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Documentation

A detailed description of every function and file used in the web application.

GALLERY

A simple, file-based photo gallery

Table of Contents

[File Structure 2](#_Toc522887566)

[PHP Classes 3](#_Toc522887567)

[Album 3](#_Toc522887568)

[Variables 3](#_Toc522887569)

[Properties 3](#_Toc522887570)

[Methods 4](#_Toc522887571)

[Gallery 4](#_Toc522887572)

[Variables 4](#_Toc522887573)

[Properties 4](#_Toc522887574)

[Methods 5](#_Toc522887575)

[Image 5](#_Toc522887576)

[Variables 5](#_Toc522887577)

[Properties 5](#_Toc522887578)

[Methods 5](#_Toc522887579)

[PHP Functions 5](#_Toc522887580)

[Overview 5](#_Toc522887581)

[Details 6](#_Toc522887582)

[PHP Scripts 6](#_Toc522887583)

[JS Functions 7](#_Toc522887584)

[Overview 7](#_Toc522887585)

[Details 7](#_Toc522887586)

[JS Scripts 8](#_Toc522887587)

[CSS 8](#_Toc522887588)

[Files 8](#_Toc522887589)

# File Structure

* abums
  + (albums)
    - images
      * emptyalbum.emp
    - thumbnails
      * emptyalbum.emp
    - GetImages.inc.php
    - index.php
    - properties.bin
    - temp.info
  + albums.ini
  + index.php
  + temp.info
* css
  + albums.css
  + flex.css
  + images.css
  + main.css
* img
  + forest.jpg
* js
  + albums.js
  + check.js
  + fileUpload.js
  + initComponents.js
  + loader.js
  + login.js
  + main.js
  + modals.js
* php
  + deletealbum
    - index.php
  + download
    - index.php
  + login
    - data.json
    - index.php
  + newalbum
    - index.php
  + .htaccess
  + Album.class.php
  + CheckAlbumNames.inc.php
  + CheckLogin.inc.php
  + CheckSetup.inc.php
  + DeleteImage.inc.php
  + Gallery.class.php
  + GetAlbumData.inc.php
  + GetAlbumInfo.inc.php
  + GetAlbums.inc.php
  + GetImageInfo.inc.php
  + GetImages.inc.php
  + Image.class.php
  + IsLoggedIn.inc.php
  + Logout.inc.php
  + Setup.inc.php
  + Thumbnail.inc.php
  + Upload.inc.php
* setup
  + setup.bin
* ven
  + jquery
    - jquery-3.3.1.min.js
  + uikit
    - css
      * uikit.css
      * uikit-rtl.css
    - js
      * uikit.js
      * uikit-icons.js
* index.php
* README.md

# PHP Classes

## Album

### Variables

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Visibility | Description |
| name | string | private | name of the album |
| path | string | private | path name of the album |
| thumbnail | string | private | thumbnail name |
| files | array(string) | private | all files in image folder |
| images | array(object) | private | image objects |
| errorMessage | string | private | error Message |
| validExtensions | array | private | all valid extensions |

### Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Destination | Visibility |
| getName() | string | name | public |
| setName() | string | name | public |
| getPath() | string | path | public |
| setPath() | string | path | public |
| getThumbnail() | string | thumbnail | public |
| setThumbnail() | string | thumbnail | public |
| getFiles() | array | files | public |
| getImages() | array | images | public |
| getErrorMessage() | string | errorMessage | public |
| setErrorMessage() | string | errorMessage | public |

### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Parameters | Return | Visibility | Description |
| \_\_construct() | array files (optional) | none | public | initializes the class and adds all files if given |
| getImagesOfAlbum() | none | int | private | ddds all images of files in an array |
| DisplayImages() | none | none | public | displays the images as HTML |
| LoadAlbum() | string data | object | public | unserializes a album object bin file |
| SaveAlbum() | none | bool | public | serializes the album object |
| CreateNewAlbum() | string albumPath | bool | public | creates folders and necessary files for a new album |
| checkImageArray() | none | int | private | checks how many images are in a folder |
| getFileExtension() | string file | string | private | gets the file extension of a file |
| getFileName() | string file | string | private | gets filename of a file |
| isFile() | string file | bool | private | checks if file is a file |
| getLastModifiedImage() | none | string | private | sorts images by date and returns the latest or empty image |

## Gallery

### Variables

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Visibility | Description |
| name | string | private | name of the gallery |
| albums | array(object) | private | album objects of gallery |
| albumArray | array(string) | private | album names as string |

### Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Destination | Visibility |
| getName() | string | name | public |
| setName() | string | name | public |
| getAlbums() | array(object) | albums | public |

### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Parameters | Return | Visibility | Description |
| \_\_construct() | string name, array(string) albumArray | none | public | initializes the gallery and prepares the albums |
| DisplayAlbums() | none | none | public | displays all alums of the gallery as HTML |
| prepareAlbums() | none | none | private | loads all album property files |

## Image

### Variables

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Visibility | Description |
| name | string | private | name of the image |
| type | string | private | image type |
| filename | string | private | filename |

### Properties

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Type | Destination | Visibility |
| getName() | string | name | public |
| setName() | string | name | public |
| getType() | string | type | public |
| setType() | string | type | public |
| getFileName() | string | filename | public |
| setFileName() | string | filename | public |

### Methods

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Parameters | Return | Visibility | Description |
| \_\_construct() | string name, string type, string filename | none | public | initializes all images and creates thumbnails |

