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LEARNING TOPICS

- include file
- File Input/Output
 - I/O functions
 - Reading/writing files
 - Appending to a file
 - `file` function
- PHP Exceptions
- **PHP File Upload**

PHP include file

PHP Include File

- ▶ Insert the content of one PHP file into another PHP file before the server executes it
- ▶ Use the
 - ▶ `include()` generates a warning, but the script will continue execution
 - ▶ `require()` generates a fatal error, and the script will stop

include () example

```
<a href="/default.php">Home</a>
<a href="/tutorials.php">Tutorials</a>
<a href="/references.php">References</a>
<a href="/examples.php">Examples</a>
<a href="/contact.php">Contact Us</a>
```

PHP

```
<html>
<body>

<div class="leftmenu">
<?php include("menu.php"); ?>
</div>

<h1>Welcome to my home page.</h1>
<p>I have a great menu here.</p>

</body>
</html>
```

PHP

PHP File Input/Output

PHP file I/O functions

function name(s)	category
file, file_get_contents, file_put_contents	reading/writing entire files
fileperms, filemtime, is_dir, is_readable, is_writable, disk_free_space basename, file_exists, filesize,	asking for information
copy, rename, unlink, chmod, chgrp, chown, mkdir, rmdir	manipulating files and directories
glob, scandir	reading directories

The `file` function

```
# display lines of file as a bulleted list
$lines = file("todolist.txt");
foreach ($lines as $line) {
    ?>
    <li> <?=  
$line ?> </li>
<?php
}
?>
```

PHP

- ▶ `file` returns the lines of a file as an array of strings
- ▶ each string ends with `\n`
- ▶ to strip the `\n` off each line, use optional second parameter:

```
$lines = file("todolist.txt", FILE_IGNORE_NEW_LINES);
```

PHP

Reading/writing files

contents of foo.txt	file("foo.txt")	file_get_contents("foo.txt")
Hello how are you? I'm fine	<pre>array("Hello\n", #0 "how are\n", #1 "you?\n", #2 "\n", #3 "I'm fine\n" #4)</pre>	<pre>"Hello\n how are\n you?\n \n I'm fine\n"</pre>

- file returns lines of a file as an array
- file_get_contents returns entire contents of a file as a string

Reading/writing an entire file

```
# reverse a file
$text = file_get_contents ("poem.txt");
$text = strrev($text);
file_put_contents ("poem.txt", $text);
```

PHP

- ▶ `file_get_contents` returns entire contents of a file as a string
- ▶ `file_put_contents` writes a string into a file, replacing any prior contents

Appending to a file

```
# add a line to a file
$new_text = "P.S. ILY, GTG TTYL!~";
file_put_contents("poem.txt", $new_text,
FILE_APPEND);
```

PHP

old contents

Roses are red,
Violets are blue.
All my base,
Are belong to you.

new contents

Roses are red,
Violets are blue.
All my base,
Are belong to you.
P.S. ILY, GTG TTYL!~

Unpacking an array: `list`

```
list($var1, ..., $varN) = array;
```

PHP

```
$values = array("mundruid", "18", "f", "96");  
...  
list($username, $age, $gender, $iq) = $values;
```

PHP

- ▶ the `list` function accepts a comma-separated list of variable names as parameters
- ▶ use this to quickly "unpack" an array's contents into several variables

Fixed-length files, `file` and `list`

```
Xenia Mountrouidou  
(919) 685-2181  
570-86-7326
```

contents of file `personal.txt`

```
list($name, $phone, $ssn) = file("personal.txt");  
PHP
```

- ▶ reads the file into an array of lines and unpacks the lines into variables
- ▶ Need to know a file's exact length/format

Splitting/joining strings

- ▶ explode strings and arrays
- ▶ Implode convert array into string.

```
$array = explode(delimiter, string);  
$string = implode(delimiter, array);
```

PHP

```
$class = "CS 380 01";  
$class1 = explode(" ", $s); # ("CS", "380", "01")  
$class2 = implode("...", $a); # "CSE...380...01"
```

