#### **PHP File Handling**



# **PHP File Handling**

- PHP file handling involves different tasks:
  - Creating a file
  - Reading data from a file
  - Updating file content
  - Uploading files

#### **Opening a File with PHP fopen() Function**

• The PHP fopen() function is used to open a file. The basic syntax of the fopen() function can be given with:



- The first parameter passed to fopen() specifies the name of the file you want to open.
- The second parameter specifies in which mode the file should be open.

```
<?php
$handle = fopen("data.txt", "r");
?>
```

#### The file may be opened in one of the following modes:

Modes	What it does
r	Opens the file for reading only.
w	Opens the file for writing only and clears the contents of file. If files does not exist then it attempts to create a file.
а	Append. Opens the file for writing only. Preserves file content by writing to the end of the file. If files does not exist then it attempts to create a file.
x	Create a new file . Returns FALSE and an error if file already exists.

# **Closing a File with PHP fcolse()** Function

• The fclose() function is used to close the file.

```
<html>
    <head>
        <title>File Closing Example</title>
    </head>
    <body>
        <?php
        if (file exists("data.txt")) {
            $file = fopen("data.txt", "r");
        } else {
            die("Error: The file you are trying to access doesn't exist.");
        // Some code to be executed
        // Closing the file handle
        fclose($file);
        ?>
    </body>
</html>
```

#### **Reading from Files Using the PHP fread() Function**

- PHP has several functions for reading data from a file.
- We can read from just one character to the entire file with a single operation.

## **Reading Strings of Characters**

- The fread() function can be used to read a string of characters from a file.
- The basic syntax of this function can be given with.

	<pre>fread(file</pre>	handle,	length	in	bytes)
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#### **Example:**

```
<html>
    <head>
        <meta charset="UTF-8">
       <title></title>
    </head>
    <body>
        <?php
        $file = "data.txt";
        $handle = fopen($file, "r") or die("ERROR: Cannot open the file");
        $content = fread($handle, "20");
        fclose($handle);
        echo $content;
        ?>
   </body>
</html>
```

# **Reading an Entire File**

- The fread() function uses the filesize() function to read the entire file at once.
- The filesize() function is used to determine the number of characters that should be read in.
- The file\_get\_contents() function also can be used to read the entire file into a string variable without needing to open it.

#### **Example -** UsingThe filesize() function

```
<html>
    <head>
        <meta charset="UTF-8">
        <title></title>
    </head>
    <body>
        <?php
        $file = "data.txt";
        $handle = fopen($file, "r") or die("ERROR: Cannot open the file");
        $content = fread($handle, filesize($file));
        fclose($handle);
        echo $content;
        ?>
    </body>
</html>
```

#### Example - Using file\_get\_contents()

```
<html>
    <head>
        <meta charset="UTF-8">
        <title></title>
    </head>
    <body>
        <?php
        $file = "data.txt";
        // Reading the entire file into a string
        $content = file get contents($file) or die("ERROR: Cannot open the file");
        // Display the file content
        echo $content;
        ?>
    </body>
</html>
```

# Writing the Files Using PHP

- In PHP, to write data to a file or append to an existing file the PHP fwrite() function is used .
- The basic syntax of this function can be given with:



- The fwrite() function takes two parameter , a file handle and the string of data that is to be written.
- The file\_put\_contents() function can be used to write data to a file without needing to open it.
- The file\_put\_contents() function accepts the name of a file together with the data to be written to the file.

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## Example – Using fwrite()

```
<html>
    <head>
        <meta charset="UTF-8">
        <title></title>
    </head>
    <body>
        <?php
        $file = "data.txt";
        $newData = "The capital city of Libya is Tripoli.";
        $handle = fopen($file, "w") or die("ERROR: Cannot open the file");
        fwrite($handle, $newData) or die("ERROR: Cannot write the file");
        fclose($handle);
        echo "Data written to the file successfully";
        ?>
    </body>
</html>
```

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## Example - Using file\_put\_contents()

```
<html>

<head>

<meta charset="UTF-8">

<title></title>

</head>

<body>

<file = "data.txt";

$data = "The capital city of Libya is Tripoli.";

file_put_contents($file, $data) or die("ERROR: Cannot write the file");

echo "Data written to the file successfully";

?>

</body>

</html>
```

# **Example - FILE\_APPEND flag**

- If the file specified in the file\_put\_contents() already exists, it will overwirte it by default.
- If you would like to preserve the file's contents you can pass the special FILE\_APPEND flag as a third parameter to the file\_put\_contents() function.

```
<html>
<h
```

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## **PHP Filesystem Functions**

• The following table provides the overview of some other useful PHP filesystem functions that can be used for reading and writing the files dynamically.

Function	Description
fread()	Reads a string of characters from a file.
fwrite()	Writes a string of characters to a file.
fgetc()	Reads a single character at a time.
feof()	Checks to see if the end of the file has been reached.
fgets()	Reads a single line at a time.
fgetcsv()	Reads a line of comma - separated values.
file_get_contents()	Reads an entire file into a string without needing to open it.
file_put_contents()	Writes a whole string to a file without needing to open it.
fseek()	Moves the file pointer to a specific location within an open file.
rewind()	Moves the file pointer to the start of the file.

