Blog System Requirement

1. System Architecture

This blog system needs to use B/S(Browser and Server) architecture. Blog system will run on a server(can be the same server as MySQL server). User can visit the system with a browser like Chrome and Firefox.

2. User Type

We need 3 user types: visitor, reader and writer.

- Visitor: can be anyone. We don't need to record anything about a visitor. Anyone can open our blog system to read posts(Article).

- Reader: readers need to login to use the system comment function, which means visitor cannot post a comment. If someone wants to post comments, he needs to register and become a reader.

- Writer: can write, edit and delete the posts belongs to him. A user needs to register to be a writer. Writers can post comments.

- Users need user name and password to login. The user name needs to be unique. The password needs to be hashed to MD5.

- You can add other attributes to users if you want, like real name, birthday, register time, avatar, email address and so on.

3. Posts

Post is the core function in blog system. For posts we need to store the information of them:

- post_author: The writer who created the post.

- post_date：the time it is created.

- post_content：content of the post.

- post_title：the title of post.

- post_excerpt：the abstract of the post. Generally, it will be shown in a posts list page.

- post_status：status of posts（publish/draft）

- comment_status：allow comments or not（open/closed）

- post_modified：the last time this post has been modified.

- comment_count：the count of its comments.

- Feature_image: a feature image used to show the main content for the post. Generally, it will be shown in a posts list page to make the list beautiful.

4. Comments

Readers and writers can discuss a post with comment function. For comments we need to store the information of them:

- comment_post_ID：which post does this comment belong to.

- comment_author：the reader or writer who created the comment.

- comment_author_email：the email address of the comment author.

- comment_date：the time it is created.

- comment_content：the content of comment.

- comment_approved：before the comment can be shown on the post page, the author of the post needs to approve it. Only the comment

has status of 'Yes' can be shown on the post page.

5. Tags

A tag is just like a keyword. We can add several tags to a post to tell the visitor the main content of this post.

We need to record the tag names for all the tag. When we wants to add a tag to a post, we make a relationship between the tag and the post.

Writers can create new tags if there is no appropriate tag exists for his posts.

6. Category

A category is a set for the post types. We can put the post with similar content into a category. A post can only have one category.

Writers can create new category if there is no appropriate category exists for his posts.

7. Blog Information

When we build a blog web site with our blog system, we need to add some information about our blog web site, like blog name, blog description. You can add other information to your blog system if you believe it is necessary.

8. Media library(optional)

A media library is use to store all the media for blog system, like images, audio and video. The feature image and the avatar of a user can have relationship with a certain media in this library. We need to store the

information about:

Media_type: image, audio or video.

Media_author: who upload it to the system.

Media_path: the URL of it. On the internet we need URL to access a file like media and document. Use MD5 value to rename it.

Media_time: when is is uploaded to the system.