

# Website Redesign Project

*Creating Intuitive Content Management*

*CS4624 Multimedia/Hypertext/Information Access*

*Professor E.A. Fox*

*Virginia Tech, Blacksburg 24061*

*Clients: Christine Link-Owens, Helen Gillespie*



**GILES ANIMAL RESCUE**  
P.O. BOX 354 PEARISBURG, VA 24134

*Group Members: Junko Yoshida*

*Supratim Baruah*

*Scott Hoang*

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## Executive Summary

Our clients, Christine Link-Owens and Helen Gillespie have asked us to upgrade and modify their website at *gilesanimalrescue.org*. They have been maintaining a Drupal website with the help of previous Virginia Tech students.

Bluehost is a web hosting company, which offers free web to Giles County Animal Rescue through the organization called Grassroots. Our client provided us their account to improve the website.

The website we have been working on contains news and events for the Giles County Animal Rescue organization as well as available animals for adoption, donation links, memorials for animals and contact information.

The main goal in this project is to make the website running Drupal to be easy to maintain, and to make the information on the website concise for the user to view.

Our secondary goal is to give back a product that the client will be able to maintain by themselves.

# Summary of Changes

We focused primarily on our client's objectives,

- Change the navigation bar of the website.
  - Change menu item "shelter" to "other resources."
  - Add "Spay/Neuter Information" page to "other resources" drop down list.
  - Add menu item, "Contact Us", where "Volunteer" is now or change "Volunteer" menu button to "Contact Us" (moving the contact info from "About us" drop down).
  - Change menu item, "About Us" to three drop downs: About Us, Volunteer, and Newsletters.
- Change internal links and attributes of data entries.
  - Divide lost and found animals to 2 tabs
  - Some viewers had a hard time finding the correct adoption forms to download. We are requested to add an adopt button on each animal description listed for adoption under "adoptable animals."
  - Add more data entry prompts when entering an animal entry. There are not enough data fields prompting for the relevant information about the animal, such as breed, adoption fee, neutered, good with kids, etc
- The ability to archive memorial entries.
- A timer for lost and found animals - add duration to the posted content of the entry, so the administrator knows how long the entry has been up.
- Added a donation form where donors enter their information, such as their name, address, email address, and purpose of the donation. When the "Jump to Paypal" button is clicked, the website emails the information to the site administrator.
- Applied Grid View to all the pages that display animals, news & event, and memorials.

# User's Manual

The admin password, how to login as an admin user, and how to add a new post are explained in the user's manual from last year. Where to obtain the user's manual is shown in Figure 1. This section explains the changes that were made and the new features we added to the website since the last update, last semester.

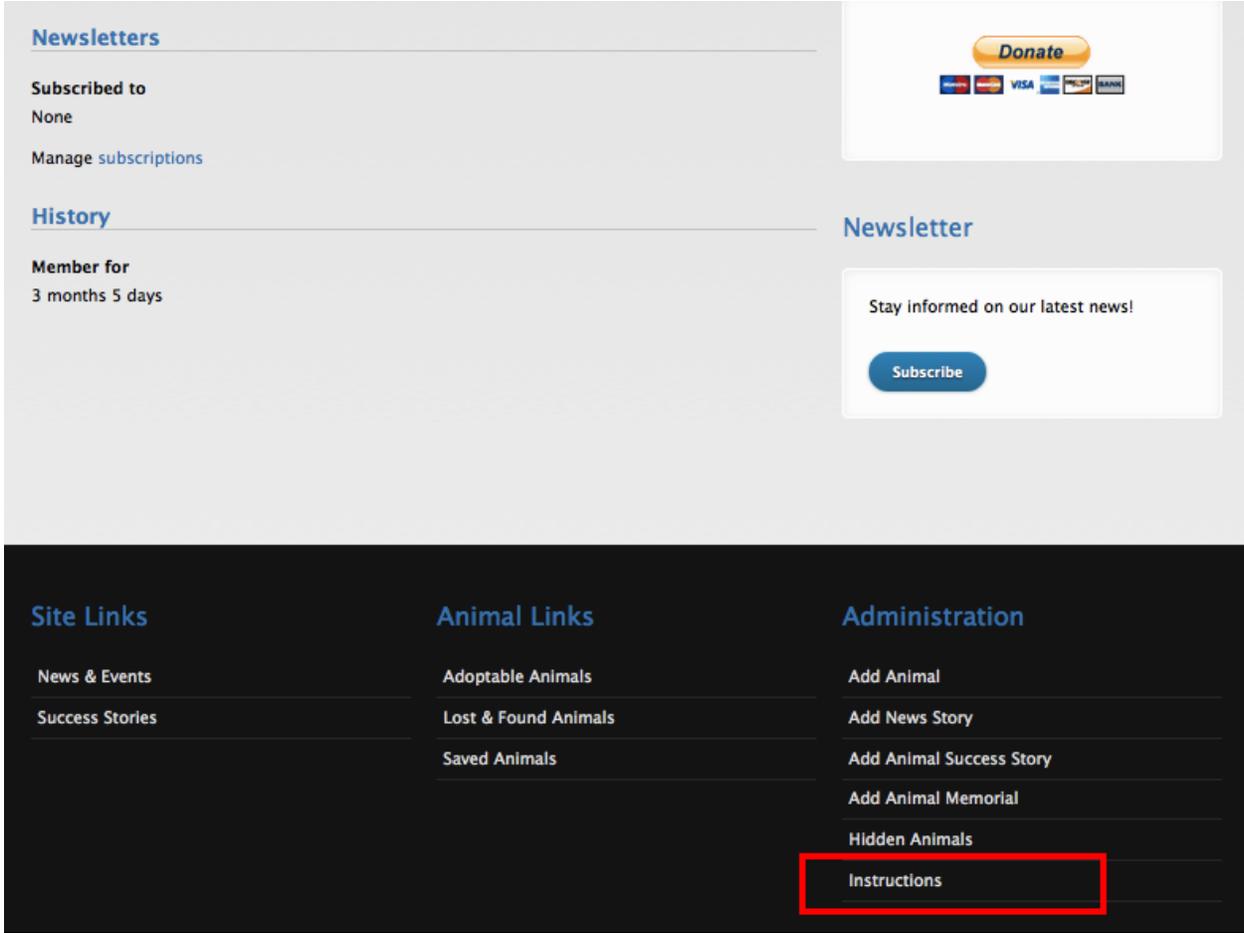


Figure 1: Location of the link to obtain user's manual

## Menu Links

Shelter Link in the main menu has been changed to other resources. Figure 2 shows where the change is located.



Figure 2. The previous design of <http://www.gilesanimalrescue.org/> with highlighting the first requested change

Spay/Neuter Information has been added to the site can be accessed under other Resources. While Shelter adoption procedure page has been deleted.

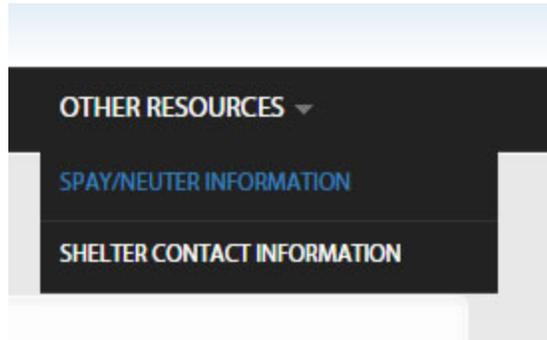


Figure 3: Newly added "Other Resources" menu link

Previously, the drop down menu items of "About Us" were "About Us", "Volunteer", and "Newsletters". The new drop down menu "Contact Us" has been added, and "Volunteer" is moved to the main menu. How to change the main menu and drop down menu is further discussed in the developer's manual on how to change the main links (page 29).

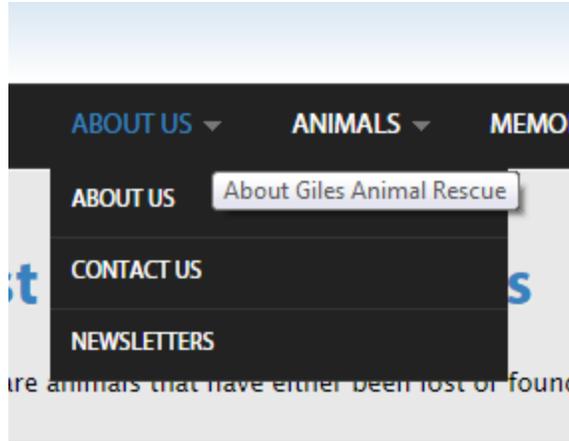


Figure 4. Fixed drop down menu of About Us

## Paypal Donation Page

A new method of donation has been added to the website. All the Donation links on the sidebar now redirect to the donation page where marked in red in Figure 5. Where the user will now need to fill out a form before they are directed to paypal for donation.



Figure 5. Donation links changed to donation page.

## Paypal Donation Form

View
Edit
Manage display
Webform
Results
Track

Please include the following information so we may send a card:

**Your Name:** \*

**Street Address:** \*

**City, State, Zip:** \*

**Your Email Address:** \*

**Donation Type:** \*

- I would like to donate to the GAR Spay/Neuter Program.
- I would like to donate to the Spirit Fund.
- I would like to donate toward GAR's Rescue efforts.
- I would just like to make a general donation\* at this time.

Figure 5.1 Donation form the user must fill before redirecting to paypal.

To modify the paypal form, the admin can click edit on the donation form and clicking on webform, which will bring them to Figure 5.2 where they can change or add more fields to the donation page.

The screenshot shows the 'Webform' configuration page for the 'Paypal Donation Form'. The 'WEBFORM' tab is highlighted in a red box. Below the navigation tabs, there are buttons for 'Form components', 'Conditionals', 'E-mails', and 'Form settings'. A table lists the form components with columns for LABEL, TYPE, VALUE, REQUIRED, and OPERATIONS.

LABEL	TYPE	VALUE	REQUIRED	OPERATIONS
+ Your Name:	Textfield	-	<input checked="" type="checkbox"/>	Edit Clone Delete
+ Street Address	Textfield	-	<input checked="" type="checkbox"/>	Edit Clone Delete
+ City, State, Zip	Textfield	-	<input checked="" type="checkbox"/>	Edit Clone Delete
+ Your Email Address:	E-mail	-	<input checked="" type="checkbox"/>	Edit Clone Delete
+ Donation Type	Select options	-	<input checked="" type="checkbox"/>	Edit Clone Delete
+ Description	Fieldset	-		Edit Clone Delete
+ Name:	Textfield	-	<input type="checkbox"/>	Edit Clone Delete
+ Address:	Textfield	-	<input type="checkbox"/>	Edit Clone Delete
+ You may submit a photo and/or message which we will post to our in Honor/in Memory of page, if you choose. If you would like to post a few words about your photo submission, please type the message here:	Textarea	-	<input type="checkbox"/>	Edit Clone Delete
+ Submit Image	File	-	<input type="checkbox"/>	Edit Clone Delete
+ <input type="text" value="New component name"/>	<input type="text" value="Textfield"/>		<input type="checkbox"/>	Add

At the bottom of the table, there is a 'Save' button and a URL: `gilesanimalrescue.org/node/165/webform?render=overlay#`

Figure 5.2 Webform for paypal donation form.

## Grid System

A new View is implemented to maximize number of pictures that can be viewed. Upon selecting an element, the view should expand to give detailed information about the entry.(role: front-end, back-end)

We removed the Donation link and newsletter from the sidebar which created more room for the posts on the page. One of our clients main request was to eliminate scrolling. Now each page only displays 6 posts and then the user will have to go to the next page to view other posts.

Below are the pictures of before and after of the pages we made changes in.

