html>
```

Required Fields in User-Entered Data

A multipurpose script which asks users for some basic contact information and then checks to see that the required fields have been entered.

```
<?php
$ren=$rem='';
?>
<?php
    if($ SERVER["REQUEST METHOD"] == "POST") {
        if(empty($ POST["name"])){
            $ren="name can't be empty";
        }
            else{
                 $na =trim($ POST["name"]);
                  echo " name:" .$na."<br>";
                 }
        if(empty($ POST["email"])){
            $rem="email can't be empty";
        }
        else{
            $e =$ POST["email"];
             echo " email:" .$e."<br>";
       }
```

Cookie Workings

setcookie(name, value, expire, path, domain) creates cookies.

```
<?php
setcookie("uname", $_POST["name"], time()+36000);
?>
<html>
<body>

Dear <?php echo $_POST["name"] ?>, a cookie was set on this
page! The cookie will be active when the client has sent the
cookie back to the server.

</body>
</html>
```

```
<html>
<body>
<?php
if ( isset($_COOKIE["uname"]) )
echo "Welcome " . $_COOKIE["uname"] . "!<br />";
else
echo "You are not logged in!<br />";
?>
</body>
</html>
```

NOTE:

setcookie() must appear BEFORE <html> (or any output) as it's part of the header information sent with the page.

\$ COOKIE

contains all COOKIE data.

isset()

finds out if a cookie is set

use the cookie name as a variable

Session

- When you work with an application, you open it, do some changes, and then you close it. This is much like a Session.
 - HTTP address doesn't maintain state.
 - Session variables solve this problem by storing user information to be used across multiple pages (e.g. username, favorite color, etc).
 - By default, session variables last until the user closes the browser.
 - Session variables hold information about one single user
 - available to all pages in one application. ie, logged in

Example

</html>

```
<?php
// Start the session
session_start();
?>
<!DOCTYPE html>
<html>
<body>
<?php
// Set session variables
$_SESSION["favcolor"] = "green";
$_SESSION["favanimal"] = "cat";
echo "Session variables are set.";
?>
</body>
```

File Open

The fopen ("file_name", "mode") function is used to open files in PHP.

r	r	Read only.	r+	Read/Write.
١	W	Write only.	w+	Read/Write.
a	а	Append.	a+	Read/Append.
)	X	Create and open for write only	. х+	Create and open for read/write.

php</th <th></th>	
<pre>\$fh=fopen("welcome.txt","r");</pre>	
?>	

For w, and a, if no file exists, it tries to create it (use with caution, i.e. check that this is the case, otherwise you'll overwrite an existing file).

<?php
if
(!(\$fh=fopen("welcome.txt","r")))
exit("Unable to open file!");
?>

For x if a file exists, it returns an error.

If the fopen () function is unable to open the specified file, it returns 0 (false).

File Workings

fclose() closes a file.

 ${\tt fgetc}$ () reads a single character

fwrite(), fputs () writes a string with and without \n

```
<?php
$myFile = "welcome.txt";
if (!($fh=fopen($myFile,'r')))
exit("Unable to open file.");
while (!feof($fh))
{
    $x=fgetc($fh);
    echo $x;
    }
fclose($fh);
?>
```

```
<?php
$lines = file('welcome.txt');
foreach ($lines as $l_num =>
$line)
{
   echo "Line #{$l_num}:"
.$line."<br/>;
}
```

 ${\tt feof}$ () determines if the end is true.

 ${\tt fgets}$ () reads a line of data

file () reads entire file into an array

```
<?php
$myFile = "welcome.txt";
$fh = fopen($myFile, 'r');
$theData = fgets($fh);
fclose($fh);
echo $theData;
?>
```

```
<?php
$myFile = "testFile.txt";
$fh = fopen($myFile, 'a') or
die("can't open file");
$stringData = "New Stuff 1\n";
fwrite($fh, $stringData);
$stringData = "New Stuff 2\n";
fwrite($fh, $stringData);
fclose($fh);
?>
```

Getting Time and Date

date() and time () formats a time or a date.

```
<!DOCTYPE html>
<html>
<body>
<?php
echo "Today is " . date("Y/m/d") . "<br>";
echo "Today is " . date("Y.m.d") . "<br>";
echo "Today is " . date("Y-m-d") . "<br>";
echo "Today is " . date("Y-m-d") . "<br>";
echo "Today is " . date("l");
?>
</body>
</html>
```

date() returns a string formatted according to the specified format.

time() returns current Unix timestamp

*Here is more on date/time formats: http://php.net/date