

CTIS 256 Web Technologies II

Note # 10 – File Uploading

Serkan GENÇ

POST Request (form data)

Member Form

Name Lastname

Ali Gül

Department

CTIS

Birthday

1995-12-03

SEND ➤

```
<form action="add.php" method="post">
  <div class="input-field">
    <input name="name" id="name" type="text" class="validate">
    <label for="name">Name Lastname</label>
  </div>

  <div class="input-field">
    <input name="department" id="department" type="text" class="validate">
    <label for="department">Department</label>
  </div>

  <div class="input-field">
    <input name="bday" id="bday" type="text" class="validate">
    <label for="bday">Birthday</label>
  </div>

  <button class="btn waves-effect waves-light" type="submit" name="action">Send
  <i class="material-icons right">send</i>
</button>
</form>
```

Request Line

POST /upload/add.php HTTP/1.1

Request Headers

Host: localhost

Connection: keep-alive

Content-Length: 57

Cache-Control: max-age=0

Origin: http://localhost

Content-Type: application/x-www-form-urlencoded

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64)

Request Body

name=Ali+G%C3%BCl&department=CTIS&bday=1995-12-03&action=

x-www-form-urlencoded : only for form data

POST Request (form data)

Member Form

Name Lastname

Ali Gül

Department

CTIS

Birthday

1995-12-03

SEND ➤

Request Line

POST /upload/add.php HTTP/1.1

Request Headers

Host: localhost

Connection: keep-alive

Content-Length: 438

Cache-Control: max-age=0

Origin: http://localhost

Content-Type: multipart/form-data; boundary=---WebKitFormBoundary

Request Body

-----WebKitFormBoundaryJA5FR3kguKv5JXoD

Content-Disposition: form-data; name="name"

Ali GÜL

-----WebKitFormBoundaryJA5FR3kguKv5JXoD

Content-Disposition: form-data; name="department"

CTIS

-----WebKitFormBoundaryJA5FR3kguKv5JXoD

Content-Disposition: form-data; name="bday"

1999-09-19

```
<form action="add.php" method="post" enctype="multipart/form-data">
  <div class="input-field">
    <input name="name" id="name" type="text" class="validate">
    <label for="name">Name Lastname</label>
  </div>

  <div class="input-field">
    <input name="department" id="department" type="text" class="validate">
    <label for="department">Department</label>
  </div>

  <div class="input-field">
    <input name="bday" id="bday" type="text" class="validate">
    <label for="bday">Birthday</label>
  </div>

  <button class="btn waves-effect waves-light" type="submit" name="action">Send
  <i class="material-icons right">send</i>
</button>
</form>
```

FILE UPLOADING

Web Client (Browser)

Web Client (Browser) form:

Name:

Profile:

1

```
<form action="insert.php" method="post"
  enctype="multipart/form-data">
```

```
<input type="text" name="username">
```

```
<input type="file" name="profile">
```

```
<input type="submit" value="Upload">
```

```
</form>
```

* enctype = "application/x-www-form-urlencoded" by default.

2

Web Server (Apache)

POST HTTP REQUEST

Request Line { POST insert.php HTTP/1.1

Request header { Host: localhost
Content-Type: multipart/form-data; boundary=...
Content-Length: 7365
...

body { ---WebKitBoundary BFK135
Content-Disposition: form-data; name="username"
ali } form-data
---WebKitBoundary BFK135
Content-Disposition: form-data; name="profile";
filename="photo.jpg" } file #1
Content-Type: image/jpeg
q13c7b573cEAk3w ...
... (base64 encoded binary data)
... } other files

php.ini

```
file_uploads=on
upload_tmp_dir="c:\wamp64\tmp"
upload_max_filesize=5M
max_file_uploads=10
post_max_size=20M
```

Post

PHP
(Engine)

3

c:\wamp64\tmp\php7138.tmp
...

```
$_POST["username"]  
$_FILES["profile"]
```

insert.php
uses
\$_POST
\$_FILES

4

php script moves
temporary files into
application folder.

`$_FILES`

- `$_FILES["file_box_name"]["name"]` : actual filename
- `$_FILES["file_box_name"]["type"]` : mime type of the file
 - mime type: image/jpeg, application/pdf, application/vnd.rar
- `$_FILES["file_box_name"]["tmp_name"]` : temporary file name
- `$_FILES["file_box_name"]["error"]` : upload error code
 - `UPLOAD_ERR_OK`: 0
 - `UPLOAD_ERR_INI_SIZE`: 1
 - `UPLOAD_ERR_FORM_SIZE`: 2
 - `UPLOAD_ERR_NO_TMP_DIR`: 6
 - `UPLOAD_ERR_CANT_WRITE`: 7
 - `UPLOAD_ERR_EXTENSION`: 8
 - `UPLOAD_ERR_PARTIAL`: 3
- `$_FILES["file_box_name"]["size"]` : file size in bytes.

move_uploaded_file

(PHP 4 >= 4.0.3, PHP 5, PHP 7, PHP 8)

move_uploaded_file — Moves an uploaded file to a new location

Description

```
move_uploaded_file ( string $from , string $to ) : bool
```

This function checks to ensure that the file designated by **from** is a valid upload file (meaning that it was uploaded via PHP's HTTP POST upload mechanism). If the file is valid, it will be moved to the filename given by **to**.

This sort of check is especially important if there is any chance that anything done with uploaded files could reveal their contents to the user, or even to other users on the same system.

```
if (move_uploaded_file( $tmpfile, "../uploads/{$filename} ) ) {  
    echo "<p>File Uploaded</p>" ;  
}
```