### Home Page



Figure 6.1 Homepage before our change

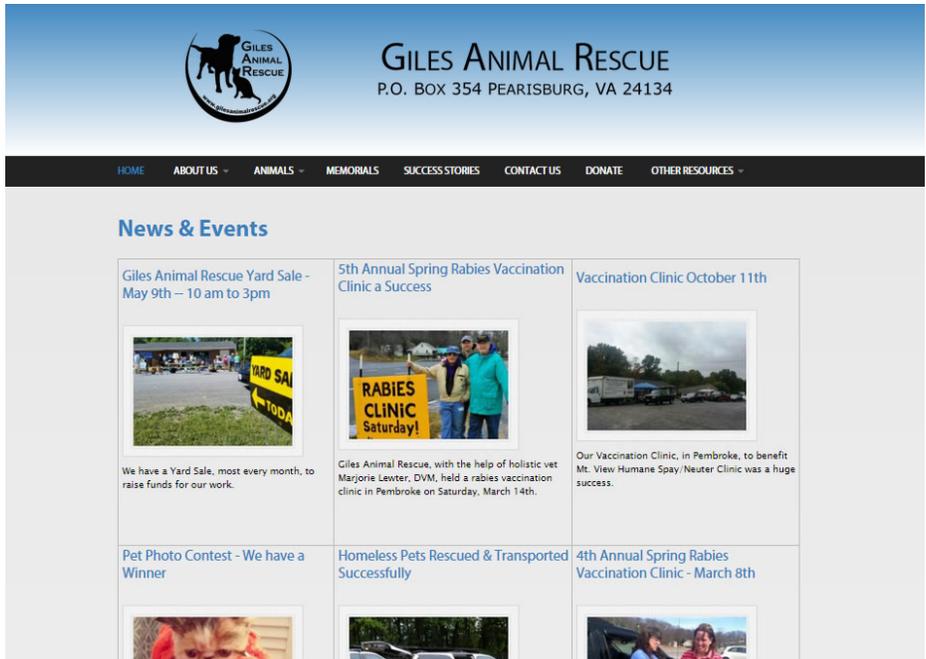


Figure 6.2 homepage after our change

## Success Stories

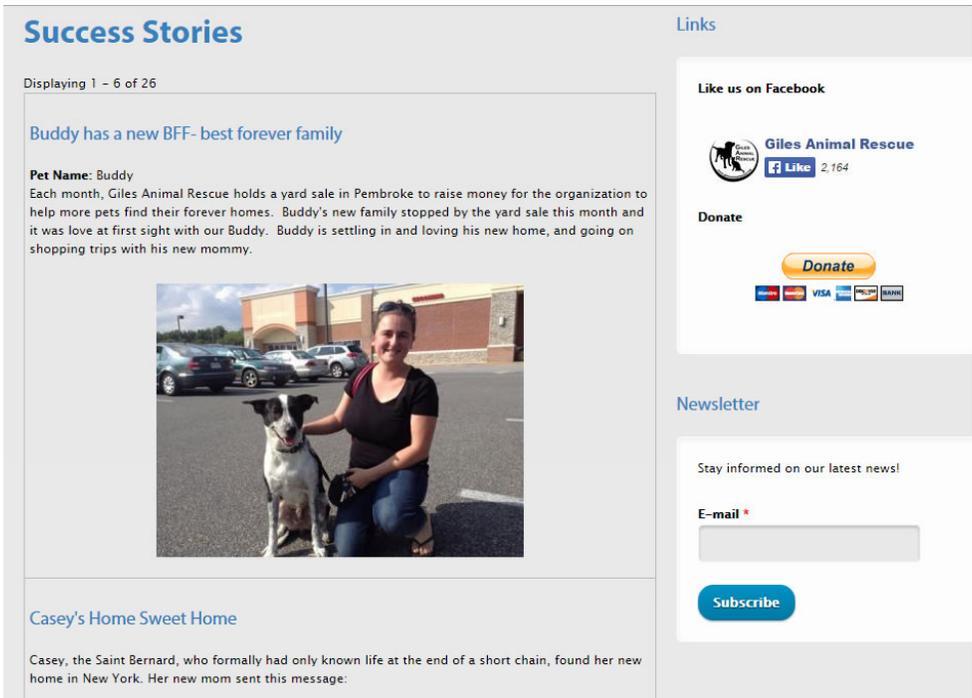


Figure 6.3 Success stories before our changer

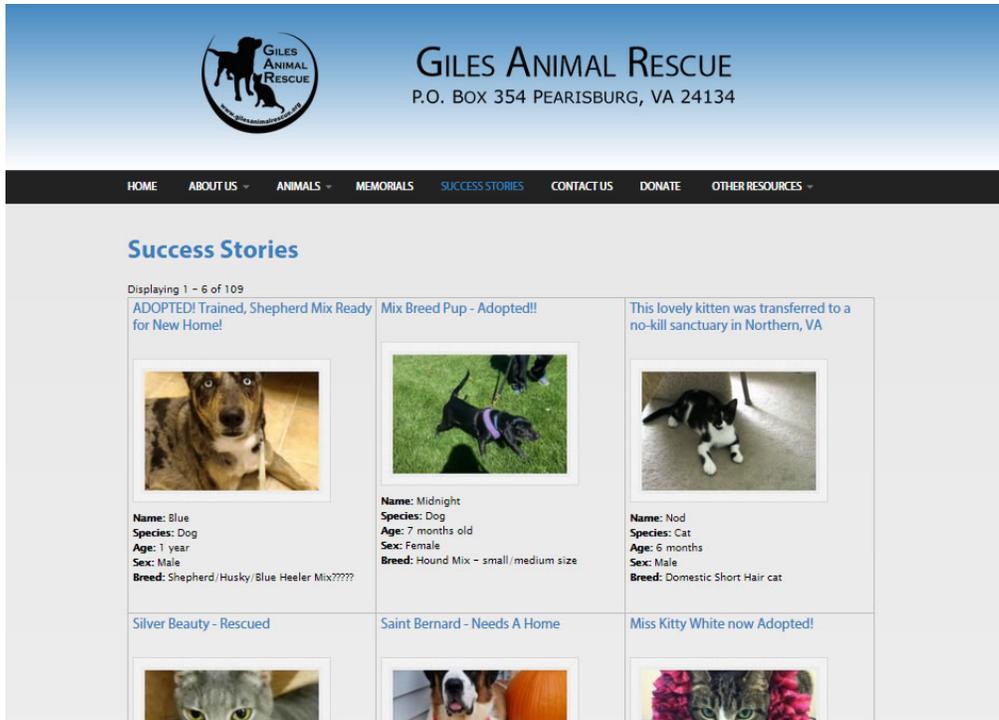


Figure 6.4 Success stories after change

Currently only 6 items are only shown per page in the grid view. To change this by clicking the setting and then the “Edit View” on the View module in the page as shown in Figure 6.5

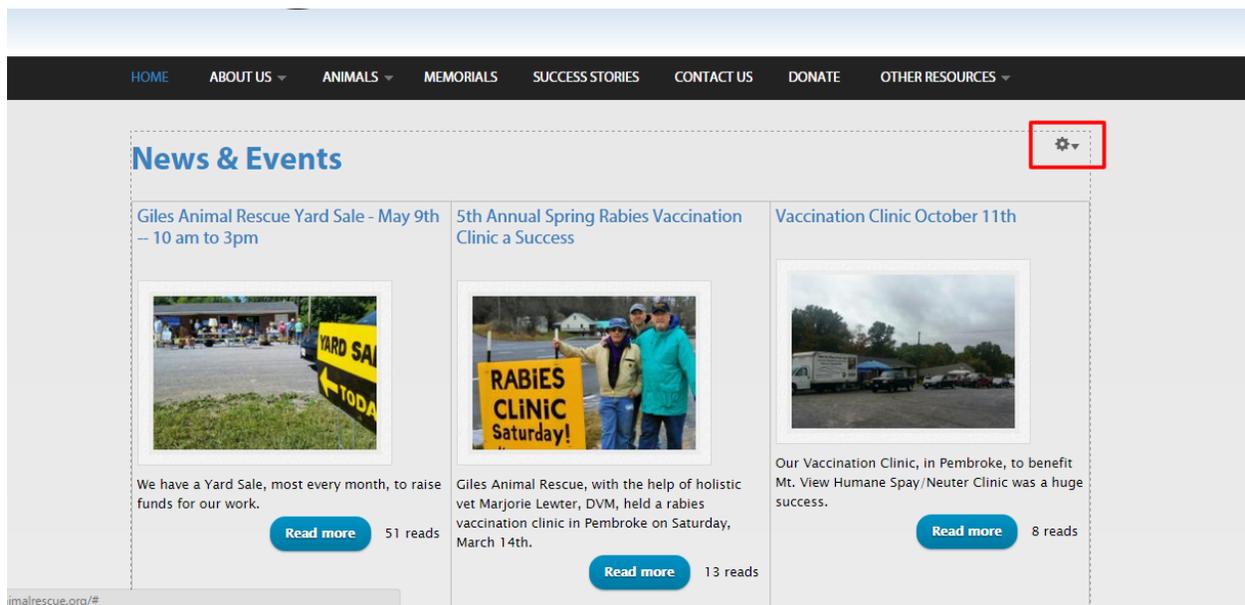


Figure 6.5. Edit Views Module on the page.

After clicking “Edit View”, they will be directed to Figure 6.6. Where they can click on the use pager option to change the number of items displayed on a single page.

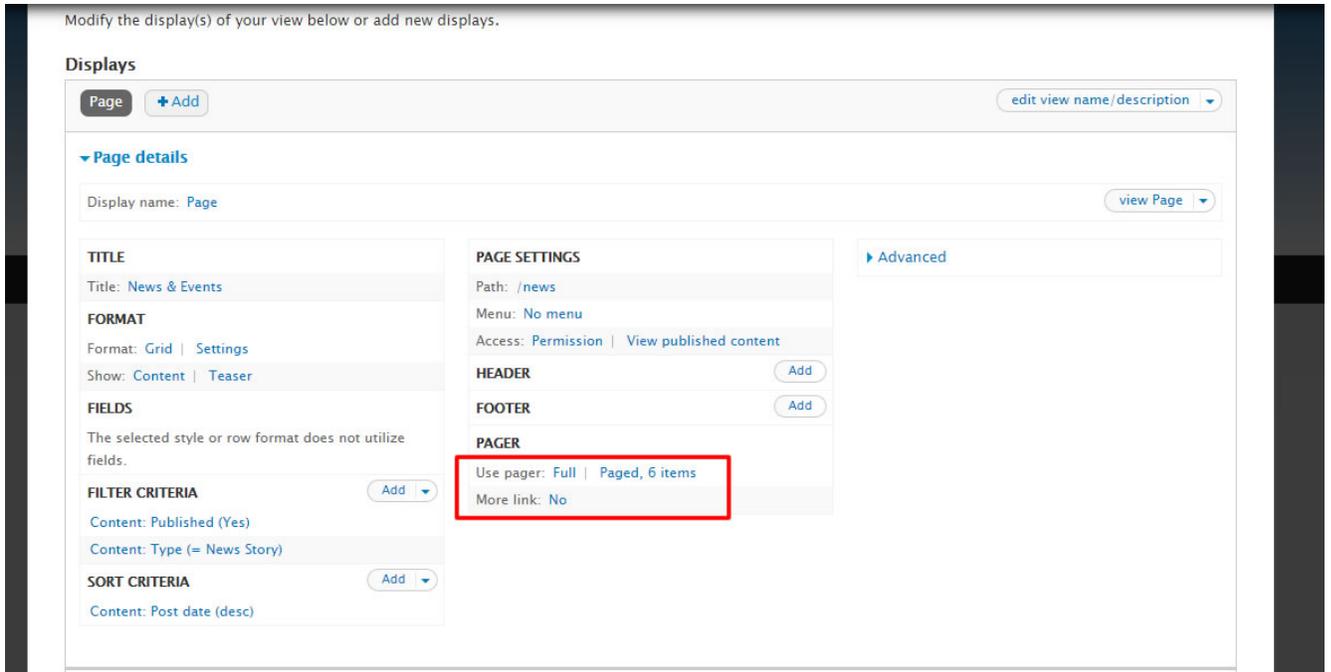


Figure 6.6. Views edit page to change the number to display.

## Lost and Found page

Lost and found page has been divided into two sections, so the user can find the post they are looking for easily. Figure 7 shows the page that lost and found animals separately.



Figure 7. New Lost and found page

## Timer functionality for Lost Animals

A new field **Expiration Date** is added to the content type of Animal. As requested by our client, we added the functionality to automatically remove lost animals from the Lost Animal page according to their expiration date. When a user adds a new lost animal, the expiration date is automatically set to **+ 90 days**. Figure 8 shows the location and format of expiration date field.

• Web page addresses and e-mail addresses turn into links automatically.  
• Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <ul> <ol> <li> <dl> <dt> <dd>

---

**IMAGES**

**Add a new file**

No file selected.

Files must be less than 50 MB.  
Allowed file types: png gif jpg jpeg.

---

**EXPIRATION DATE**

Format: 2015-06-07

---

**Menu settings**

Not in menu  Provide a menu link

---

Figure 8: Location to edit expiration date

When the expiration date has passed today's date, the lost animal is automatically archived and no longer listed in Lost Animal page. Today's date means the date a site visitor or administrator is visiting the site.

After lost animals are archived, site operators can publish the lost animal on the Lost Animal page again, by changing the expiration date. How to change the expiration date is the same as **How to publish Archived Contents** explained in page 19. Site operators should use the status **Not Published** and the type **Animal** to find archived lost animals.

## Adoptable Animal Page

Add an adoption procedures link on each animal description listed for adoption under "adoptable animals" so user do not have to search for the form around the website. Previously the link is located on top of the Adoptable Animals page, so viewers easily miss the link.



Figure 9. Adopt button is added to each adoptable animal

## Auto Logout

Users and admins now will be logged out of the system after 3 hours of inactivity. Before it always kept the user logged in.

To change the inactivity time limit or to disable automatic logout, admin can click on the module page located on top and then go to the Automatic Logout module and click configure. They will be directed to Figure 10 where can either disable or change the time limit.

## Auto Logout ⊕

Home » Administration » Configuration » People

**Timeout value in seconds**

The length of inactivity time, in seconds, before automated log out. Must be 60 seconds or greater. Will not be used if role timeout is activated.

