



RASTERSHARE TECHNICAL MANUAL



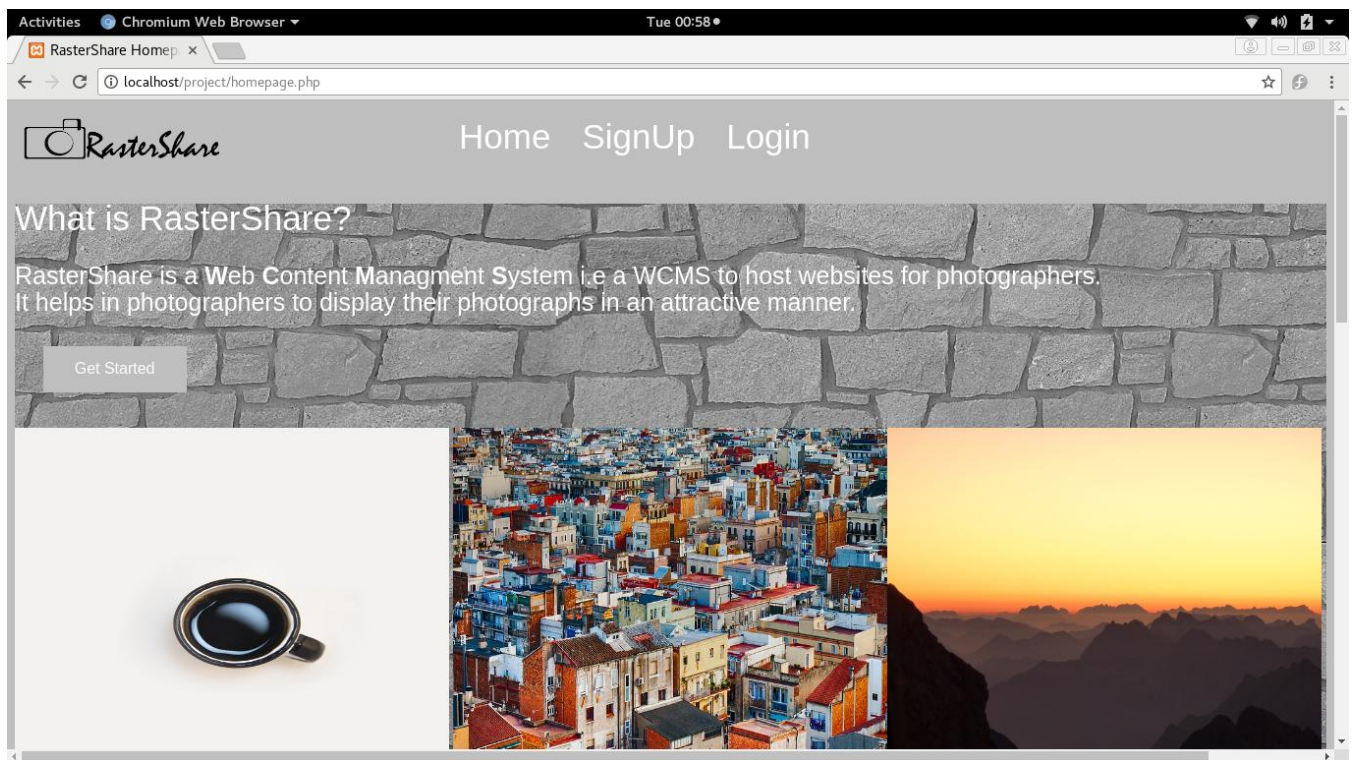
By: Kshithij Iyer

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What is RasterShare?

RasterShare is an open-source web content management System which is used by the photographers to host their website and blogs. It is a purpose-built, lightweight web content management system. RasterShare is built completely using PHP, HTML, CSS, and JQuery. The main feature of RasterShare is ease of use, hassle-free management of photography blogs and websites. RasterShare is built and distributed under Apache License 2.0.