# **Uploading Files with PHP**

- Using PHP we can upload any kind of file like:
  - images
  - videos
  - Microsoft Office documents
  - PDFs

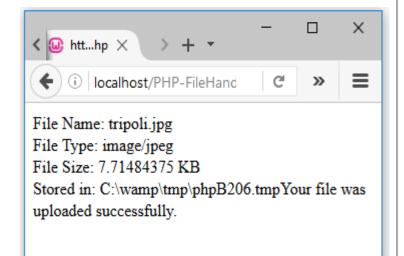
#### **Example:**

- This example uses a simple HTML form to upload files to the server.
  - The form must use the **post** method.
  - It must contain also an enctype="multipart/form-data" attribute.

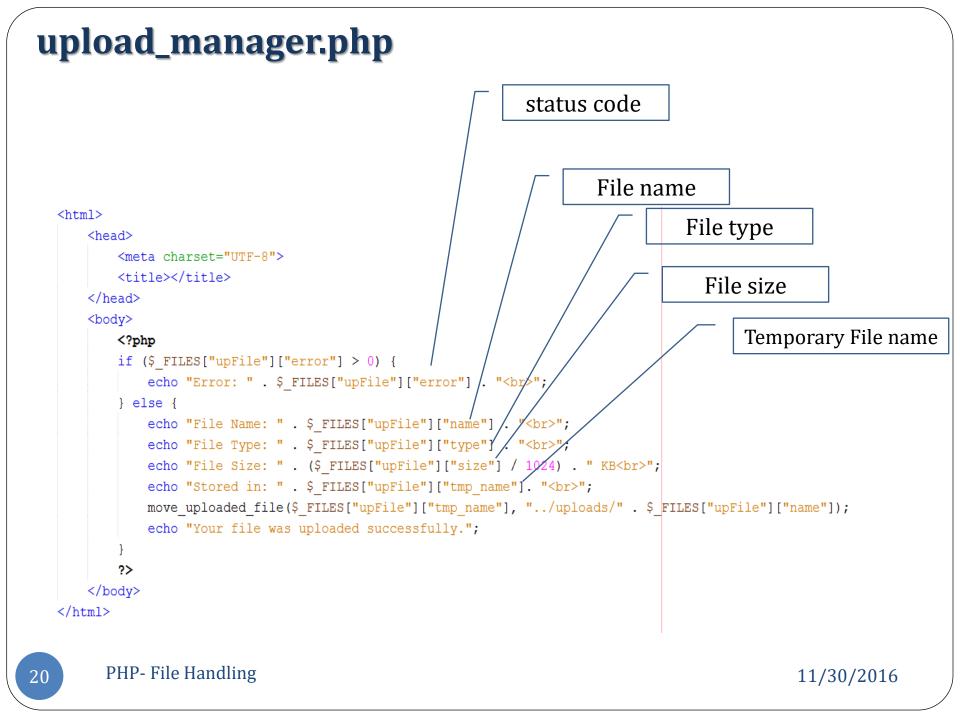
```
<html>
    <head>
        <title>File Upload Form</title>
    </head>
    <body>
        <form action="upload manager.php" method="post" enctype="multipart/form-data">
            <h2>Upload File</h2>
            Filename:
            <input type="file" name="upFile" ><br>
            <input type="submit" name="submit" value="Upload">
        </form>
    </body>
</html>
```

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Upload File Filename: Browse No file selected. Upload				1



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#### **Example:**

• In this example, we check the file type and file size to ensure that the correct file type and within the allowed limit is uploaded.

```
<html>
    <head>
        <title>image uploading</title>
    </head>
    <body>
        <form action="upload.php" method="post" enctype="multipart/form-data">
            Select image to upload:
            <input type="file" name="upFile" ><br>
            <input type="submit" value="Upload Image" name="submit">
        </form>
    </body>
</html>
```

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```
<html>
           <title></title>
       </head>
       <body>
           <?php
           if ($ FILES["upFile"]["error"] > 0) {
               echo "Error: " . $ FILES["upFile"]["error"] . "<br>";
           } else {
               $filename = $ FILES["upFile"]["name"];
               $filetype = $ FILES["upFile"]["type"];
               $filesize = $ FILES["upFile"]["size"];
               $fileExtention = pathinfo($filename, PATHINFO EXTENSION);
               // Verify file type
               if ($fileExtention != "jpg" && $fileExtention != "jpeg"
                                  && $fileExtention!= "png" && $fileExtention != "gif")
                   die("Error: Please select a valid file format.");
               // Verify file size - 5MB maximum
               $maxsize = 5 * 1024 * 1024;
               if ($filesize > $maxsize) {
                   die("Error: File size is larger than the allowed limit.");
               //upload file
               move_uploaded_file($_FILES["upFile"]["tmp name"], "../uploads/" . $filename );
               echo "Your file was uploaded successfully.";
           ?>
       </body>
   </html>
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```

# Thanks!