**Max timeout setting**

The maximum logout threshold time that can be set by users who have the permission to set user level timeouts.

**Timeout padding**

How many seconds to give a user to respond to the logout dialog before ending their session.

Role Timeout  
 Enable each role to have its own timeout threshold, a refresh maybe required for changes to take effect. Any role not ticked will use the default time means that they will never be logged out.

**If Enabled every user in role will be logged out based on that roles timeout, unless the user has an individual timeout set.**

ENABLE	ROLE NAME	TIMEOUT (SECONDS)
<input checked="" type="checkbox"/>	authenticated user	<input type="text" value="10800"/>
<input checked="" type="checkbox"/>	administrator	<input type="text" value="10800"/>

Figure 10. Location to change the inactivity time limit or to disable automatic logout

## How to Archive Contents

For the content type Article and Animals, choose a contents to archive. Click the setting button on the right upper corner, and click "Edit" (Figure 11).

## In Honor Of/Memorials ⚙️

When sending a donation, you may designate in honor of someone or a pet. You may email photos to [gilesanimalrescue@gmail.com](mailto:gilesanimalrescue@gmail.com).

Displaying 1 - 5 of 5

**In Memory of Fred Pope**

Joann & Samuel Woolwine

**In Memory of Palis**

In memory of Palis, a sweet loving dog that I will never forget. I'm glad she found love, and now peace. Nina

⚙️

Edit  
 Delete  
 Manage display

Figure 11 - Click on Edit to go to the configuration page of the content

On the configuration page, scroll down to the end. There is a “Publishing options” tab (Figure 12). Click the tab and uncheck the “Published” option, and press “Save”. (Figure 13)

The image shows a configuration page with several sections:

- body**
- Text format**: Filtered HTML (dropdown menu).
  - Web page addresses and e-mail addresses turn into links automatically.
  - Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <ul> <ol> <li> <dl> <dt> <dd>

- IMAGES**
- Add a new file**: Browse... (button) No file selected. (text) Upload (button)
- Files must be less than **50 MB**.
- Allowed file types: **png gif jpg jpeg**.
- Menu settings**: Not in menu (checkbox) Provide a menu link (checkbox)
- Revision information**: No revision
- URL path settings**: No alias
- Authoring information**: By jackief on 2014-05-12 17:07:00 -0600
- Publishing options**: Published (checkbox) (This section is highlighted with a red box)

At the bottom, there are three buttons: Save, Preview, and Delete.

Figure 12 - Click on Publishing options

body

**Text format** Filtered HTML ▾

- Web page addresses and e-mail addresses turn into links automatically.
- Allowed HTML tags: <a> <em> <strong> <cite> <blockquote> <code> <ul> <ol> <li> <dl> <dt> <dd>

**IMAGES**

**Add a new file**

No file selected.

Files must be less than **50 MB**.  
Allowed file types: **png gif jpg jpeg**.

**Menu settings**

Not in menu

**Revision information**

No revision

**URL path settings**

No alias

**Authoring information**

By jackief on 2014-05-12 17:07:00 -0600

**Publishing options**

Published

- Published
- Promoted to front page
- Sticky at top of lists

Figure 13 – Uncheck “Published” to archive the content

## How to Publish Archived Contents

First, find the archived content to publish. Click to “Content” on the administration bar (Figure 14).



Figure 14 – Click “Content” on the administration bar

Choose “not published” on the status bar under “SHOW ONLY ITEMS WHERE”. (Figure 15) Choose the type of content that needs to be published.

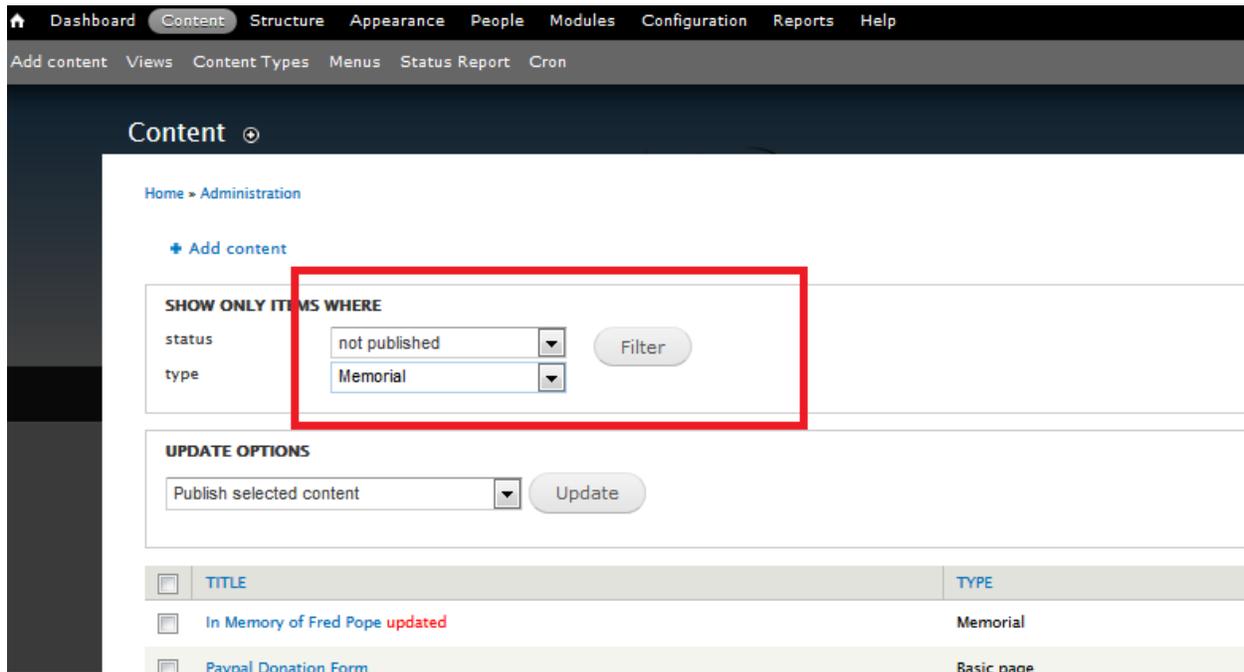


Figure 15 – Filter the status and type of content to find archived contents

The list of archived contents will be displayed. Choose the content to publish, and in the configuration page shown in Figure 12 and 13, check on the “Publish” option. Click “Save” to apply the change.

# Developer's Manual

The site uses the Drupal framework to manage all of the content. The basics of how to use the development tools on Drupal is explained in the developer's manual from last year which includes how to install and update Drupal, how to install modules, and how to control Views\*<sup>1</sup>.

## How to Duplicate the Website

Our client owns two domains. The main domain is *gilesanimalrescue.org*, which is set as the primary and has all of the resources. The another domain is *gilescountyanimalrescue.org*, which is set as the secondary and redirects to the primary domain. This section explains how to copy all of the resources from the primary domain to secondary domain, and configure the secondary domain to operate on it's own. After this process all of the changes made to the secondary domain will not affect the primary domain.

### Step 1. Install Drupal into the Secondary Domain

How to install Drupal on Bluehost is explained in the report from last year (Page 4). The only difference is choosing the secondary domain *gilescountyanimalrescue.org* as the destination of the Drupal installation, as shown in Figure 16.

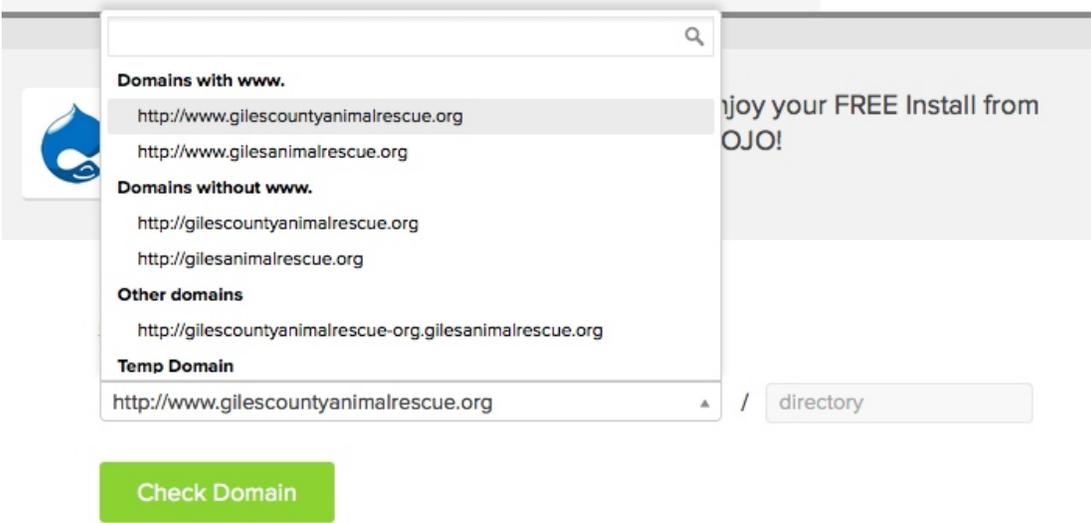


Figure 16: How to choose a destination domain to install Drupal

## 2. Create the Database

<sup>1</sup> Views is one of Drupal's powerful frameworks that allow users to group content by filtering rules.

The new databases must be created in order for the secondary domain to have its own resources. The primary domain uses two databases named “gilesani\_dru1” and “gilesani\_dru2”, and both need to be duplicated for the secondary domain. Developers can choose any name for the databases. However, “gilesani\_dru1dup” and “gilesani\_dru2dup” are highly recommended, because we left sql files in the temporary folder in Bluehost (Explained in Step 3), which can be later used to import data from the primary domain. If other database names are used, developers should modify the .sql files to match with their database names. A username also needs to be assigned to each new database. Table 1 shows the recommended database names and usernames for the secondary domain.

Database Name (Primary Domain)	Database Name (Secondary Domain)	Username
gilesani_dru1	gilesani_dru1dup	gilesani_dup1
gilesani_dru2	gilesani_dru2dup	gilesani_dup2

Table 1: Recommended database names and usernames

To create a new database, click on the “MySQL Database” on cPanel as shown in Figure 17.

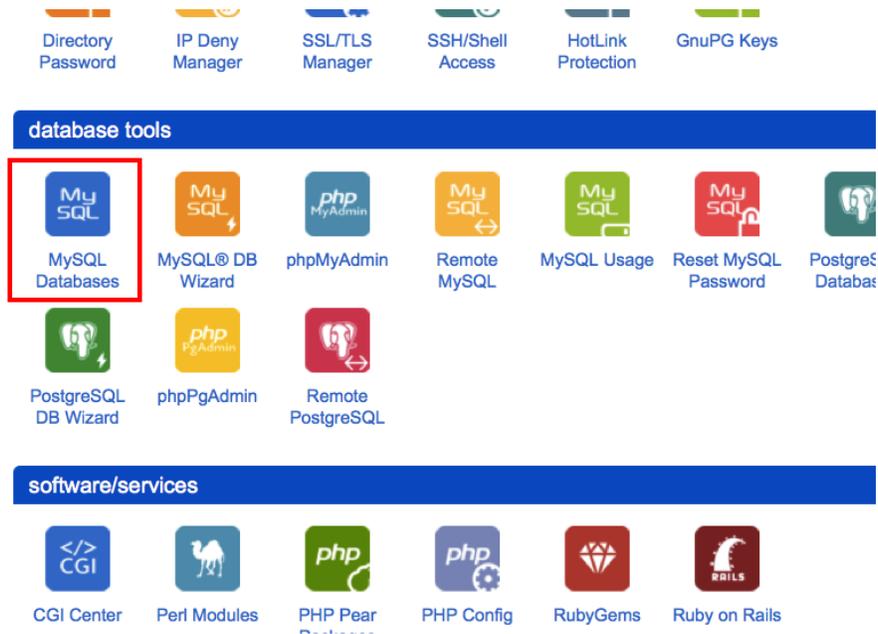


Figure 17: Location of MySQL Databases on cPanel

On the MySQL Database page, enter a name for a new database. The location is shown in figure 18.

### Create New Database

New Database: gilesani\_  
dru1dup 

[Create Database](#)

### Modify Databases

Check DB: gilesani\_dr1723 [Check DB](#)

Repair DB: gilesani\_dr1723 [Repair DB](#)

### Current Databases

Search

Figure 18: Location to enter a new database name

Click “Create Database” to create a new database. After creating two new databases, add a user to each database. Two users are already created for the secondary domain, “gilesani\_dup1” and “gilesani\_dup2”. Choose a username and database name, and press “Add”, as shown in Figure 19.

### Add User To Database

User: gilesani\_dup1  
Database: gilesani\_dru1dup

[Add](#)

### Current Users

USERS	Ac
gilesani_255	 <a href="#">Set Password</a>
gilesani_302	 <a href="#">Set Password</a>
gilesani_512	 <a href="#">Set Password</a>
gilesani_dr1723	 <a href="#">Set Password</a>
gilesani_dr1803	 <a href="#">Set Password</a>

Figure 19: Choose user and database to add a user

## Step 3. Import Database

This step will import a database from the primary domain to the new database just created.