PHP

Example explode

```
Harry Potter, J.K. Rowling  
The Lord of the Rings, J.R.R. Tolkien  
Dune, Frank Herbert
```

contents of input file books.txt

```
<?php foreach (file("books.txt") as $book) {  
    list($title, $author) = explode("", $book);  
    ?>  
    <p> Book title: <?= $title ?>, Author: <?=  
$author ?> </p>  
<?php  
}  
?>
```

PHP

Reading directories

Functions	Description
scandir	returns an array of all file names in a given directory (returns just the file names, such as "myfile.txt")
glob	returns an array of all file names that match a given pattern (returns a file path and name, such as "foo/bar/myfile.txt")

Example for `glob`

- ▶ `glob` can match a "wildcard" path with the `*` character
- ▶ the `basename` function strips any leading directory from a file path

```
# reverse all poems in the poetry directory
$poems = glob("poetry/poem*.dat");
foreach ($poems as $poemfile) {
    $text = file_get_contents($poemfile);
    file_put_contents($poemfile, strrev($text));
    print "I just reversed " .
basename($poemfile);
}
```

PHP

Example for scandir

```
<ul>
<?php
$folder = "taxes/old";
foreach (scandir($folder) as $filename) {
    ?>
    <li> <?= $filename ?> </li>
<?php
}
?>
</ul>
```

PHP

- .
- ..
- 2009_w2.pdf
- 2007_1099.doc

output

PHP File Upload

PHP allows you to upload single and multiple files through few lines of code only. PHP file upload features allows you to upload binary and text files both. Moreover, you can have the full control over the file to be uploaded through PHP authentication and file operation functions.

PHP \$_FILES

The PHP global `$_FILES` contains all the information of file. By the help of `$_FILES` global, we can get file name, file type, file size, temp file name and errors associated with file.

Here, we are assuming that file name is *filename*.

`$_FILES['filename']['name']`
returns file name.

`$_FILES['filename']['type']`
returns MIME type of the file.

`$_FILES['filename']['size']`
returns size of the file (in bytes).

`$_FILES['filename']['tmp_name']`
returns temporary file name of the file which was stored on the server.

`$_FILES['filename']['error']`
returns error code associated with this file.

`move_uploaded_file()` function

The `move_uploaded_file()` function moves the uploaded file to a new location. The `move_uploaded_file()` function checks internally if the file is uploaded thorough the POST request. It moves the file if it is uploaded through the POST request.

Syntax

```
bool move_uploaded_file ( string $filename , string $destination )
```

PHP File Upload Example

File: uploadform.html

```
1.<form action="uploader.php" method="post" enctype="multipart/form-data">
2.  Select File:
3.  <input type="file" name="fileToUpload"/>
4.  <input type="submit" value="Upload Image" name="submit"/>
5.</form>
```

File: uploader.php

```
1.<?php
2.$target_path = "e:/";
3.$target_path = $target_path.basename( $_FILES['fileToUpload']['name']);

4.
5.if(move_uploaded_file($_FILES['fileToUpload']['tmp_name'], $target_path
)) {
6.  echo "File uploaded successfully!";
7.} else{
8.  echo "Sorry, file not uploaded, please try again!";
9.}
10.?.>
```

PHP Exceptions

Exceptions

- ▶ Used to change the normal flow of the code execution if a specified error (exceptional) condition occurs.
- ▶ What normally happens when an exception is triggered:
 - ▶ current code state is saved
 - ▶ code execution will switch to a predefined (custom) exception handler function
 - ▶ the handler may then
 - ▶ resume the execution from the saved code state,
 - ▶ terminate the script execution or
 - ▶ continue the script from a different location in the code

Exception example

```
<?php
//create function with an exception
function checkStr($str)
{
    if(strcmp($str, "correct") != 0)
    {
        throw new Exception("String is not correct!");
    }
    return true;
}

//trigger exception
checkStr("wrong");
?>
```

PHP

Exception example (cont.)



```
<?php
//create function with an exception
function checkStr($str)
{
...
}

//trigger exception in a "try" block
try
{
    checkStr("wrong");
    //If the exception is thrown, this text will not be
shown
    echo 'If you see this, the string is correct';
}

//catch exception
catch(Exception $e)
{
    echo 'Message: ' . $e->getMessage();
}

?>
```

PHP



Thank You

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