Basic System Requirements

Hardware Requirements (Minimal)

Processor	Intel Core i3-3120M
RAM	8GB
Storage	50MB for installation + Storage to store images
Motherboard	LENOVOEmerald Lake 2
NIC	Broadcom 802.11n Network Adapter

Software Requirements

OS	Fedora 26 or higher or equivalent
Xampp	7.16.0 or higher
PHP	7.1.6 or higher
Mairadb	10.1.24 or higher
phpMyAdmin	4.7.4 or higher
Apache	2.4.27 or higher
ProFTPD	1.3.4c or higher
SQLite	2.8.17/3.7.17

Installation

- After installing a suitable version of XAMPP on your system which satisfies the specified hardware requirements. Create a new MySQL user and create a databases and grant all access the new user.
- Unzip the zip file in your document root folder.
- Now in the db_connection.php file change the parameter as per the ones configured as shown below:

```
#The host name of the database.  
$host="localhost";  
#The username of the database.  
$username="uname";  
#The password of the database.  
$password="secret ";  
#The database name.  
$db_name="rastershare";  
#The prefix to be added in front of the table.  
$table_prefix="rs_";  
#The salt to be added to the password.  
$nacl="love the way you lie";  
#The default username for admin.  
$default_admin="rasteradmin";
```

- Now call the install.php script by opening the URL /RasterShare/setup/install.php in your browser. And not the password for the admin.
- To populate the tables created in the database. Run the cam_add.php and phones_add.php by going to their

corresponding URL through the browser. You can add more entries by adding more names to cams.txt and phones.txt.

- Now delete the setup folder by executing the following commands:

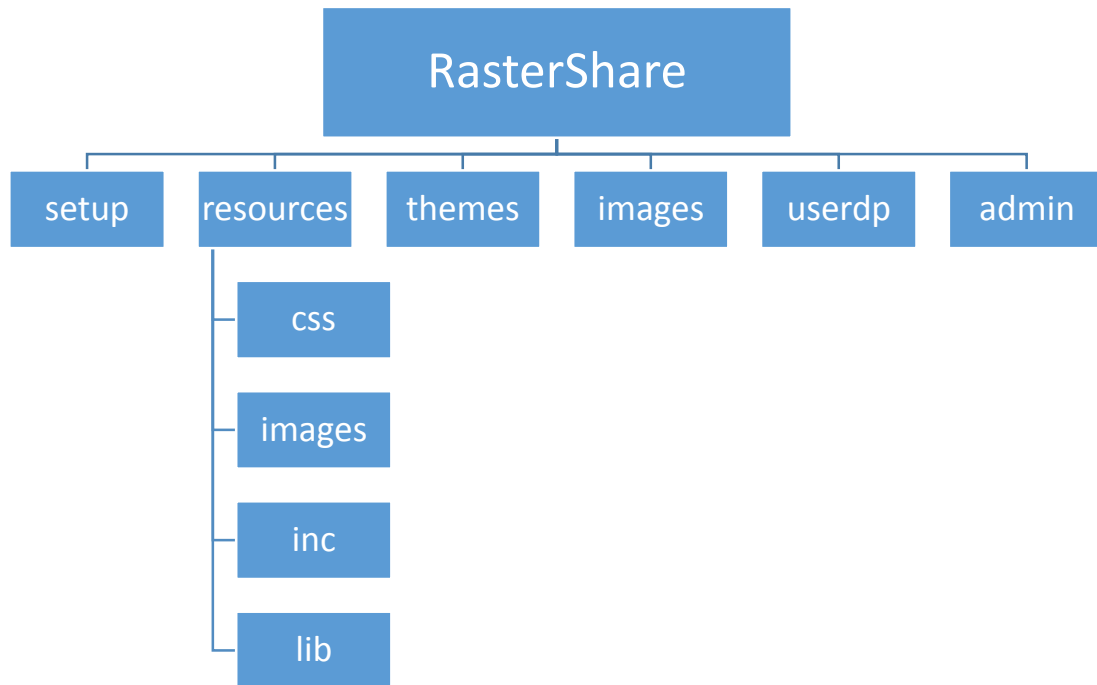
```
rm -rf *  
cd ..  
rmdir setup/
```

- Set the permissions for userdp and images folder by executing the following command:

```
Chmod 777 userdp  
Chmod 777 images
```

- Now open the URL `hostname/RasterShare/` to see if everything is working properly or not.