From the cPanel, click “phpMyAdmin”. The location is shown in Figure 20.

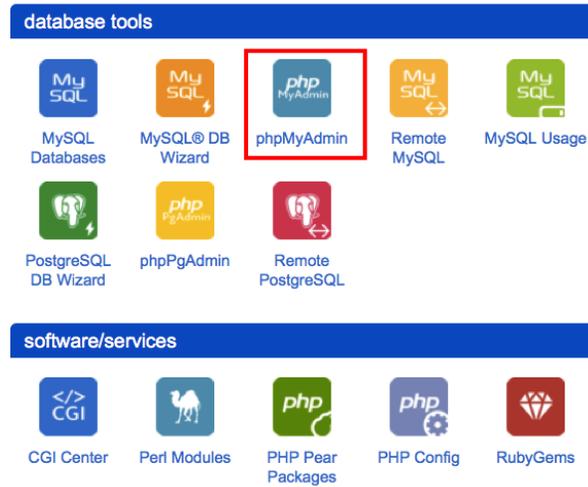


Figure 20: Location of phpMyAdmin

On the phpMyAdmin screen, click on the new database located on the left pane, and press **Import**. The location is shown in Figure 21. Only one database should be worked with at a time.

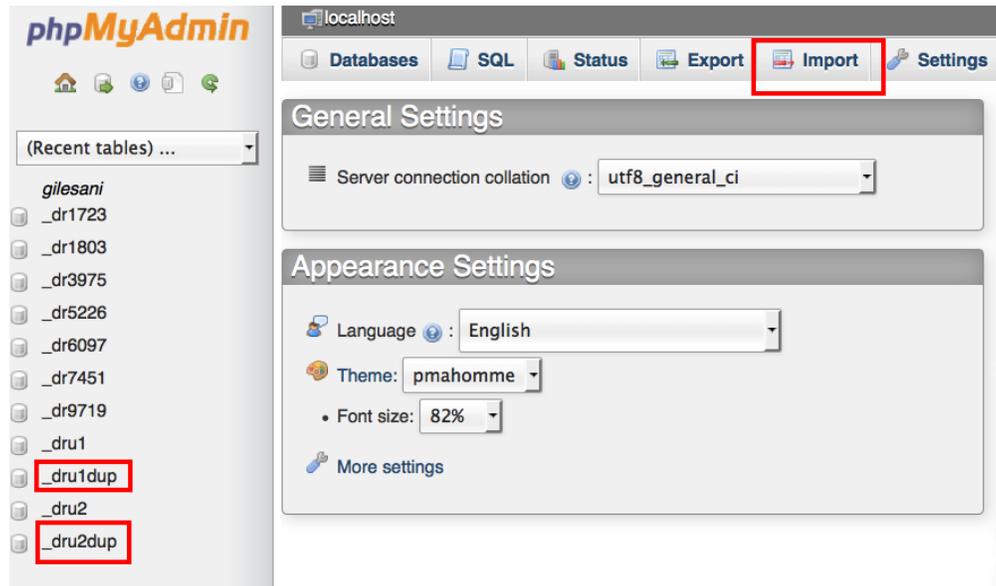


Figure 21: Location of the new database and Import button

On the **Import** tab, select a .sql file, shown in Figure 22. Two .sql files are already configured and located under `/home/gilesani/tmp/`. Accessing and editing the files is explained in Appendix 1. The `gilesani_dru1dup.sql` file should be used to import the `gilesani_dru1` database to the `gilesani_dru1rup` database. The `gilesani_dru2dup.sql` file should be used to import the `gilesani_dru2` database to the `gilesani_dru2rup` database.

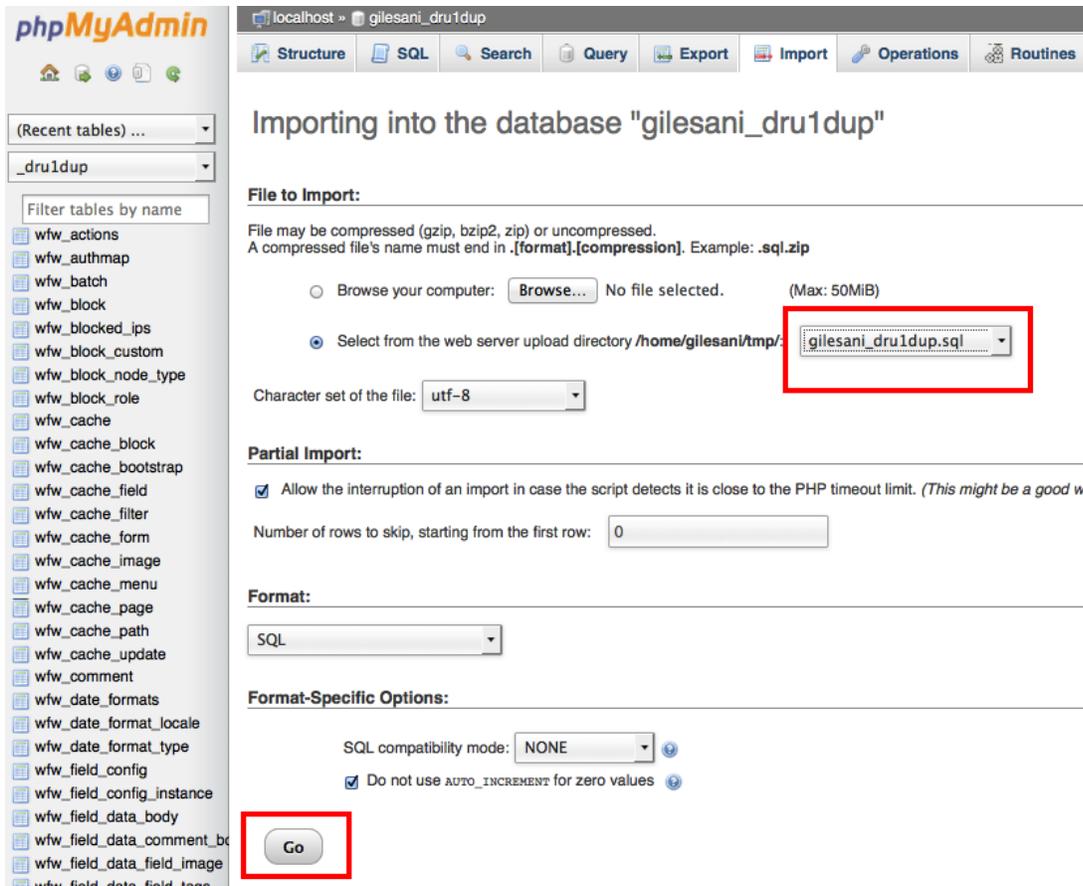


Figure 22: How to select a .sql file and import a database

After selecting the proper .sql file, click the **Go** button on the bottom of the page.

#### Step 4. Copy all Drupal Files

How to access the File Manager on cPanel is explained in Appendix 1. The includes, misc, modules, profiles, scripts, sites, and themes directories under `/public_html` should be copied to the `/public_html/gilescountyanimalrescue/` directory. Figure 23 shows directories that need to be copied.

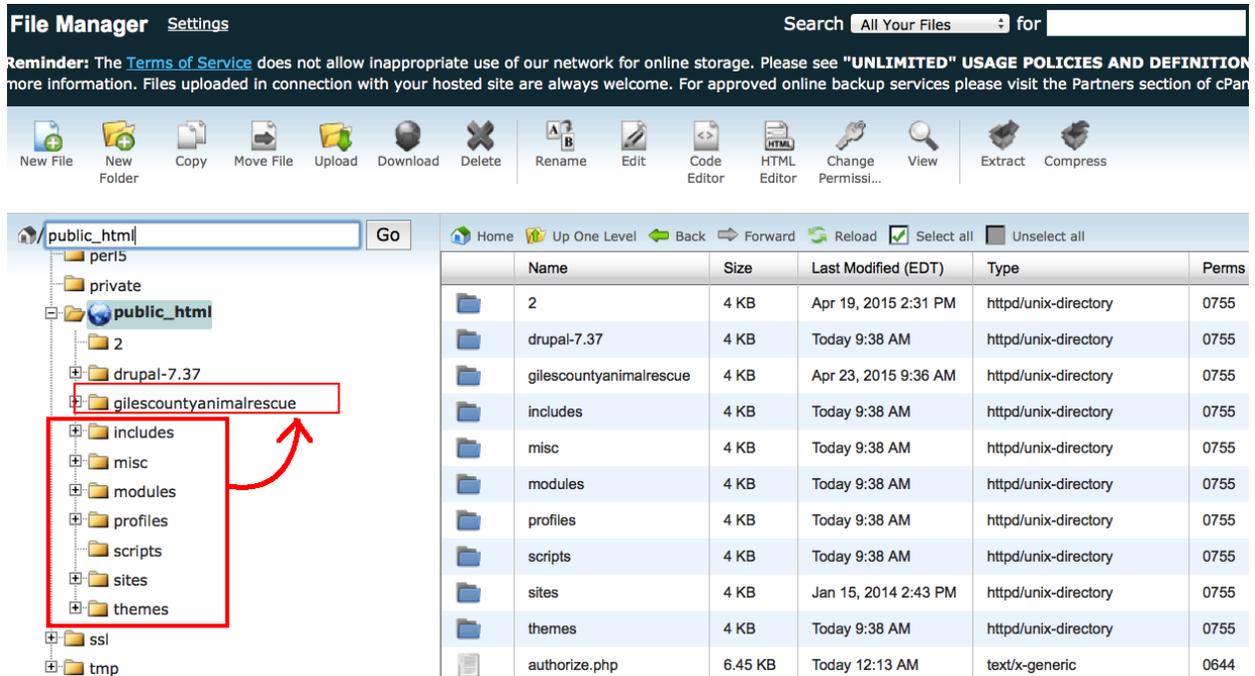


Figure 23: Directories that need to be copied to /public\_home/gilescountyanimalrescue directory

To copy directories, click a directory you want to copy from on the left pane, and click **Copy**. Figure 24 shows choosing the **include** directory and clicking the Copy button.

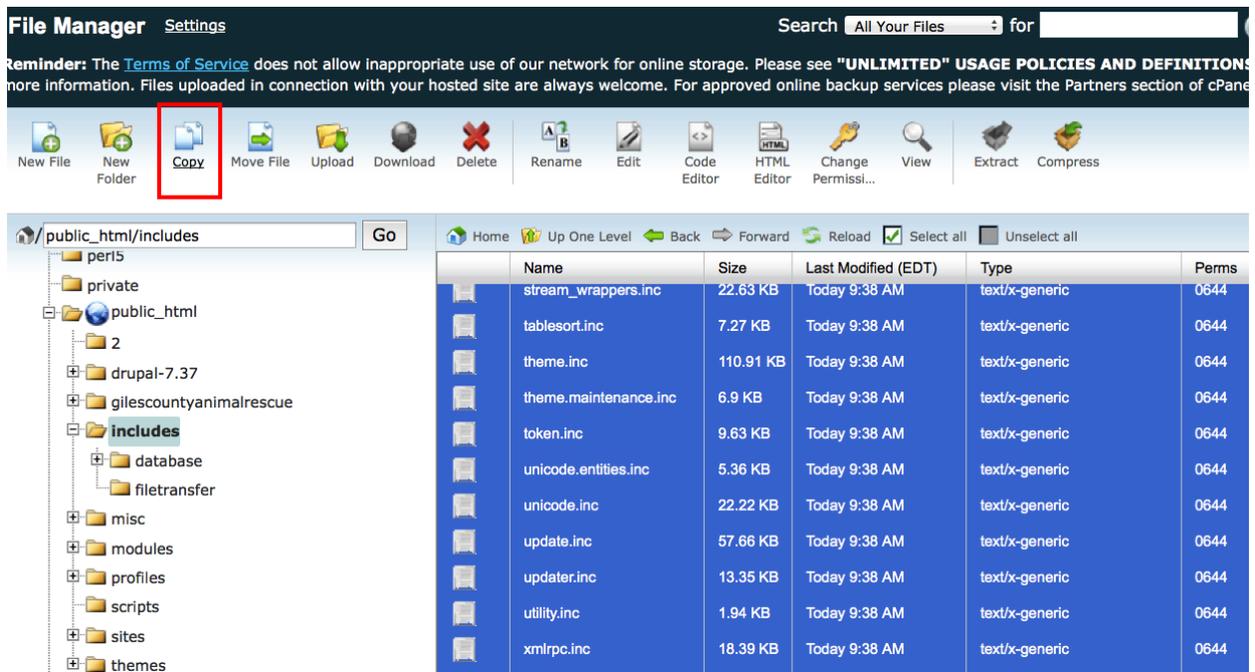


Figure 24: Choose **include** directory and click **Copy** button

After choosing a directory to copy from, enter the destination directory as shown in Figure 25.

