University of Portsmouth
Information Services
Enterprise Architecture Group (EAG)

Versi	Date	Comments	Author
v0.0			Helena Ntavli

FILE UPLOADING WEB SITE

Main Features

This website is to replace to provide a web interface for uploading of files to the
 http://eag-web-01.iso.port.ac.uk/ server. The current directory of this application
is " /upl " .
(or whatever you want to rename it to)

It is built on CodeIgniter (2.1.0), and uploading is handled by Uploadify. (3.1.0)

Overall idea was to make it fully functional , retaining simplicity + neat design
(as possible at least!).

There is a folder within the htdocs 'uploads', and that's where all uploads go.

Code

The main (and only) files used to configure this application:
(the comments on the files are explanatory)

/Application/Config/
- CONFIG.PHP : define the base url, cookies/session parametres, charset,
  encryption key
- DATABASE.PHP : All parametres for database use.
- AUTOLOAD.PHP : select what libraries, helper files you need to load from
  the start (instead of calling them in the code)
- ROUTES.PHP : define what page (view) will be loaded by default from the
  base url.

The custom code is placed accross:
- /Application/Controllers/
- /Application/Views/
- /Application/Models/
- /assets: *images*
- /js: *js code of datatable & uploadify*
- /css: *themes for the datatable can also be placed here*

Models:

1. **User_model** : This simple class checks input with the table data for validation, and is responsible for interacting with the ''users' table.

2. **file_m** : All file related operations that interact with database.

Controllers:

1. **datatable** : all functions related to datatable that interact with file_m

2. **login** : signup/login/logout functions

3. **site** : loads the main & upldr views and has update details functions

Views:

1. /includes / **footer**

2. /includes / **header** :

3. /includes/ **template**

4. /includes / **topbarA**

5. /includes / **topbarB**

6. /logins / **login_form**

7. /logins / **signup_successful**

8. /logins / **signupform**

9. /logins / **update_form**

10. **main**

11. datatable

12. **upldr** : contains Uploadify object, loads datatable view

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(If you rename the directory, change the relevant line in the config file too.)

Database

In order to use a database table to store sessions, the following two lines have to be specified in the config file:
$config['sess_use_database'] = TRUE;
$config['sess_table_name'] = 'ci_sessions';
Codeigniter's library 'session' must be loaded.

file_id	name	owner	size	type	time
66	head2.png	puppy123	296414	.png	2012-06-15 11:06:05
58	20667 249703671786 6140672 n.jpg	puppy123	28954	.jpg	0000-00-00 00:00:00

uid	first_name	last_name	username	password	email
167	happ	happer	happy123	648605c11bdb955e16e7febc8db54103	happy123@info.co.uk

session_id	ip_address	user_agent	last_activity	user_data	lastlogin
4dcd0493c65c79b97189afdc00863cf7	127.0.0.1	Mozilla/5.0 (Windows NT 5.1; rv:11.0) Gecko/201001...	1340283201	a:3:{s:9:"user_data";s:0:"";s:8:"username";s:4:"al...	2012-06-21 13:53:21
e51d7d8101c075bde35ce80e21a1fd39	127.0.0.1	Mozilla/5.0 (Windows NT 5.1; rv:11.0) Gecko/201001...	1340359364	a:3:{s:9:"user_data";s:0:"";s:8:"username";s:4:"al...	2012-06-22 11:03:18

