

## Personal Blog System

### 1. Background

As a programmer, it is natural to deal with code every day and inevitably encounter all kinds of problems and bugs. Therefore, it is necessary to timely record the problems and the methods to solve the problems, both for yourself and for others. Looking up to some god level programmers, such as Wu Hanqing, Lou Tiancheng, Ruan Yifeng and Liao Xuefeng, personal blogs have been built, maintained and updated for many years. So follow the example of various gods and take building a personal blog system as the first simple small project of our group's web development, which not only inherits the tradition, but also encourages ourselves!

Based on collecting various articles and analyzing their content, we import them into our group blog system. After setting labels in the background, the system automatically classifies them and provides keyword search function. After classification, articles can be consulted according to personal preferences.

### 2. Tech stack:

Using Python's Django framework as the back-end development tool, MySQL as the DB support and front-end stack is also about HTML+CSS+JS  
Learn to use Django haystack search engine. Learning whoosh Library:  
Although the performance of the full-text search engine written in pure

Python is not as good as Sphinx, xapian, elasticsearch, etc., whoosh has no binary package, and the program will not crash inexplicably. For small sites, whoosh is enough. Use Jieba: a free Chinese word segmentation package.

Directly use the admin background management provided by Django to add and delete labels and author names, and add and delete articles. Use of Django front-end template inheritance.

JSON and XML data formats, post and get requests, the basic syntax of front-end HTML5, CSS3 and JavaScript and their project practice, and the use of Django front-end template engine.

File path management. JQuery library, bootstrap front-end framework, AJAX simulated registration and login (not implemented in the project), and static file configuration for multimedia and picture files.

### 3. Main functions:

I Search Engines

II Classification and archiving

III Comment application

IV Statistics of reading volume and number of articles

V Page sidebar and tag cloud

Vi back-stage management

#### 4. DataBase Design(currently design)