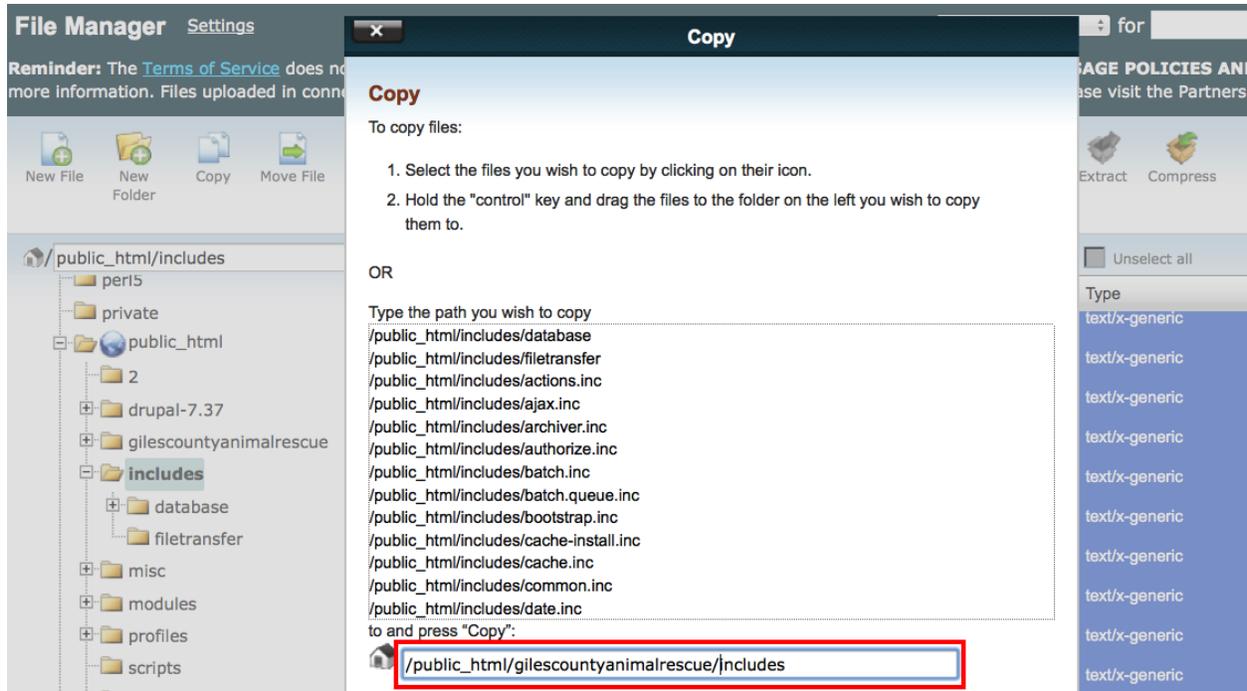


Figure 25: Enter the destination to copy the directories to

Repeat the same process for the other directories misc, modules, profiles, etc.

### Step 5 Update the settings.php file

Navigate to `public_html/gilescountyanimalrescue/sites/default/setting.php` using the File Manager on Bluehost. Select the setting.php file and click **code editor**, as shown in Figure 26.

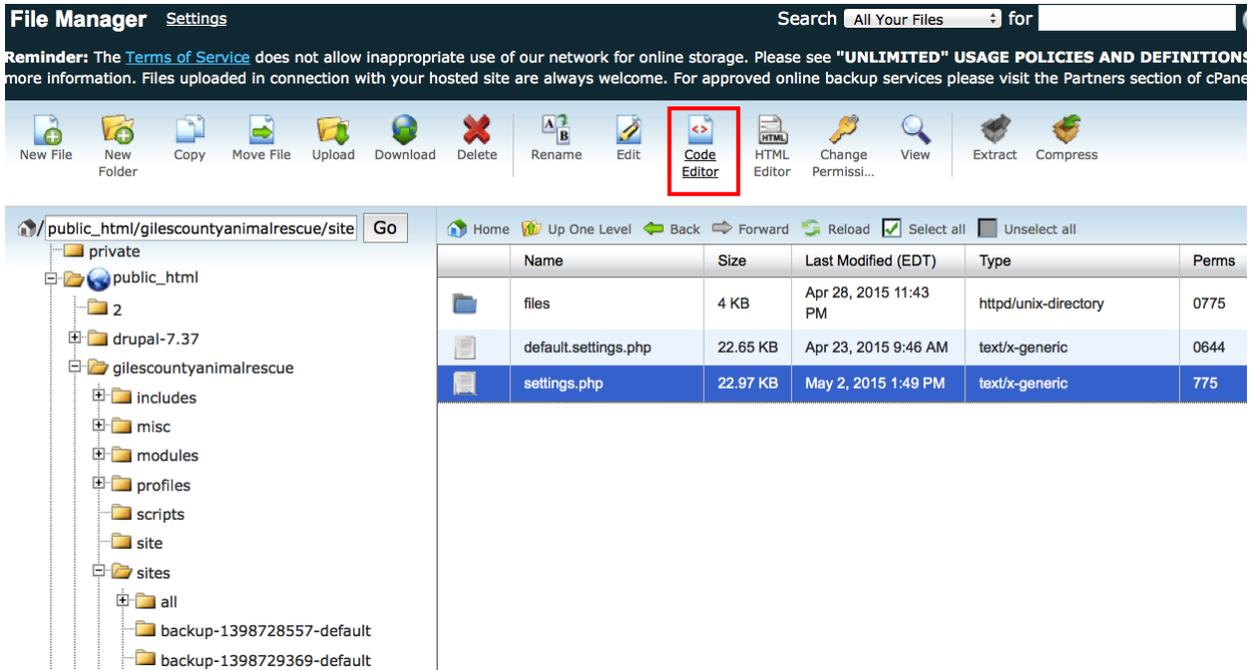


Figure 26: Select setting.php file and click Code Editor

Update the *database name*, *username*, and *password* <sup>\*2</sup> to match with the new database. Those fields have different entries for the primary domain. Change them as shown in Figure 27.

```

209 *      'database' => '/path/to/databasefilename',
210 *    );
211 * @endcode
212 */
213 $databases = array (
214   'default' =>
215     array (
216       'default' =>
217         array (
218           'database' => 'gilesani_dru2dup',
219           'username' => 'gilesani_dup2',
220           'password' => 'Shelters1354',
221           'host' => 'localhost',
222           'port' => '',
223           'driver' => 'mysql',
224           'prefix' => 'xyv_',
225         ),
226       ),
227 );
228
229 /**
230  * Access control for update.php script.
231  *

```

Figure 27: Location to change the database name, username, and password

<sup>2</sup> The password used for gilesani\_dru1dup and gilesani\_dru2dup database users is the same as the one to login to Bluehost.

Save the file. Now the *gilescountyanimalrescue.org* domain is running.

## Change the Order of Menu Links

“Menu Links” is the terminology in Drupal that represents the site navigation bar under the site title. The area marked in red in Figure 28 is the Menu Links.



Figure 28 – The area marked in red are the “Menu Links”

This section explains how to change the order of the Menu Links. First, go to “Structure” page on the administration bar. Figure 29 below shows where the “Structure” link is located.



Figure 29 – The area marked in red is the “Structure” link

On the Structure page, choose “Menus”. Figure 30 shows where “Menus” is located.

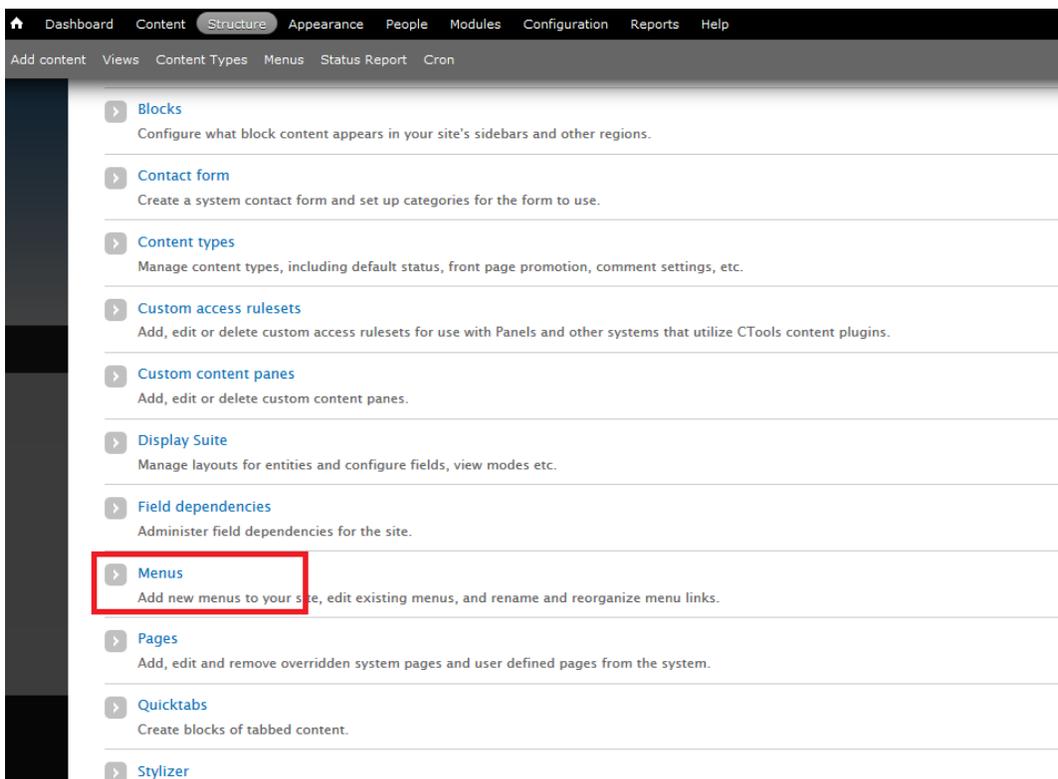


Figure 30 – Click on “Menus” from options

On the Menu page, click on “list links”. Figure 31 shows where “list links” is located.

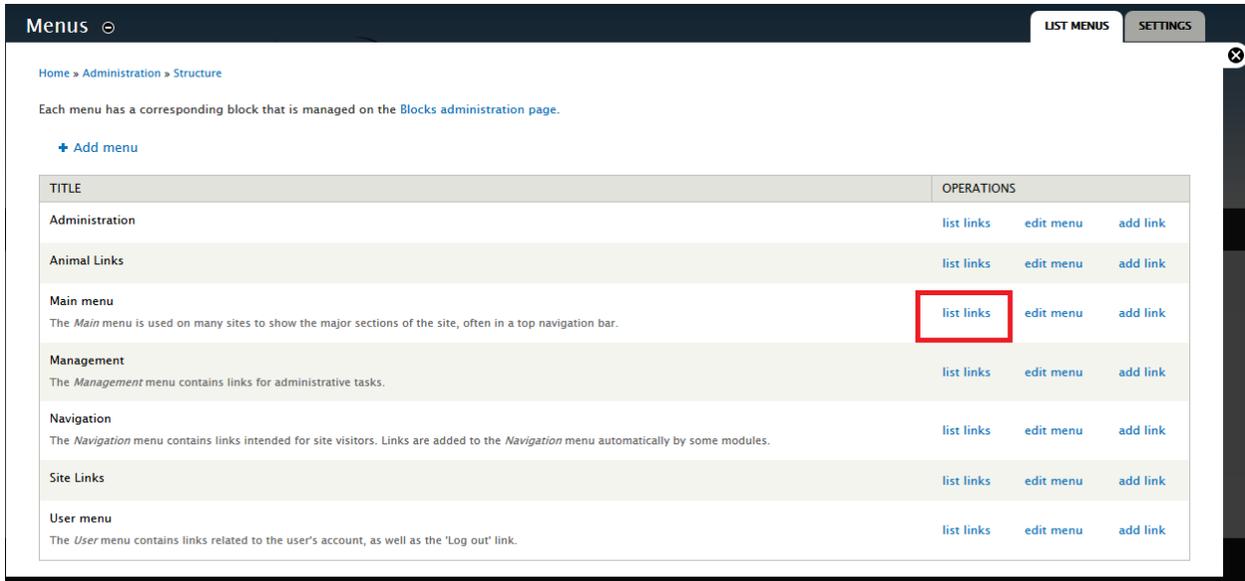


Figure 31 – Click on “list links” from options

The “list links” page shows the structure of the Menu Links. The order of the Menu Links can be modified by dragging the cross arrows located at the left side of each Menu Link, shown in Figure 32. By moving arrows to the right, Menu Links will become sub-menus.