File System Structure:



Folder	Description
/resources	It has all the files which are needed for the website to run like the header file, footer, CSS, JQuery,etc.
/setup	It has all the files which are needed to setup the WCMS.
/themes	It has all the files need for the display theme. And it also has the theme folders.
/images	It has all the images posted by all the users registered on the system.
/userdp	It has the display pictures of all the users.

/admin	It has all the scripts needed for administration.
/doc	It has the documentation files.

Database Structure:

Table name	Description
Post	This table is used to store data related the posts submitted by all the users.
User	This table is used to store information related to users and admins.
Device	This table is used to store the names of different phones and cameras.
Lens	This table is used to store the names of all the lens available.
Lens_type	This table is used to store different the types of lens.
App	This table is used to store the different apps used in photography.
Usermeta	This table is used to store data about the user like display name, bio and display pic path.

How to create your own theme?

Themes can be designed on top of anchors in RasterShare. An Anchor is a specialized PHP script which is used as an API to talk to the database.

At a minimum level each theme should have:

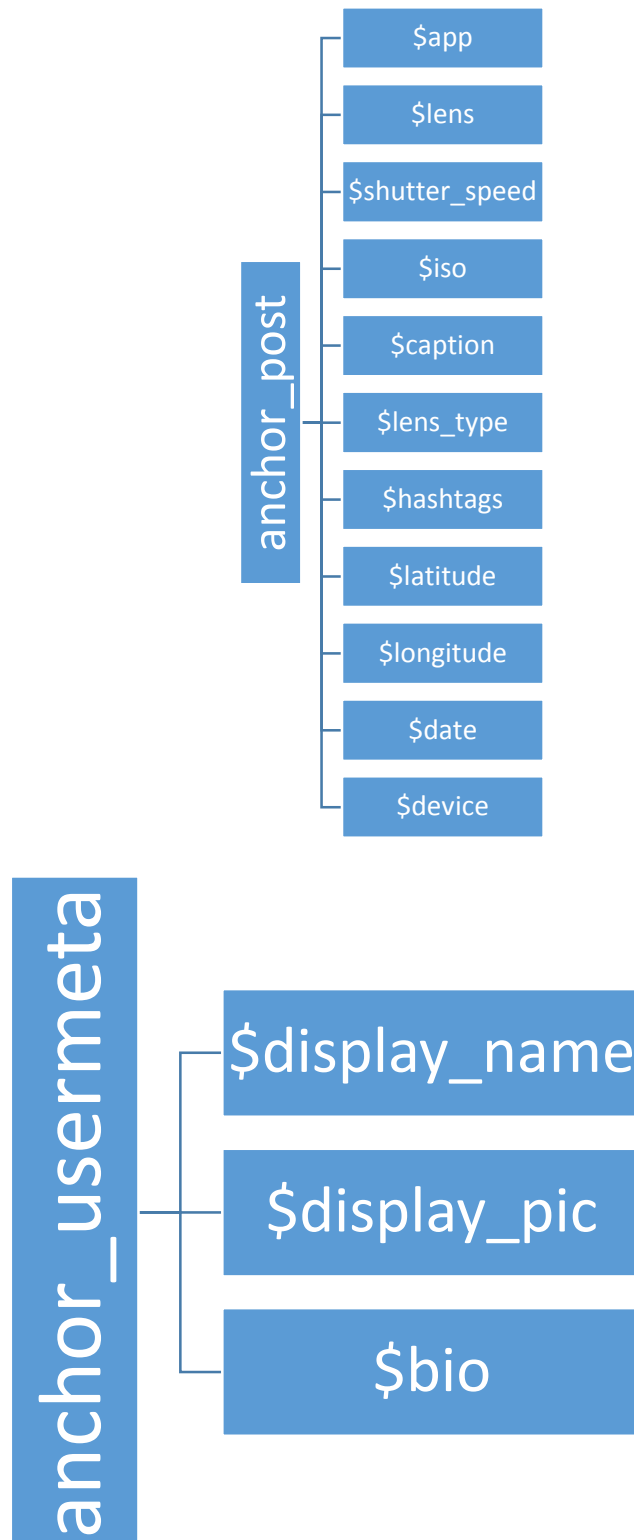
- A. Index.php
- B. Theme.css

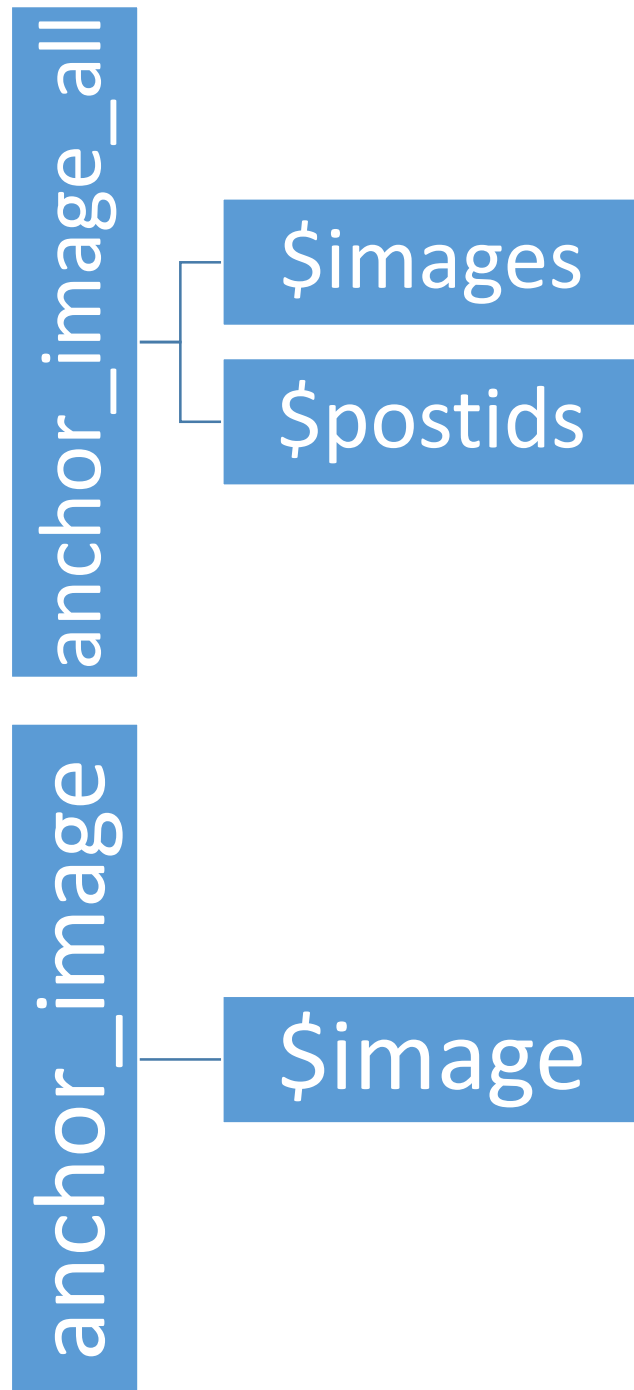
RasterShare has the following anchors:

- Anchor_image - This is used to retrieve one image from the database.
- Anchor_image_all - This is used to retrieve all the images of a particular user.
- Anchor_usermeta - This is used to retrieve metadata about the user from usermeta table.
- Anchor_postdata - This is used to retrieve all the data in a post.

Each anchor has a predefined set of variables which holds the data for that anchor which are set when some designated functions are called.

Anchor	Corresponding function
Anchor_image_all	get_images_all(\$user_id)
Anchor_image	get_images(\$user_id)
Anchor_usermeta	get_usermeta(\$user_id)
Anchor_postdata	get_postdata(\$post_id)





Administration:

It is the admin's duty to run the scripts which are present under the /admin folder to keep the system properly tune. Scripts like image_clean.php can directly be executed by the browser.

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Version 2.0, January 2004

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