

Online File Management System

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What is File Management System?

File Management System is basically a software that manages data files.

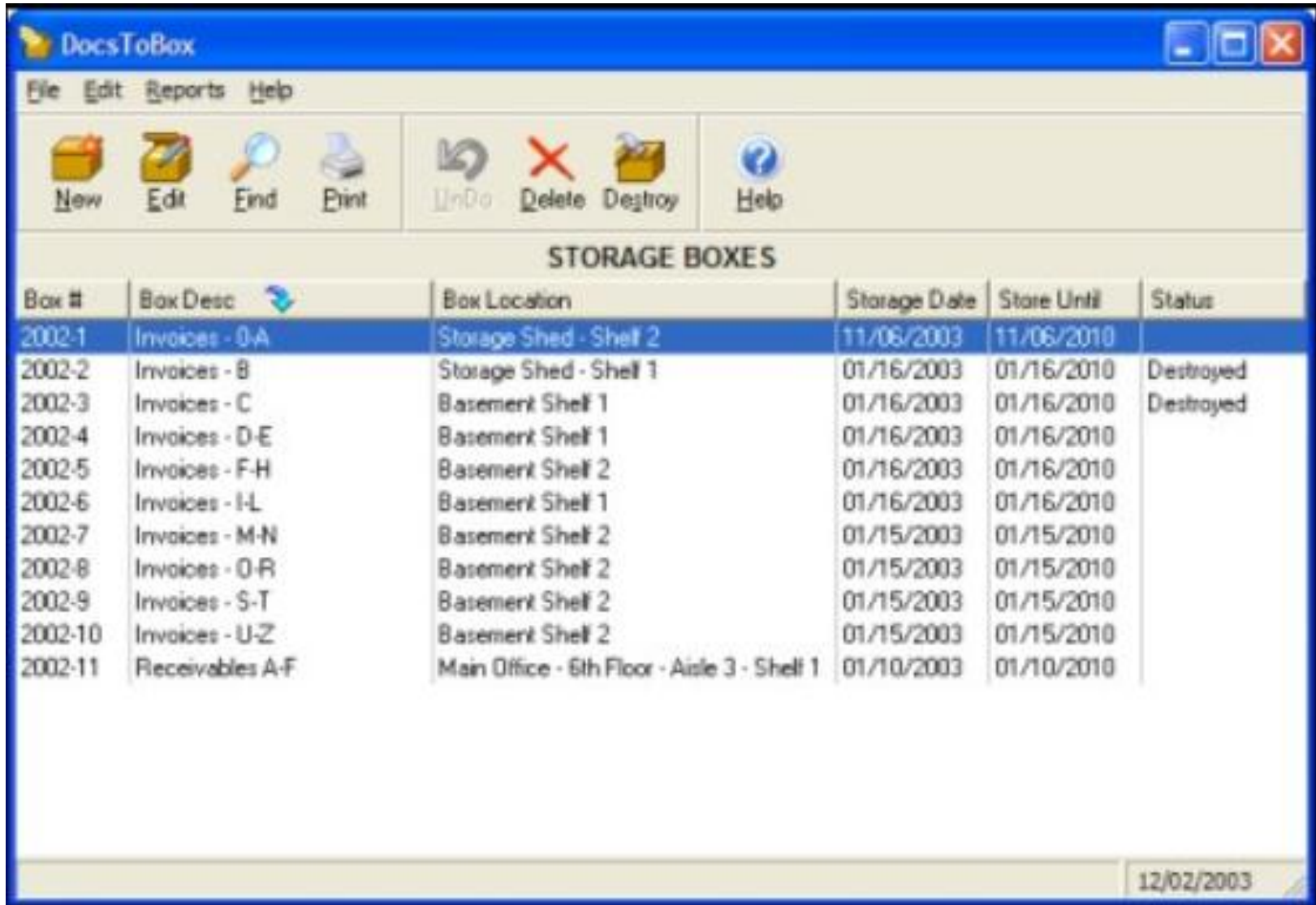
It provide the ability to add, delete and modify users' access levels.

Users can view, upload, list, delete, download files.

File Management System Examples:



File Management System Examples:



The screenshot shows the DocsToBox application window. The title bar is blue with the text "DocsToBox" and standard window controls. The menu bar includes "File", "Edit", "Reports", and "Help". The toolbar contains icons for "New" (box), "Edit" (box with pencil), "Find" (magnifying glass), "Print" (printer), "Undo" (curved arrow), "Delete" (red X), "Destroy" (box with red X), and "Help" (question mark). Below the toolbar is a section titled "STORAGE BOXES" containing a table with 6 columns: "Box #", "Box Desc", "Box Location", "Storage Date", "Store Until", and "Status". The table lists 11 storage boxes. The first box is highlighted in blue. The status of boxes 2 through 10 is "Destroyed". The status of box 11 is blank. The bottom right corner of the window shows the date "12/02/2003".