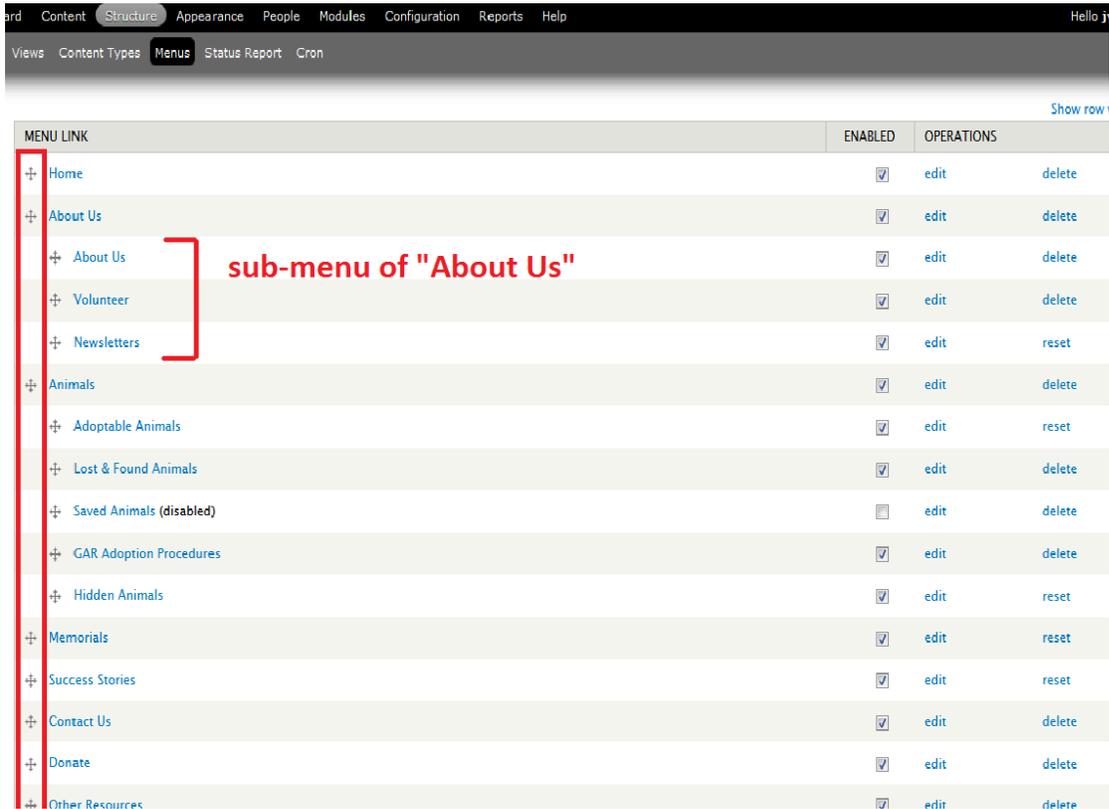
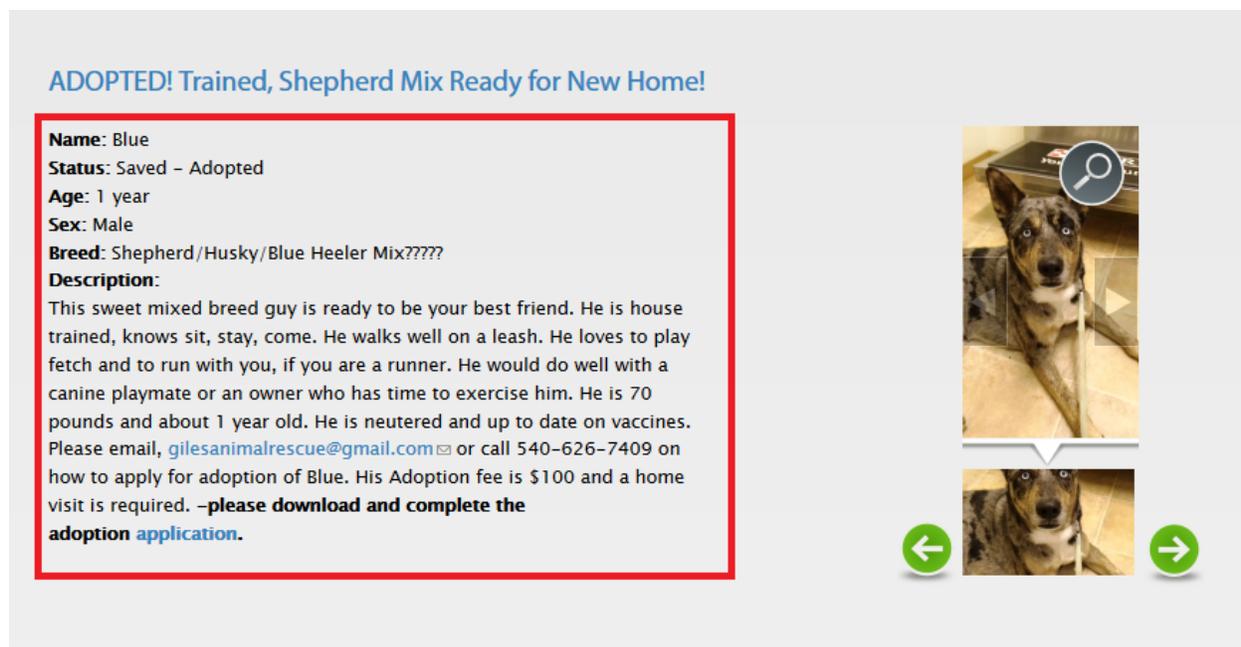


Figure 32 – Cross arrows to change the order of the Menu Links

After changing the order, click the Save button located on the bottom of the page.

## Change the Order of Fields in Animals

The “Fields in Animals” are the lists of the Name, Status, Age, Sex, and Breed for each animal, as shown in Figure 33.



**ADOPTED! Trained, Shepherd Mix Ready for New Home!**

**Name:** Blue  
**Status:** Saved – Adopted  
**Age:** 1 year  
**Sex:** Male  
**Breed:** Shepherd/Husky/Blue Heeler Mix?????  
**Description:**  
This sweet mixed breed guy is ready to be your best friend. He is house trained, knows sit, stay, come. He walks well on a leash. He loves to play fetch and to run with you, if you are a runner. He would do well with a canine playmate or an owner who has time to exercise him. He is 70 pounds and about 1 year old. He is neutered and up to date on vaccines. Please email, [gilesanimalrescue@gmail.com](mailto:gilesanimalrescue@gmail.com) or call 540-626-7409 on how to apply for adoption of Blue. His Adoption fee is \$100 and a home visit is required. **–please download and complete the adoption application.**

The image shows a screenshot of an animal adoption listing. On the left, a red rectangular box highlights the fields: Name, Status, Age, Sex, and Breed. To the right of the text are two photos of a dog, with a magnifying glass icon over the top photo and left/right navigation arrows below the bottom photo.

Figure 33 –The “Fields in Animals” are shown in the red box

The way to change the order of the Fields in Animals is similar to that of the Menu Links. The Fields in Animals are the Name, Status, Age, Sex, Breeds, etc, that are shown for each animal. First click on the “Content Types” link. Figure 34 shows where the link is located.

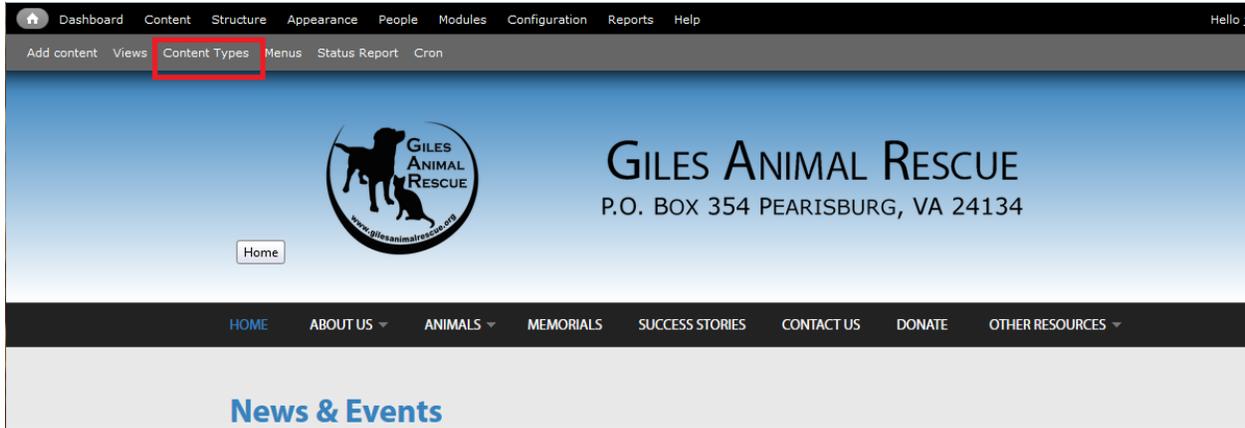


Figure 34 – Content Types is located at the top left corner

On the Content Types page, choose “Manage Display” of the Animal. Figure 35 shows where the link is located.

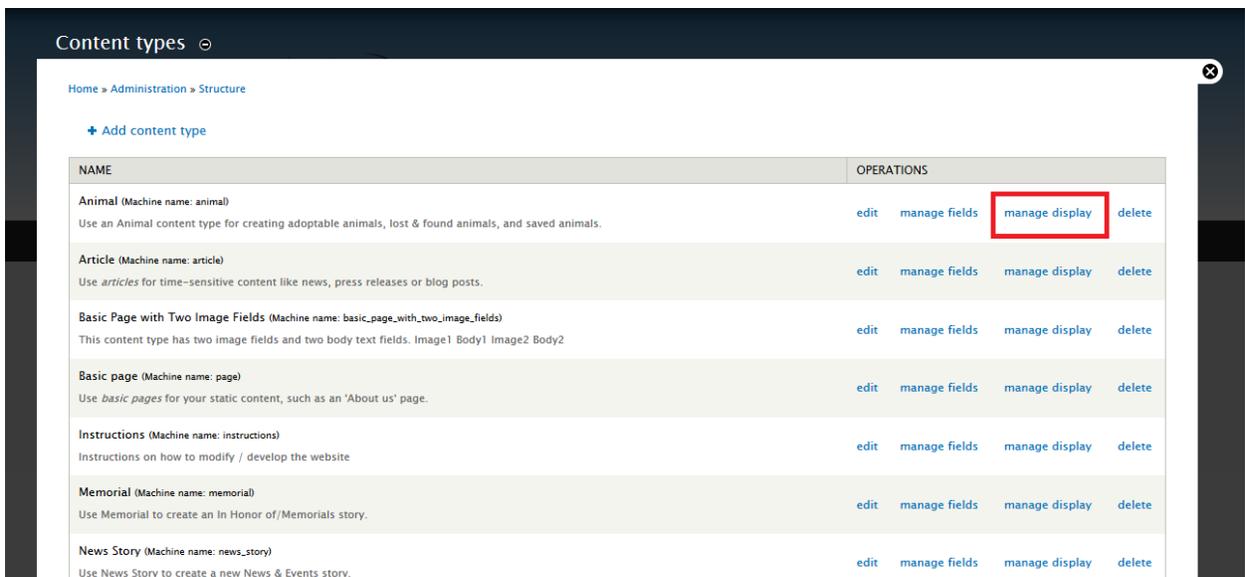


Figure 35 – The Manage Display link for the Animal row is shown in the red box

The order of Fields in Animals can be changed by dragging the cross arrows shown in Figure 36.

FIELD	REGION	LABEL	FORMAT
<b>Header</b>			
⊕ Title	Header ▾	<Hidden> ▾	Default ▾
<b>Left</b>			
⊕ Name	Left ▾	Inline ▾	Default ▾
⊕ Status	Left ▾	Inline ▾	Default ▾
⊕ Age	Left ▾	Inline ▾	Default ▾
⊕ Sex	Left ▾	Inline ▾	Default ▾
⊕ Neutered	Left ▾	Inline ▾	Default ▾
⊕ Breed	Left ▾	Inline ▾	Default ▾
⊕ Good with Kids	Left ▾	Inline ▾	Default ▾
⊕ House Trained	Left ▾	Inline ▾	Default ▾
⊕ Intake Date	Left ▾	Inline ▾	Default ▾
⊕ Date Available	Left ▾	Inline ▾	Default ▾
⊕ Adoption Fee	Left ▾	Inline ▾	Default ▾
⊕ Description	Left ▾	Inline ▾	Default ▾
<b>Right</b>			

Figure 36 – The order of Fields in Animals can be changed by dragging the cross arrows marked in red

After making changes, click “Save” located at the bottom of the page.

## Usage of Advanced Modules

Task Name	Module Name	Result
Divide lost and found animals	QuickTab	Refer to Figure 7 on page 14.
Add button to "Adopt!" to only adoptable animals. Display available date, neutered, and good with kids to only adoptable animals	Field Conditional	Refer to Figure 9 on page 16.
Remove lost animals automatically when expiration date is passed.	Rules	Lost animals are removed from Lost page automatically after expiration date is passed. Refer to Figure 37 for how the logic works.
Paypal Donation Form	Webform	As soon as a donor press the "Jump to Paypal" button, the site is redirected to Paypal donation page, and also the form result is sent to the site operator. Refer to Figure 38.