# PHP Functions

## Overview

|  |  |
| --- | --- |
| Name | File |
| getImagesOfAlbum() | Album.class.php |
| DisplayImages() | Album.class.php |
| LoadAlbum() | Album.class.php |
| SaveAlbum() | Album.class.php |
| CreateNewAlbum() | Album.class.php |
| checkImageArray() | Album.class.php |
| getFileExtension() | Album.class.php |
| getFileName() | Album.class.php |
| isFile() | Album.class.php |
| getLastModifiedImage() | Album.class.php |
| DisplayAlbums() | Gallery.class.php |
| prepareAlbums() | Gallery.class.php |
| InitAlbum() | GetAlbumData.inc.php |
| MakeThumbnail() | Thumbnail.inc.php |
| memoryErrorHandler() | Thumbnail.inc.php |
| reArrayFiles() | Upload.inc.php |
| setInfo() | Upload.inc.php |

## Details

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Parameters | Return | Visibility | Description |
| InitAlbum() | none | object | public | returns the unserialized album object |
| MakeThumbnail() | string src, string dest, int desired\_width | none | public | creates a thumbnail for the src image to make the web app load faster |
| memoryErrorHandler() | int errno, string errstr | none | public | error handler |
| reArrayFiles() | array(file) | none | public | resorts the php FILE array |
| setInfo() | string album | none | public | saves upload status in a file |
| rrmdir() | string dir | none | public | removes directory recursive |

# PHP Scripts

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Parameters | Parameter Type | Description |
| CheckAlbumNames.inc.php | string n | POST | Checks if album name is already used |
| CheckLogin.inc.php | string user, string passwd | POST | Checks if login is correct and sets session variables |
| CheckSetup.inc.php | none | none | Checks if setup is already completed |
| DeleteImage.inc.php | string delname, string album | POST | Deletes the given image |
| GetAlbumInfo.inc.php | none | none | Checks if albums changed |
| GetAlbums.inc.php | none | none | Displays the albums in gallery |
| GetImageInfo.inc.php | string album | POST | Checks if images have changed |
| GetImage.inc.php | none | none | Displays the images of an album |
| IsLoggedIn.inc.php | none | none | Checks if session is set |
| Logout.inc.php | none | none | destroys the session |
| Setup.inc.php | string username,  string password | POST | sets new username and password to gallery |
| Upload.inc.php | string a | GET | uploads new images |
| deletealbum | string a | GET | deletes an album and its contents |
| download | string file, string album | GET | downloads an image |
| newalbum | string txtAlbumName | POST | creates a new album |

# JS Functions

## Overview

|  |  |
| --- | --- |
| Name | File |
| FireNotification() | albums.js |
| CheckNewAlbum() | check.js |
| CheckLogin() | check.js |
| DoSetup() | check.js |
| ValidAlbumCharacters() | check.js |
| ValidUsernameCharacters() | check.js |
| PasswordMatch() | check.js |
| IsFieldEmpty() | check.js |
| IsAlbumNameUsed() | check.js |
| InitComponents() | initComponents.js |
| InitIconLinks() | initComponents.js |
| LoadImages() | loader.js |
| LoadAlbums() | loader.js |
| Setup() | loader.js |
| Logout() | login.js |
| OpenDeleteModal() | modals.js |
| DeleteImage() | modals.js |
| getCaption() | modals.js |
| FireNotification() | modals.js |

## Details

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Parameters | Return | Description |
| FireNotification() | array info | none | fires a UIKit notification |
| CheckNewAlbum() | none | bool | checks the validity of the album name |
| CheckLogin() | none | bool | checks login fields |
| DoSetup() | none | bool | checks setup fields and sets new password |
| ValidAlbumCharacters() | string name | bool | checks album characters |
| ValidUsernameCharacters() | string name | bool | checks username characters |
| PasswordMatch() | string pw1, string pw2 | bool | checks if passwords match |
| IsFieldEmpty() | string str | bool | checks if field is empty |
| IsAlbumNameUsed() | none | bool | checks if album name is used |
| InitComponents() | none | none | modifies uikit component lightbox |
| InitIconLinks() | string code | none | changes the links of lightbox |
| LoadImages() | none | none | loads images of an album |
| LoadAlbums() | none | none | loads albums of gallery |
| Setup() | none | none | opens modal if setup is not completed |
| Logout() | string dir | none | logs out the user |
| OpenDeleteModal() | string name | none | opens the delete modal for an image |
| DeleteImage() | string file | none | sends delete request to php |
| getCaption() | none | string | returns the current caption of a lightbox |

# JS Scripts

|  |  |
| --- | --- |
| Name | Description |
| document.ready (albums.js) | requests notification request and fires notification on request |
| document.ready (fileUpload.js) | uploads a file to php |
| window.onload (login.js) | sets the views for login/logout |
| window.onload (main.js) | for loading screen |
| document.ready (modals.js) | requests notification request and fires notification on request |

# CSS

|  |  |
| --- | --- |
| Name | Description |
| albums.css | css for home (gallery) |
| flex.css | css for google search look a like album |
| images.css | css for albums |
| main.css | main css |

# Files

|  |  |
| --- | --- |
| Name | Description |
| albums.ini | contains all created albums (paths) |
| temp.info | content for notifications |
| properties.bin | content for current album serialized |
| emptyalbum.emp | picture used if album is empty |
| data.json | login data |
| setup.bin | setup control file |