Box #	Box Desc	Box Location	Storage Date	Store Until	Status
2002-1	Invoices - 0-A	Storage Shed - Shelf 2	11/06/2003	11/06/2010	
2002-2	Invoices - B	Storage Shed - Shelf 1	01/16/2003	01/16/2010	Destroyed
2002-3	Invoices - C	Basement Shelf 1	01/16/2003	01/16/2010	Destroyed
2002-4	Invoices - D-E	Basement Shelf 1	01/16/2003	01/16/2010	
2002-5	Invoices - F-H	Basement Shelf 2	01/16/2003	01/16/2010	
2002-6	Invoices - I-L	Basement Shelf 1	01/16/2003	01/16/2010	
2002-7	Invoices - M-N	Basement Shelf 2	01/15/2003	01/15/2010	
2002-8	Invoices - O-R	Basement Shelf 2	01/15/2003	01/15/2010	
2002-9	Invoices - S-T	Basement Shelf 2	01/15/2003	01/15/2010	
2002-10	Invoices - U-Z	Basement Shelf 2	01/15/2003	01/15/2010	
2002-11	Receivables A-F	Main Office - 6th Floor - Aisle 3 - Shelf 1	01/10/2003	01/10/2010	

12/02/2003

Purpose Of The System

The user has a choice of English or French language.

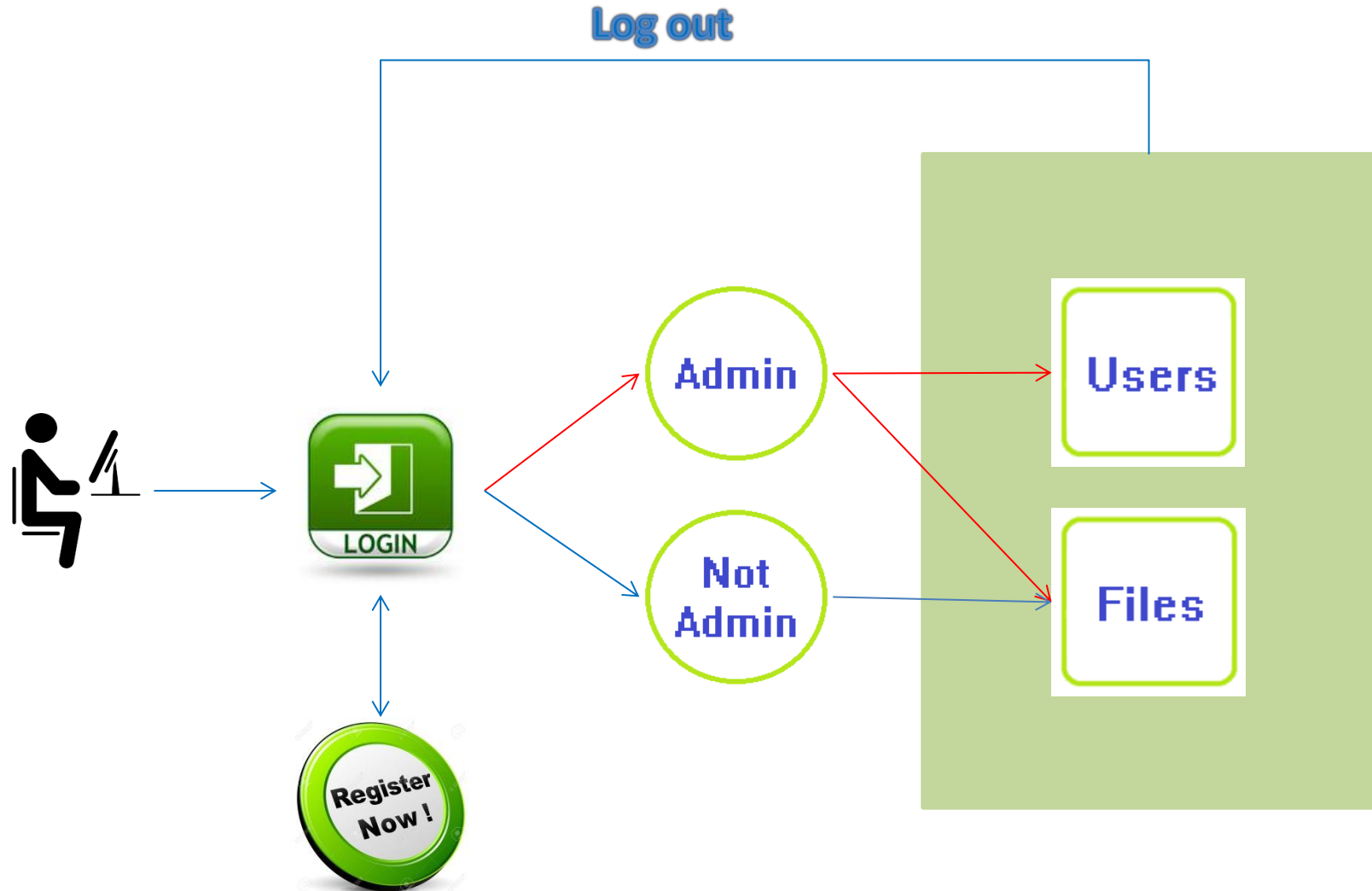
Regular (non-admin) user can:

- Upload, rename, delete, list and download files
- Print Reports

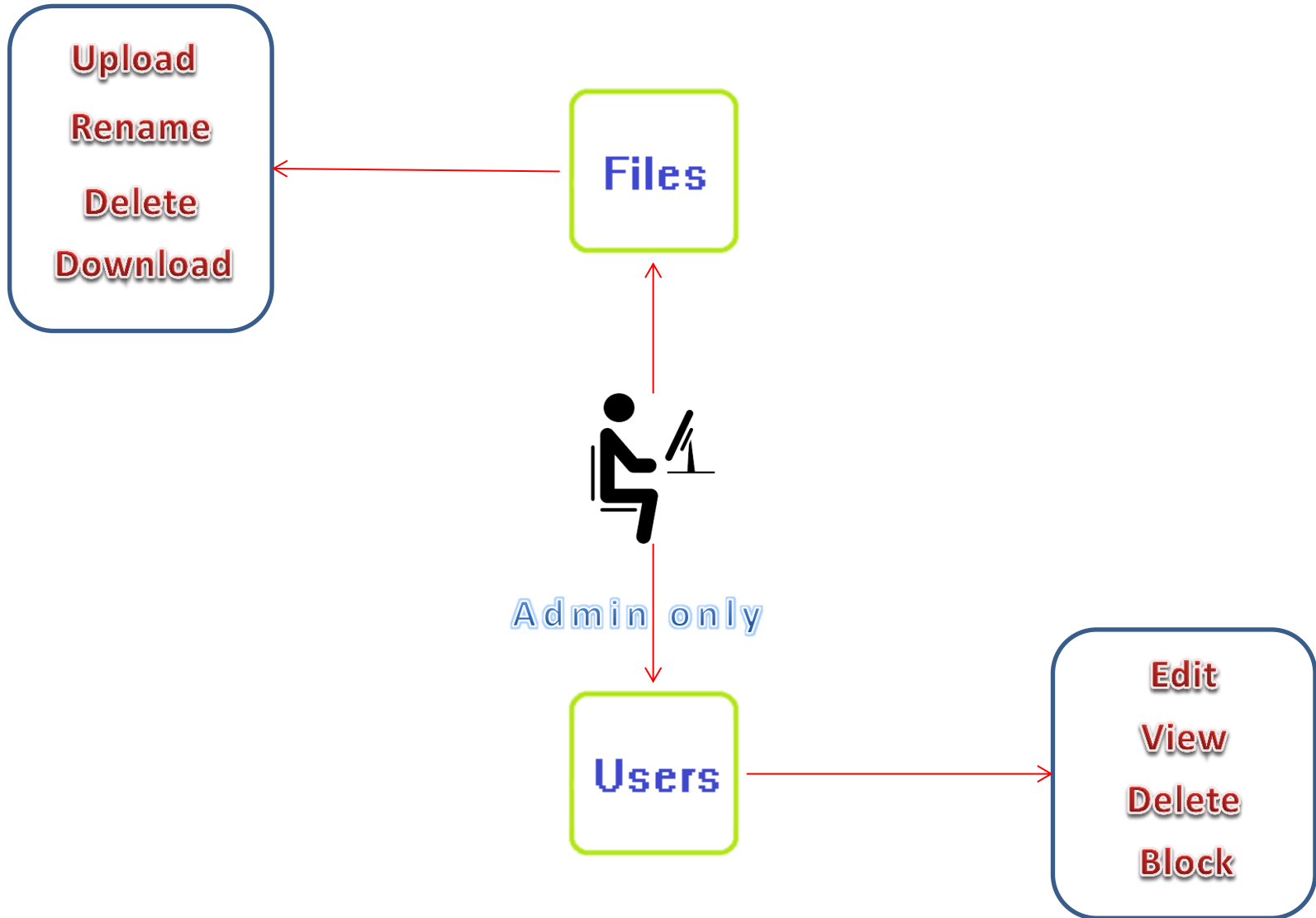
Admin user manages other users:

- Add, view, delete and block users
- Change other users' access level
- Monitor other users' activities

Solution Overview



Solution Overview



Solution Overview

The code we will develop include some URLs.
The list is shown below:

- /login
- /register
- /passwordreset
- /logout

```
graph TD; A["The code we will develop include some URLs.  
The list is shown below:  
• /login  
• /register  
• /passwordreset  
• /logout"] --> B["No-admin User  
• /upload  
• /list  
• /download/:fileid  
• /delete/:fileid  
• /rename/:fileid"]; A --> C["Admin  
• /admin/list  
• /admin/edit/:userid  
• /admin/delete/:userid  
• /admin/block/:userid  
• /admin/view/:userid"];
```

No-admin User

- /upload
- /list
- /download/:fileid
- /delete/:fileid
- /rename/:fileid

Admin

- /admin/list
- /admin/edit/:userid
- /admin/delete/:userid
- /admin/block/:userid
- /admin/view/:userid

Challenges and Solutions

Slim lets you assign **conditions** to **route** parameters.

```
\Slim\Route::setDefaultConditions(array(  
    'lang' => '(en|fr)'  
));
```

```
$app->get('/:lang)/', function($lang = 'en')  
use ($app) {  
    $app->render($lang . '/register.html.twig');  
});
```

Challenges and Solutions

```
<button type="submit" class="btn">Sign  
in!</button>
```

(Login button not working)

```
<input type="submit" class="btn" style="height: 50px;  
width: 505px; margin: auto; font-size: 20px;  
background-color: lightskyblue" value="Sign  
in!"></input>
```

Challenges and Solutions

5 **isAdmin** enum('yes', 'no') utf8_general_ci

```
$app->get('/admin/edit/:id', function($userId) use ($app) {  
    if ((!$_SESSION['user']) || ($_SESSION['user']['isAdmin'] != 'yes')) {  
        $app->render('forbidden.html.twig');  
        return;  
    }  
    $user = DB::queryFirstRow("SELECT * FROM users WHERE id=%i", $userId);  
    $app->render('admin_edit.html.twig', array('user' => $user));  
});
```

*** Admin Only ***

User edit

User List File List

Change to Admin? ☐

Change

```
$app->post('/admin/edit/:id', function($userId) use ($app) {  
    $isAdmin = $app->request()->post('isAdmin') ? 'yes' : 'no';  
    $userList = array('isAdmin' => $isAdmin);  
    DB::update('users', $userList, "id = %i", $userId);  
});
```

Forbidden Operation.

[Click to list](#) or you will be redirected in 5 seconds.

Challenges and Solutions

☐ 6 **isActive** enum('yes', 'no') utf8_general_ci

```
$app->get('/admin/block/:id', function($userId) use ($app) {  
    if (!$_SESSION['user']) || ($_SESSION['user']['isAdmin'] != 'yes') {  
        $app->render('forbidden.html.twig');  
        return;  
    }  
    $user = DB::queryFirstRow("SELECT * FROM users WHERE id=%i", $userId);  
    $app->render('admin_block.html.twig', array('user' => $user));  
});
```

***** Admin Only *****

User block

User List File List

Change to Block? ☐

Change

```
$app->post('/admin/block/:id', function($userId) use ($app) {  
    $isActive = $app->request()->post('isActive') ? 'no' : 'yes';  
    $userList = array('isActive' => $isActive);  
  
    DB::update('users', $userList, "id = %i", $userId);  
});
```

Your account is block.

[Click to login](#) or you will be redirected in 5 seconds.

