

Including file & Upload file in PHP

Objectives

- Including file in PHP
- Upload file in PHP

- The include (or require) statement takes all the text/code/markup that exists in the specified file and copies it into the file that uses the include statement.
- Including files is very useful when you want to include the same PHP, HTML, or text on multiple pages of a website.

- It is possible to insert the content of one PHP file into another PHP file (before the server executes it), with the include or require statement.
- The include and require statements are identical, except upon failure:
 - ❖ require statement will produce a fatal error (E_COMPILE_ERROR) and stop the script
 - ❖ include statement will only produce a warning (E_WARNING) and the script will continue

- So, if you want the execution to go on and show users the output, even if the include file is missing, use the include statement.
- Otherwise, in case of FrameWork, CMS, or a complex PHP application coding, always use the require statement to include a key file to the flow of execution.
- This will help avoid compromising your application's security and integrity, just in-case one key file is accidentally missing.
- Including files saves a lot of work. This means that you can create a standard header, footer, or menu file for all your web pages. Then, when the header needs to be updated, you can only update the header include file.

■ Syntax

```
include 'filename';
```

or

```
require 'filename';
```

■ Example

```
<html>
```

```
<body>
```

```
<h1>Welcome to my home page!</h1>
```

```
<p>Some text.</p>
```

```
<p>Some more text.</p>
```

```
<?php include 'footer.php';?>
```

```
</body>
```

```
</html>
```

PHP include vs. require

- The require statement is also used to include a file into the PHP code.
- However, there is one big difference between include and require; when a file is included with the include statement and PHP cannot find it, the script will continue to execute, the require statement returned a fatal error

```
<html>
<body>

<h1>Welcome to my home page!</h1>
<?php require 'noFileExists.php';
echo "I have a $color $car.";
?>

</body>
</html>
```

- Teacher demo creating layout of web page by including files

- A PHP script can be used with a HTML form to allow users to upload files to the server. Initially files are uploaded into a temporary directory and then relocated to a target destination by a PHP script.
- An uploaded file could be a text file or image file or any document.
- The process of uploading a file follows these steps
 - ❖ The user opens the page containing a HTML form featuring a text field, a browse button and a submit button.
 - ❖ The user clicks the browse button and selects a file to upload from the local PC.
 - ❖ The full path to the selected file appears in the text field then the user clicks the submit button.
 - ❖ The selected file is sent to the temporary directory on the server.
 - ❖ The PHP script that was specified as the form handler in the form's action attribute checks that the file has arrived and then copies the file into an intended directory.
 - ❖ The PHP script confirms the success to the user.

Creating an upload script

- There is one global PHP variable called **\$_FILES**. This variable is an associate double dimension array and keeps all the information related to uploaded file.
- So if the value assigned to the input's name attribute in uploading form was **file**, then PHP would create following five variables
 - ❖ **\$_FILES['file']['tmp_name']** – the uploaded file in the temporary directory on the web server.
 - ❖ **\$_FILES['file']['name']** – the actual name of the uploaded file.
 - ❖ **\$_FILES['file']['size']** – the size in bytes of the uploaded file.
 - ❖ **\$_FILES['file']['type']** – the MIME type of the uploaded file.
 - ❖ **\$_FILES['file']['error']** – the error code associated with this file upload.

Example

```
<?php
    if(isset($_FILES['image'])){
        $errors= array();
        $file_name = $_FILES['image']['name'];
        $file_size =$_FILES['image']['size'];
        $file_tmp =$_FILES['image']['tmp_name'];
        $file_type=$_FILES['image']['type'];
        $file_ext=strtolower(end(explode('.',$_FILES['image']['name'])));

        $extensions= array("jpeg","jpg","png");

        if(in_array($file_ext,$extensions)=== false){
            $errors[]="extension not allowed, please choose a JPEG or PNG file.";
        }

        if($file_size > 2097152){
            $errors[]='File size must be excately 2 MB';
        }

        if(empty($errors)==true){
            move_uploaded_file($file_tmp,"images/".$file_name);
            echo "Success";
        }else{
            print_r($errors);
        }
    }
?>
<html>
    <body>

        <form action="" method="POST" enctype="multipart/form-data">
            <input type="file" name="image" />
            <input type="submit"/>
        </form>

    </body>
</html>
```

- Some rules to follow for the HTML form above:
 - ❖ 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
 - ❖ Without the requirements above, the file upload will not work.
 - ❖ The `type="file"` attribute of the `<input>` tag shows the input field as a file-select control, with a "Browse" button next to the input control

- Teacher demo code about uploading file process for students.