Session expires after 3600 secs = 1h

--
-- Table structure for table `ci_sessions`
--

```
CREATE TABLE IF NOT EXISTS `ci_sessions` (
  `session_id` varchar(40) NOT NULL DEFAULT '0',
  `ip_address` varchar(16) NOT NULL DEFAULT '0',
  `user_agent` varchar(120) NOT NULL,
  `last_activity` int(10) NOT NULL,
  `user_data` text NOT NULL,
  `lastlogin` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP,
  PRIMARY KEY (`session_id`),
  KEY `last_activity_idx` (`last_activity`)
) ENGINE=MyISAM DEFAULT CHARSET=utf8;
```

```
--
--
-- Table structure for table `files`
--

CREATE TABLE IF NOT EXISTS `files` (
  `file_id` int(10) unsigned NOT NULL AUTO_INCREMENT,
  `name` varchar(255) COLLATE latin1_general_ci NOT NULL,
  `owner` varchar(25) COLLATE latin1_general_ci NOT NULL,
  `size` double NOT NULL,
  `type` char(5) COLLATE latin1_general_ci NOT NULL,
  `time` timestamp NOT NULL DEFAULT CURRENT_TIMESTAMP ON UPDATE
CURRENT_TIMESTAMP,
  PRIMARY KEY (`file_id`)
) ENGINE=MyISAM ; DEFAULT CHARSET=latin1 COLLATE=latin1_general_ci;


--
-- Table structure for table `users`
--

CREATE TABLE IF NOT EXISTS `users` (
  `uid` int(11) NOT NULL AUTO_INCREMENT,
  `first_name` varchar(25) NOT NULL,
  `last_name` varchar(25) NOT NULL,
  `username` varchar(25) NOT NULL,
  `password` varchar(32) NOT NULL,
  `email` varchar(50) NOT NULL,
  PRIMARY KEY (`uid`),
  UNIQUE KEY `username` (`username`)
) ENGINE=MyISAM  DEFAULT CHARSET=utf8 ;
```

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Uploadify

Full list of options, methods & events:
http://www.uploadify.com/documentation/

Posts JSON data to the controller function 'add', which passes on to the database:

```
'onUploadComplete': function(file) {

$.post("<?php echo base_url();?>index.php/dtbl/add", { name: file.name, size:
file.size, type: file.type });

}
```

You can use the 'fileTypeExts' to disallow other types from being added to the queue.
```
'fileTypeDesc':'csv',
'fileTypeExts':'*.csv',
```

In uploadify.php , the types can be specified in an array, so even if the above option is off, they will not be uploaded in the backend. (and probably be discarded as tmp)

This gets result from backend:
```
'onUploadSuccess' : function(file, data, response) {
            alert(data);
}
```

There is no size limit for each file, currently;
I've added a queue limit of 20 for practical reasons.

Datatables (jQuery plugin)

http://encosia.com/3-reasons-why-you-should-let-google-host-jquery-for-you/

Advantage: Despite having a static table to display everyone 's files, Pagination, Sorting, and Search with Ajax would make it easier to sort-search-and delete the items.

Everytime the delete function is called, it just deletes it. What is in the db is in teh folder. But if a file is deleted manuallyon the backend, then the record still remains. There is the function that counts the directory items, (in datatable.php view), but still there is no synchronisation so the page needs to be refreshed to get new results.

For explanation on how the datatable works, read this nice tutorial:
http://www.ifadey.com/2010/06/crud-using-jquery-and-codeigniter/

Styling

The basic styleSheet is style.css and then the styles.css (for the registration form). If someone perhaps has another colour preference and purplish falls hard, everything can be –quite easily- changed there. (I just happened to love purple and it seemed quite matching with university trend.)

The datatables can also be themed. (datatables.php and themes are on /css.)

Issues

- 'last_activity' in 'ci_sessions' tbl format is a unix epoch time format, should be made readable. To convert it on the fly from the commandline, use **select from_unixtime(1330943471);**

So i just added an extra timestamp at the end.

- When you delete a file from the table, the page needs to be refreshed to be updated. (sorry, i couldn't fix it)

Possible Enhancements / Improvements

- If other types of files are ever going to be used (e.g. pictures), there could be a simple gallery for better viewing

- There could be some 'housekeeping' for the ci_sessions & files table, e.g. a php file running from crontab that will optimize a table. (if applicable though, as it's not always recommended) [http://dev.mysql.com/doc/refman/5.5/en/optimize-table.html]

- Because it's using an swf it's not incredibly fast and lightweight,or the best option. Plan was to use html5, but stuck to this because of easy implementation and customisation.
- Improve sessions

- The messy css files can be improved. (probably with Sass)

Little hints (just in case)
- Referencing a model is case-sensitive for the class. Loading it, is case-sensitive for its filename.
- In case any weird problems like, disappearing components related to jquery, make sure that jquery-over-google is uptodate. Make sure everything is uptodate.