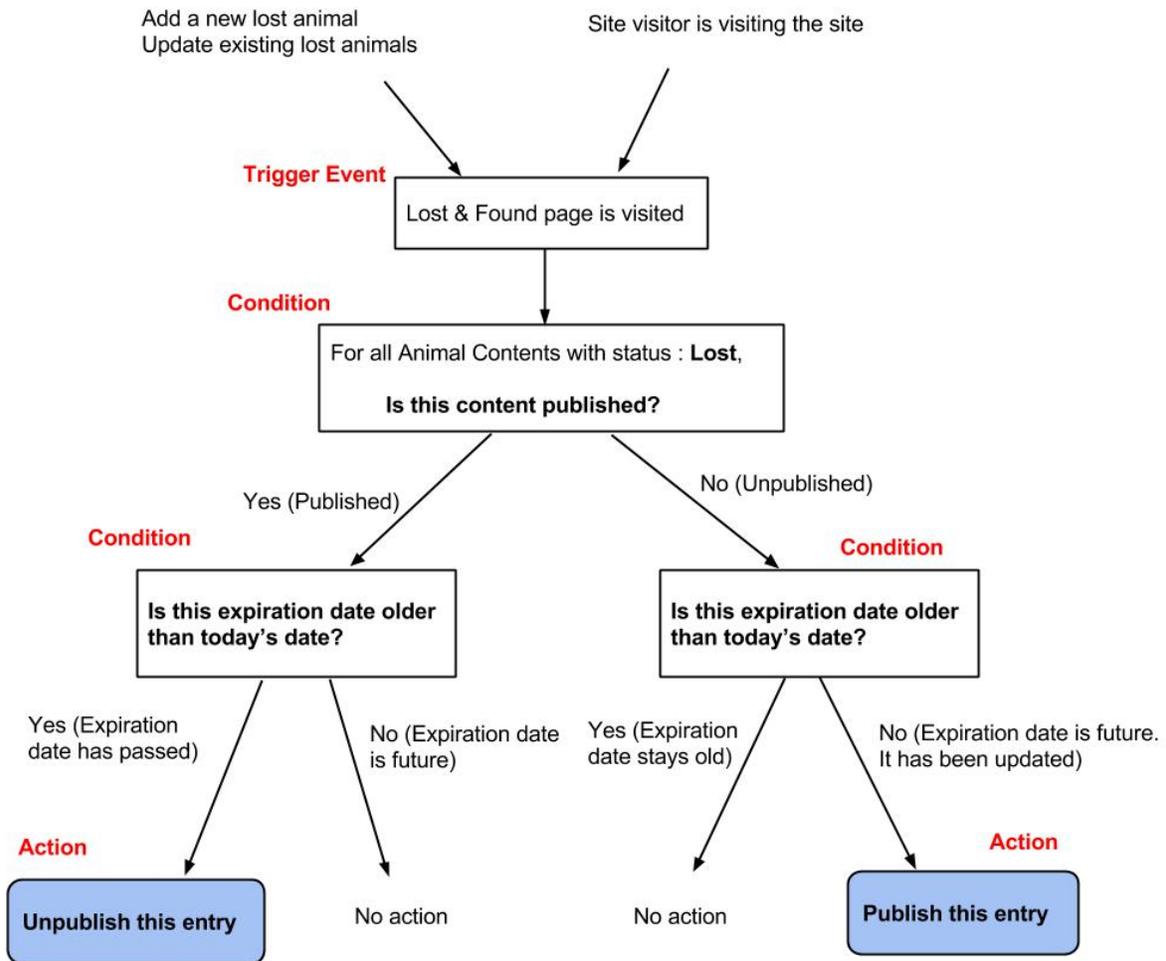


Figure 37: Logic of publish/archive lost animals

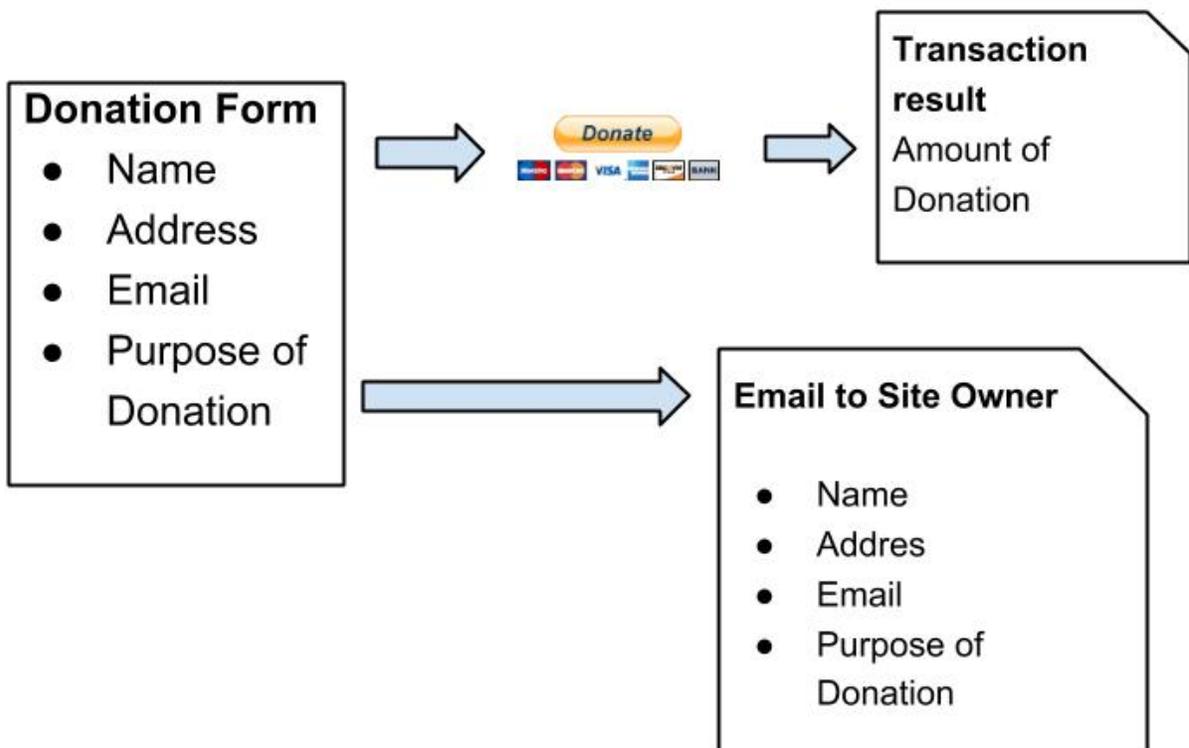


Figure 38: Flow of the Paypal Donation Form

## Grid View



Figure 39. Expandable views across relevant pages.

Content display type on the Views module has been changed to Teaser. The Views display setting has been changed to a grid, with 3 columns. Field Multiple Limit Module was installed to only display one image in the teaser view, and Image Effect Kit module was installed to scale and format the image for the grid view.

```

====Grid====
table.views-view-grid.cols-3 {
  width:100%;
}

td.col-1 {
width: 33%;
}

td.col-2 {
width: 33%;
}

td.col-3 {
width: 33%;
}

td.col-1, td.col-2, td.col-3, td.col-4 {
width: 25%;
vertical-align: top;
text-align: left;
}

```

Figure 40. Css code added for the grid of 3 and 4 columns.

Also Css is added to the style.css file in 'public\_html/sites/all/themes/corporateclean/style.css' on the bluehost server to format the grid to correct size and display the node correctly.

## How to Update Drupal Module

Modules can be updated with one click by going to the module option at the top and then clicking on update as shown in Figure 41.

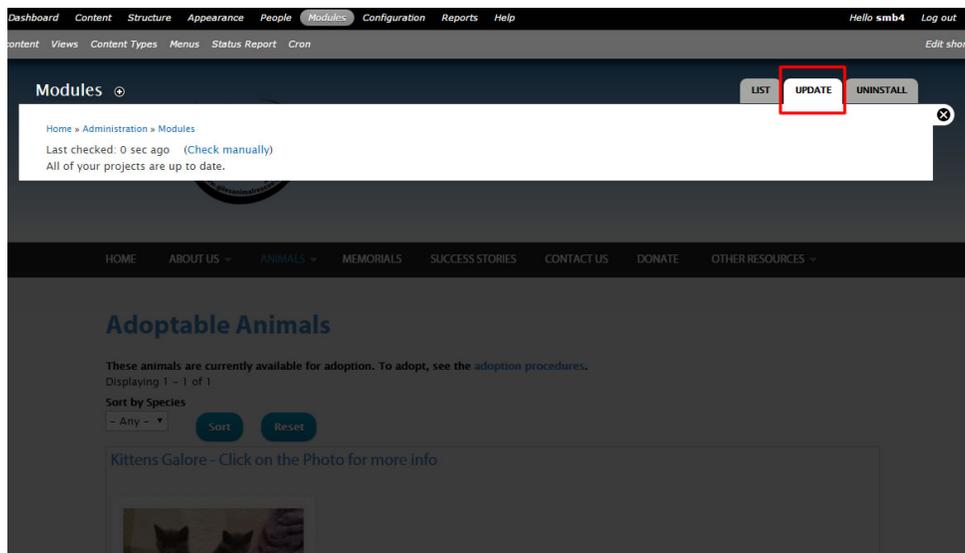
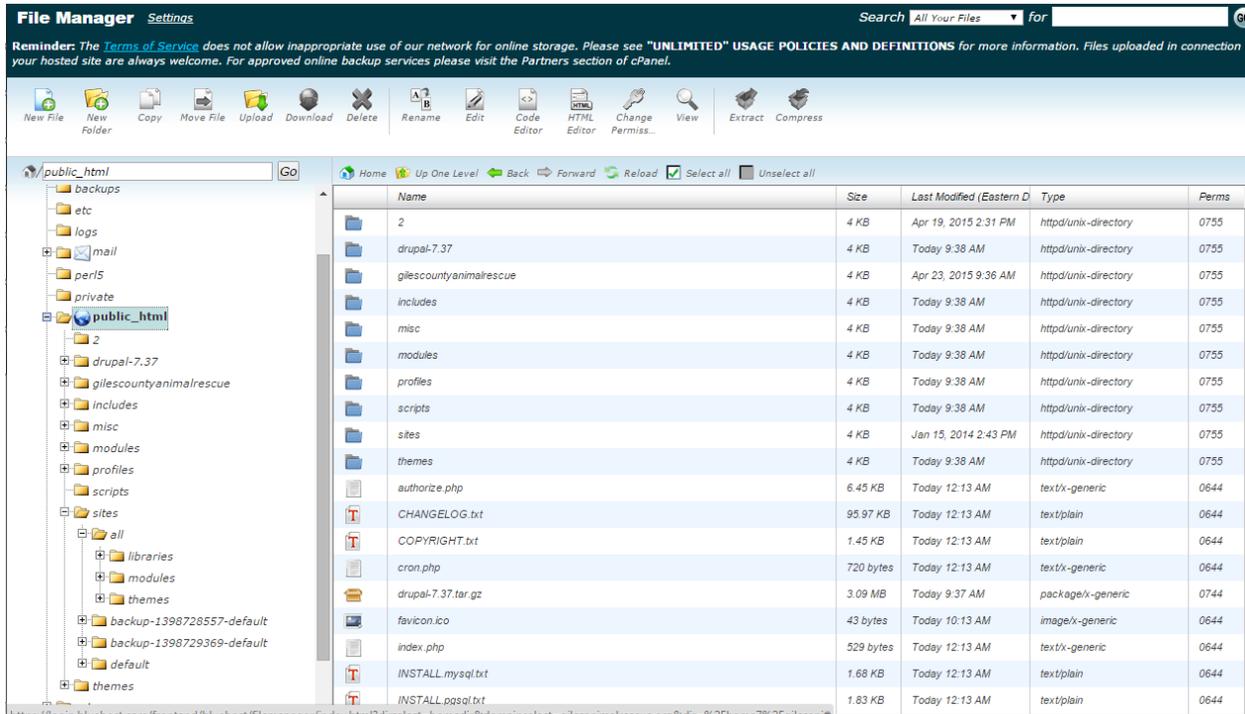


Figure 41. Modules Update Page.

## Updating Drupal Core

Log in to Bluehost then go to the Cpanel and get into the file systems. as shown in Figure 42



The screenshot shows the File Manager interface in cPanel. The left sidebar displays a tree view of the file system, with 'public\_html' selected. The main area shows a table of files and folders within 'public\_html'.

Name	Size	Last Modified (Eastern D)	Type	Perms
2	4 KB	Apr 19, 2015 2:31 PM	http/unix-directory	0755
drupal-7.37	4 KB	Today 9:38 AM	http/unix-directory	0755
gilescounyanimalrescue	4 KB	Apr 23, 2015 9:36 AM	http/unix-directory	0755
includes	4 KB	Today 9:38 AM	http/unix-directory	0755
misc	4 KB	Today 9:38 AM	http/unix-directory	0755
modules	4 KB	Today 9:38 AM	http/unix-directory	0755
profiles	4 KB	Today 9:38 AM	http/unix-directory	0755
scripts	4 KB	Today 9:38 AM	http/unix-directory	0755
sites	4 KB	Jan 15, 2014 2:43 PM	http/unix-directory	0755
themes	4 KB	Today 9:38 AM	http/unix-directory	0755
authorize.php	6.45 KB	Today 12:13 AM	text/x-generic	0644
CHANGELOG.txt	95.97 KB	Today 12:13 AM	text/plain	0644
COPYRIGHT.txt	1.45 KB	Today 12:13 AM	text/plain	0644
cron.php	720 bytes	Today 12:13 AM	text/x-generic	0644
drupal-7.37.tar.gz	3.09 MB	Today 9:37 AM	package/x-generic	0744
favicon.ico	43 bytes	Today 10:13 AM	image/x-generic	0644
index.php	529 bytes	Today 12:13 AM	text/x-generic	0644
INSTALL.mysql.txt	1.68 KB	Today 12:13 AM	text/plain	0644
INSTALL.pgsql.txt	1.83 KB	Today 12:13 AM	text/plain	0644

Figure 42. Files Manager in Cpanel.

