



# GALLERY

A simple, file-based photo gallery

[Documentation](#)

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

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## 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
<b>name</b>	string	private	name of the album
<b>path</b>	string	private	path name of the album
<b>thumbnail</b>	string	private	thumbnail name
<b>files</b>	array(string)	private	all files in image folder
<b>images</b>	array(object)	private	image objects
<b>errorMessage</b>	string	private	error Message
<b>validExtensions</b>	array	private	all valid extensions

#### Properties

Name	Type	Destination	Visibility
<b>getName()</b>	string	name	public
<b>setName()</b>	string	name	public
<b>getPath()</b>	string	path	public
<b>setPath()</b>	string	path	public
<b>getThumbnail()</b>	string	thumbnail	public
<b>setThumbnail()</b>	string	thumbnail	public
<b>getFiles()</b>	array	files	public
<b>getImages()</b>	array	images	public
<b>getErrorMessage()</b>	string	errorMessage	public

<b>setErrorMessage()</b>	string	errorMessage	public
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## Methods

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

## Gallery

### Variables

Name	Type	Visibility	Description
<b>name</b>	string	private	name of the gallery
<b>albums</b>	array(object)	private	album objects of gallery
<b>albumArray</b>	array(string)	private	album names as string

### Properties

Name	Type	Destination	Visibility
<b>getName()</b>	string	name	public
<b>setName()</b>	string	name	public
<b>getAlbums()</b>	array(object)	albums	public

## Methods

Name	Parameters	Return	Visibility	Description
<b>__construct()</b>	string name, array(string) albumArray	none	public	initializes the gallery and prepares the albums
<b>DisplayAlbums()</b>	none	none	public	displays all albums of the gallery as HTML
<b>prepareAlbums()</b>	none	none	private	loads all album property files

## Image

### Variables

Name	Type	Visibility	Description
<b>name</b>	string	private	name of the image
<b>type</b>	string	private	image type
<b>filename</b>	string	private	filename

### Properties

Name	Type	Destination	Visibility
<b>getName()</b>	string	name	public
<b>setName()</b>	string	name	public
<b>getType()</b>	string	type	public
<b>setType()</b>	string	type	public
<b>getFileName()</b>	string	filename	public
<b>setFileName()</b>	string	filename	public

## Methods

Name	Parameters	Return	Visibility	Description
<b>__construct()</b>	string name, string type, string filename	none	public	initializes all images and creates thumbnails

## PHP Functions

### Overview

Name	File
<b>getImagesOfAlbum()</b>	Album.class.php
<b>DisplayImages()</b>	Album.class.php
<b>LoadAlbum()</b>	Album.class.php
<b>SaveAlbum()</b>	Album.class.php
<b>CreateNewAlbum()</b>	Album.class.php
<b>checkImageArray()</b>	Album.class.php
<b>getFileExtension()</b>	Album.class.php
<b>getFileName()</b>	Album.class.php
<b>isFile()</b>	Album.class.php
<b>getLastModifiedImage()</b>	Album.class.php
<b>DisplayAlbums()</b>	Gallery.class.php

<b>prepareAlbums()</b>	Gallery.class.php
<b>InitAlbum()</b>	GetAlbumData.inc.php
<b>MakeThumbnail()</b>	Thumbnail.inc.php
<b>memoryErrorHandler()</b>	Thumbnail.inc.php
<b>reArrayFiles()</b>	Upload.inc.php
<b>setInfo()</b>	Upload.inc.php

## Details

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

## PHP Scripts

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

<b>deletealbum</b>	string a	GET	deletes an album and its contents
<b>download</b>	string file, string album	GET	downloads an image
<b>newalbum</b>	string txtAlbumName	POST	creates a new album

## JS Functions

### Overview

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

### Details

Name	Parameters	Return	Description
<b>FireNotification()</b>	array info	none	fires a UIKit notification
<b>CheckNewAlbum()</b>	none	bool	checks the validity of the album name
<b>CheckLogin()</b>	none	bool	checks login fields
<b>DoSetup()</b>	none	bool	checks setup fields and sets new password
<b>ValidAlbumCharacters()</b>	string name	bool	checks album characters
<b>ValidUsernameCharacters()</b>	string name	bool	checks username characters
<b>PasswordMatch()</b>	string pw1, string pw2	bool	checks if passwords match
<b>IsFieldEmpty()</b>	string str	bool	checks if field is empty
<b>IsAlbumNameUsed()</b>	none	bool	checks if album name is used
<b>InitComponents()</b>	none	none	modifies uikit component lightbox
<b>InitIconLinks()</b>	string code	none	changes the links of lightbox
<b>LoadImages()</b>	none	none	loads images of an album
<b>LoadAlbums()</b>	none	none	loads albums of gallery



<b>Setup()</b>	none	none	opens modal if setup is not completed
<b>Logout()</b>	string dir	none	logs out the user
<b>OpenDeleteModal()</b>	string name	none	opens the delete modal for an image
<b>DeleteImage()</b>	string file	none	sends delete request to php
<b>getCaption()</b>	none	string	returns the current caption of a lightbox

## JS Scripts

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

## CSS

Name	Description
<b>albums.css</b>	css for home (gallery)
<b>flex.css</b>	css for google search look a like album
<b>images.css</b>	css for albums
<b>main.css</b>	main css

## Files

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