Challenges and Solutions

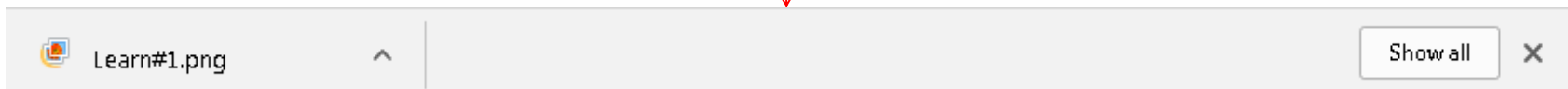
"simotod/slim-download": "dev-master"

```
$app->get('/download/:id', function($fileId) use ($app) {  
    if (!$_SESSION['user'] && ($_SESSION['user']['isAdmin'] != "yes")) {  
        $app->render('forbidden.html.twig');  
        return;  
    }  
    $fileList = DB::queryFirstRow  
        ("SELECT * FROM files WHERE id=%i", $fileId);  
    $app->render('download.html.twig', array(  
        'u' => $_SESSION['user'],  
        'f' => $fileList  
    ));  
});
```

Download

File List

File Name:



What we learned

```
$app->get('/admin/view', function() use ($app) {  
    if (($_SESSION['user']['isAdmin'] != 'yes')) {  
        $app->render('forbidden.html.twig');  
        return;  
    }  
    $app->render('admin_view.html.twig');  
});
```

```
$app->post('/admin/view', function() use ($app) {  
    $userId = $app->request()->post('userId');  
    $fileList = DB::query("SELECT *  
        FROM files WHERE userId=%i", $userId);  
    $app->render('filelist.html.twig', array(  
        'u' => $_SESSION['user'],  
        'fileList' => $fileList  
    ));  
});
```

*** Admin Only ***

View user file

User List File List

Choose an userId:

Choose

Welcome, wei

MY WORKSPACE

WORKGROUPS

View User

User Id	User Name
1	wei
2	joan

Welcome, wei

MY WORKSPACE

WORKGROUPS

CRM

COMPANY

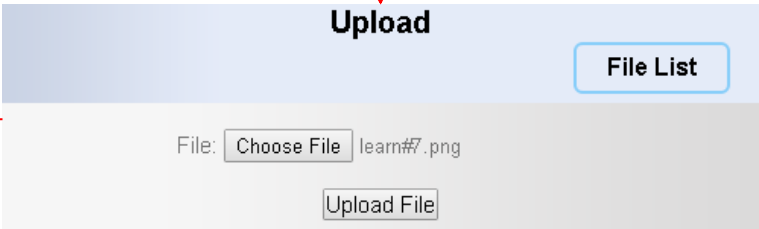
Upload

File Id	User Id	File Name
49	2	learn#6.png
50	2	learn#9.png
51	2	Learn#1.png

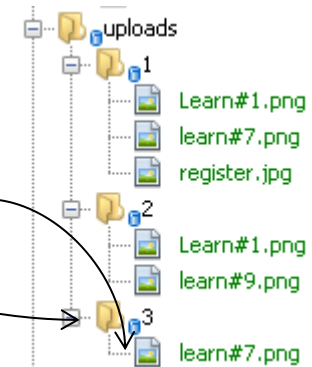
File Id	User Id	File Name
---------	---------	-----------

What we learned

```
$app->get('/upload', function() use ($app) {  
    if (!$_SESSION['user'] && ($_SESSION['user']['isAdmin'] != "yes")) {  
        $app->render('forbidden.html.twig');  
        return;  
    }  
    $app->render('upload.html.twig', array("u" => $_SESSION['user']));  
});
```



```
$app->post('/upload', function() use ($app) {  
    $file = isset($_FILES['filename']) ? $_FILES['filename'] : array();  
    $target_dir = "uploads/" . $_SESSION['user']['id'] . "/";  
    if (!file_exists($target_dir)) {  
        mkdir($target_dir, 0777, true);  
    }  
    $target_file = $target_dir . $_FILES["filename"]["name"];  
    move_uploaded_file($_FILES["filename"]["tmp_name"], $target_file);  
    DB::insert('files', array(...));  
});
```



Future Work

Installation

With Composer

```
1 | composer require plasticbrain/php-flash-messages
```

Without Composer

Download [FlashMessages.php](#) and save it to your project directory.

Import the file:

```
1 | require '/path/to/FlashMessages.php';
```

Message Types

There are currently four different message types:

[information](#), [success](#), [warning](#), and [error](#).

Normal message.



Info message.



Success message.



Warning message.



Error message.

Summary

Online File Management System uses the following:

Technologies:

- Bootstrap
- Multiple Languages
- JQuery

Libraries:

- Twig
- Slim/Slim and Slim/Views
- Simotod/Slim-download