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File Handling

- This involves 5 tasks
 - 1. Opening a file
 - 2. Reading data from a file
 - Displaying the read data
 - 3. Writing contents to another file
 - 4. Closing a file
 - 5. File Uploading

1. Opening a file

- \$fp = fopen('filename','mode');
- E.g.

```
$fp = fopen('c:\abc.txt','r');
```

- This opens a file abc.txt in read only mode
- Available modes:
 - r read only
 - w write only
 - r+ / w+ read write
 - a append adding to the end
 - x- write by creating new file

File modes and description

Mode	Description
r	Open a file for read only.
	File pointer starts at the
	beginning of the file
W	Open a file for write only. File
	pointer starts at the beginning
	of the file

File modes and description

Mode	Description
a	Open a file for write only. File pointer starts at the end of the file. Creates a new file if the file doesn't exist
X	Creates a new file for write only. Returns FALSE and an error if file already exists

File modes and description

Mode	Description
r+	Open a file for read/write. File pointer starts at the beginning of the file
W+	Open a file for read/write. Erases the contents of the file or creates a new file if it doesn't exist. File pointer starts at the beginning of the file

fopen

- <?php</pre>
- \$myfile = fopen("abc.txt", "r") or die("Unable to open file!");
- echo ''.
 fread(\$myfile,filesize("abc.txt")).'';
- fclose(\$myfile);
- ?>

2. Reading a file

- Several methods are available
 - fread(filepointer, no of bytes to read)
 - fgetc(filepointer) Reads character by character
 - fgets(filepointer) Reads line by line
- The read content can be stored in a variable
- \$data = fread(\$fp,10) this reads 10 characters from file pointed by file pointer \$fp and stores in \$data
- If we want to read characters till end, we need to use a loop with condition checking for End of File

Reading a File – fgets()

 The fgets() function is used to read a single line from a file.

```
<?php
$myfile = fopen("abc.txt", "r") or die("Unable to
    open file!");
echo fgets($myfile);
fclose($myfile);
?>
```

feof()

- feof(fp) Checks for end of file.
- Returns –1 if EOF is reached. Otherwise returns 0

```
<?php
$myfile = fopen("abc.txt", "r") or die("Unable to
  open file!");
while(!feof($myfile)) {
echo fgets($myfile) . "<br>";
fclose($myfile);
```

- \$file = "abc.txt";
- // read file contents into string
- \$str = file_get_contents(\$file) or die("Can not read from file");
- echo \$str ."
";
- // read file into array
- \$array = file(\$file) or die("Can not read from file");

3. Writing to file

- We can use echo \$data, to print the contents read from the file to browser
- Or we can open another file in write mode and put the contents to that file using either of these methods
 - fwrite(filepoiner,data);
 - fputc(filepointer,char); writes character by character
 - fputs(filepointer,line); writes line by line
- Eg fwrite(\$fpw,\$data);

Writing a file – fwrite()

 The fwrite(filename, text to be written) function is used to write to a file.

4. Closing a file

- To close a file use fclose(filepointer) method
- Eg. fclose(\$fp);
 - This closes the file pointed by \$fp.

file_exists and filesize()

```
<?php
if (file exists("abc.txt"))
echo 'file exists';
else
echo 'filedoes not exist';
echo filesize("abc.txt");
?>
```

```
Delete a file
<?php
if (file exists("abc.txt"))
echo 'file exists';
else
echo 'filedoes not exist';
echo filesize("abc.txt");
unlink("abc.txt");
if (file exists("abc.txt"))
echo 'not deleted';
else
echo 'got deleted';
```

File Uploading

In your "php.ini" file, search for the file_uploads directive, and set it to On:

file_uploads = On

Five Variables

- 1. \$_FILES['file']['name'] the actual name of the uploaded file.
- 2. \$_FILES['file']['tmp_name'] the uploaded file in the temporary directory on the web server.
- 3. \$_FILES['file']['size'] the size in bytes of the uploaded file.
- **4.** \$_FILES['file']['type'] the MIME type of the uploaded file.
- **5.** \$_FILES['file']['error'] the error code associated with this file upload.

File Uploading - Steps

Step 1: Create The HTML Form

Some rules to follow for the HTML form:

- Make sure that the form uses method="post"
- The form also needs the following attribute: enctype="multipart/form-data".
 It specifies which content-type to use when submitting the form

Step 2: Create The Upload File PHP Script

- **\$target_dir** = "uploads/" specifies the directory where the file is going to be placed
- \$target_file specifies the path of the file to be uploaded
- \$imageFileType holds the file extension of the file

Step 3: Upload the file

move_uploaded_file - upload file

Create HTML form (fileup.html)

```
<html><body>
<form action="fileup1.php" method="post"
  enctype="multipart/form-data">
Select File to Upload:
<BR><input type="file" name="fileToUpload"</pre>
  id="fileToUpload">
 <BR><input type="submit" value="Upload File"
  name="submit">
</form>
```

File upload (fileup1.php)

```
<?php
$target_dir = "e:/uploads/";
$target_file = $target_dir . basename($_FILES["fileToUpload"]["name"]);
$imageFileType = pathinfo($target_file,PATHINFO_EXTENSION);
move_uploaded_file($_FILES["fileToUpload"]["tmp_name"], $target file);
echo "The file". basename( $_FILES["fileToUpload"]["name"]). " has been
   uploaded successfully";?>
```

?>

Check if file already exists

```
if (file_exists($target_file)) {
```

- echo "Sorry, file already exists.";}
- \$uploadOk = 0;

Limit File Size

```
    // Check file size
if ($_FILES["fileToUpload"]["size"] > 500000) {
    echo "Sorry, your file is too large.";
    $uploadOk = 0;
}
```

 If the file is larger than 500KB, an error message is displayed, and \$uploadOk is set to
 0

Limit File Type

```
    // Allow certain file formats

  $imageFileType =
  pathinfo($target file,PATHINFO_EXTENSION);
if($imageFileType != "jpg" && $imageFileType
  != "png" && $imageFileType != "jpeg"
  && $imageFileType != "gif" ) {
    echo "Sorry, only JPG, JPEG, PNG & GIF files
  are allowed.";
\frac{\text{$uploadOk} = 0;}{\text{$uploadOk}}
```

 // Check if \$uploadOk is set to 0 by an error if $(\sup odOk == 0)$ { echo "Sorry, your file was not uploaded."; // if everything is ok, try to upload file } else { if (move_uploaded_file(\$_FILES["fileToUploa d"]["tmp name"], \$target_file)) { echo "The file ". htmlspecialchars(basename(\$ FILES["fileToUpload"]["name"])). " has been uploaded.";}

Reference

 https://www.w3schools.com/php/php_file_up load.asp