Remove all the files under public\_html folder leaving only the sites folder. And unzip the latest core drupal files inside the public\_html. Then run the gilesanimalrescue.com/update.php to update to the latest version of Drupal.

# Lessons Learned

## Timeline

Listed below was our timeline for this project. We completed objectives in groups to be able to show progress to our client, and to keep us on track during the semester.

**Objective Group 1 (2/17):** Begin working with Drupal and update Drupal to version 7.43 on Bluehost.

**Objective Group 2 (3/3):** Work on easy fixes first regarding the navigation menu bar. Tasks include: changing menu item "shelter" to "other resources", adding spay/neuter page to "other resources" drop down list, adding menu item "Contact Us" where "Volunteer" is now (move the contact info from "About us" drop down), changing menu item "About Us" into three drop downs: About Us, Volunteer, and Newsletters.

**Objective Group 3 (3/17):** Focus on more advanced changes like attributes of entries and internal links. Tasks include: dividing lost and found animals into 2 tabs, adding an adoption procedure link on each animal description listed for adoption, adding more data entry prompts when entering an animal entry (breed, adoption fee, neutered, good with kids, etc.).

**Objective Group 4 (3/31):** Install and configure Drupal modules such as Paypal and other site logistics. Tasks include: unpublishing memorials, adding a timer for lost and found animals, finding a solution to streamline donation information.

**Objective Group 5 (4/14):** Polish the site with visual upgrades. All pages need to be consistent with the type of content on the webpage. A new views must be implemented to maximize the number of pictures that can be viewed. Upon selecting an element, the view should expand to give detailed information about the entry. (Expandable views for home/events, animals, memorials)

# Problems

We faced several technical problems while trying to address our clients needs. Her main concerns were with using Paypal for donations and using a grid layout to display elements on her website.

We tried using a PayPal module in her website but was unable to make it work. We spent a lot of time researching alternative ways to work with Paypal. We installed multiple modules which needed to work together to find the fix. But we had to downgrade some of the modules, and as we didn't want to create any security holes we decided to drop the idea. We eventually settled for a solution that doesn't involve using PayPal's API or multiple modules.

We also had trouble finding a grid layout to display all of the news and adoptable animals. Originally these pages were extremely long lists. We needed some way to make each animal viewable without too much scrolling. Grids did not align perfectly and it was hard to find where the css for the grid were stored, instead we used CSS Injector module to override the css of the grid we had before.

Lastly there was also some issues scheduling meetings. Sometimes we would need to reschedule but we had a hard time making a time work for 4 people. We also realized that we needed to give people at least a week notice so that they would have time to respond and mark their calendar.

# Solutions

We added a Webform that precedes the PayPal donation link so that all the necessary information can be sent to the site administrators for processing. This was necessary because Giles Animal rescue encourages its owners to dedicate their donation in honor of a family member or pet. Currently once the Webform has been completed, an email is sent to our client and the conor may proceed into PayPal to make their donation.

We successfully installed a Grid Layout module and used it to display news, events and animal content on the website. Each tile of the grid is able to be clicked on and expanded to reveal additional information. This was a huge concern for our client because the original site contained all pertinent information in-line and you would need to navigate through many pages to view all the content.

# Future Work

We hope to have given Giles Animal County the tools and information they need to continue their mission. We believe our client now has what she needs to continue maintaining the website. We hope that future developers will be able to use our documentation as a starting point for increasing the sophistication of *gilesanimalrescue.com*.

We all have learned a lot while working on this Drupal website. Website management is a possibility for all of us as a career.

# Acknowledgements

**Christine Link-Owens**

"gilesanimalcounty.org"

P.O Box 354 Pearisburg VA, 24134

**Edward A. Fox**

Blacksburg, VA

# References

1. "Drupal." Drupal. Dries Buytaert, n.d. Web.
2. Geller, Tom. "Drupal 7 Essential Training | Video Tutorial from lynda.com." lynda.com | Online video tutorials & training." N.p., 14 Jan. 2011. Web. <<http://www.lynda.com/Drupal-7-tutorials/essential-training/73655-2.html>>
3. "Giles Animal Rescue." <http://www.gilesanimalrescue.org/>. Web.

# Appendix

## 1. How to Use File Manager

To get to the file manager, the user must log into Bluehost and scroll down to click on the File Manager as shown in figure 21.

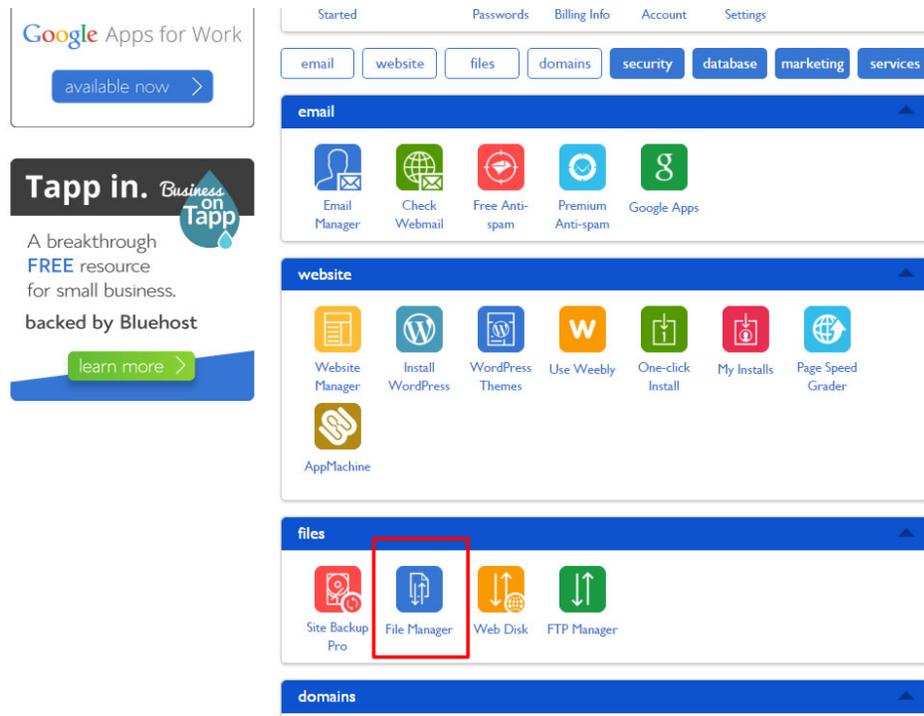


Figure 42. Bluehost main page.

After clicking that the user will be redirected to the file manager shown in figure 43 below.

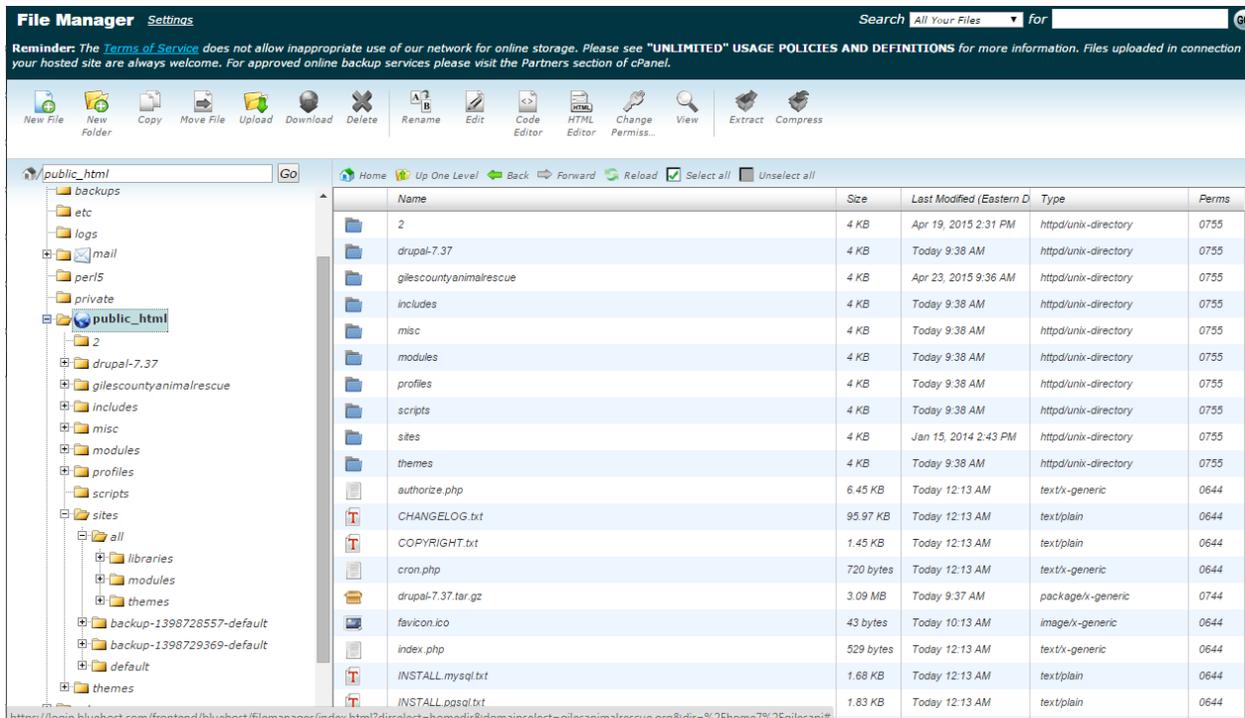


Figure 43. File manager.

All the drupal files are stored in public\_html folder and the site information is stored in the Sites folder inside public\_html. So all the css, php, and images for the site are stored in the Sites folder. That is why when updating Drupal, sites folder should not be touched.

## 2. Test Report

### Lost and Found Tabs

Test	Result
Add new animal contents with status “Lost” and check if it is displayed in Lost page.	Passed
Add new animal contents with status “Found” and check it is displayed in Found page.	Passed
Change existing animal contents to “Lost”, and check if it is displayed in Lost page.	Passed

### Adopt Button

Tests	Result
Add a new animal with status “Adoptable” and check if Adopt button is	Passed

displayed.	
Add a new animal with status other than “Adoptable” and check if Adopt button is not displayed.	Passed
Change existing animal status from “Adoptable” to “Lost”, and check if the animal is moved to the Lost page and has no Adopt button.	Passed
Change existing animal status from “Lost” to “Adoptable”, and check if the animal is moved to the Adoptable Animal page and has an Adopt button.	Passed

### Fields added to Animals

Tests	Result
Add a new animal and enter Adoption Fee, neutered, and good with kids fields, and check if they are displayed.	Passed
Enter those fields to an existing animal (old records) and update them, and check if they are displayed.	Passed
Change those fields on existing animals and check if they are updated.	Passed

### Archive Contents

Tests	Result
Archive currently published memorial entry.	Passed
Publish back currently archived memorial entry.	Passed

### Timeout Functionality for Lost Animals

Tests	Result
Add a new lost animal with expiration date later than today’s date. Check if it is displayed in the Lost Animal page.	Passed
Add a new lost animal with expiration date older than today’s date. Check if it is not displayed in the Lost Animal page.	Passed
Change currently published Lost animal’s expiration date to older date than today’s date. Check if it goes unpublished.	Passed
Change currently unpublished Lost animal’s expiration date to future date. Check if it goes published.	Passed

Add a new Adoptable animal and check if the expiration date entry is disabled.	Passed
Change existing animal status from Adoptable to Lost. Check if expiration date entry is enabled.	Passed
If administrator left expiration date blank, the Lost animal is not displayed.	Passed

### Paypal Donation Form

Tests	Result
Fill out donation form and submit. Check if the notification is sent to the admin's email account	Passed
After clicking "Jump to Paypal", the website is redirected Paypal's donation form	Passed
Click "Jump to Paypal" without filling required sections. Check if error message is shown and asks a donor to enter required sections (Name, address, email, purpose of donation)	Passed
Attach an image file to the donation form, and the site admin can see the image from admin page	Passed

### Grid View

Tests	Result
Check if Adoptable Animals, Lost Animals, and Found Animals pages are in grid format.	Passed
Check if Memorial page is in Grid format.	Passed
Check if News & Event page is in Grid format.	Passed
Check if all the contents are displayed without overlap on Internet Explorer, Firefox, Chrome	Passed
Check if all the contents are displayed without overlap when shrinking and expanding browsers.	Passed