#### Lecture 21

Handling Files In particular, uploading files.

Course logo spider web photograph from Morguefile openstock photograph by Gabor Karpati, Hungary.

#### **Overall Workflow**

> User Uploads File Do necessary data validation > Check file type, size, etc.  $\succ$  Move temp file to permanent location. > Two step process provide a level of protection. Record the transaction in a database > Accurate record of site accessible files.

#### Setting Up the Form

> Set Form Encode Type
 <form method='post'
 enctype='multipart/form-data'>
> Create form element
 <input type='file'
 name='filename' size='10'>

## *\$\_FILES Array*

#### How file information is passed back to PHP on the Server.

#### **Array element**

\$\_FILES['file']['name'] ... The name of the uploaded file (e.g., smiley.jpg)
\$\_FILES['file']['type'] ... The content type of the file (e.g., image/jpeg - More Next)
\$\_FILES['file']['size'] ... The file's size in bytes
\$\_FILES['file']['tmp\_name']... The name of the temporary file stored on the server
\$\_FILES['file']['error'] ... The error code resulting from the file upload

## Common Media Types

application/pdf image/gif multipart/formdata text/xml application/zip image/jpeg text/css video/mpeg

audio/mpeg image/png text/html video/mp4 audio/x-wav image/tiff text/plain video/quicktime

## Types of Validation

File Type > Make sure appropriate type Make sure file extension matches type ➢ File Size Check size of file > PHP has a maximum size which is set in php.ini

# Saving

Often files are saved to the local disk move\_uploaded\_file()

Also possible to save to DB. However, large files can't be saved in SQLite and this in practice isn't used very much.

However, we often save a record in the DB referencing the file (see example)

#### Extended Example Intro

 > We will demonstrate key features with an extended example: lec21.zip
 > Note, it will not allow uploads on the CS Server – think about security.

You will download to your own site and experiment.

>And then disable if on a public server!

# Extended Example Page

localhost/courses/ct310/yr2016sp/aplay/lec21/inde

CT 310: Handling File Uploads : Handling Files

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#### CT 310: Handling File Uploads

Start Page

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This example walks through file handleing with PHP.

Choose File no file selected

#### **Uploaded Files**



# Extended Example Roadmap

#### Similar overall structure as before.

File	Explanation
index.php	Main page for uploading files showin previous uploads.
getImage.php	PHP retrieves image stored in the uploads folder.
createdb.php	To restart example delete images.db and load this URL.
images.db	The SQLite database recording uploaded images.
testsrc	Folder with some example images for testing.
uploads	Where validated uploaded images are placed.
uploads/000001.png	Example of an uploaded image.
<pre>inc/page_setup.php</pre>	Top level that then includes components.
inc/header.php	Common include file for the page header.
inc/footer.php	Common include file for the page footer.
inc/sidenav.php	Common include file for the navigation.
lib/config.php	File generally requiring web master to edit configuration.
lib/database.php	Extension to PDO for working with image records.