

Mailman Project Application

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Self-Introduction

My name is LIU LIANG. I come from China. Currently studying at University of Tsukuba in Japan, I am a second-year master student. My major is Policy and Planning Science.

I began to understand programming in 2015. As the content of college courses, I learned C language, C + +, assembly language and PLC programming language, and completed some simple object. In the undergraduate stage, I used C language to complete the password lock project on the single chip microcomputer. The content of the graduation thesis is to use C + + language and opencv package to establish a realistic model through the images collected by the camera. Transfer the obtained coordinate data to the mechanical arm to complete the function of cargo handling.

I began to understand Python language last year and used Python to complete some data mining objects.

As a beginner, I started to understand the mailman project from the most basic work of setting up a local environment. In this process, I encountered issues and actively solved them. I issued a merger request and was approved. I look forward to making more contributions to mailman.

Theme

What I want to do is: List Configuration Tool.

The function of the list configuration tool is to export the list and configuration of the administrator and generate a JSON file to store them. At the same time, you can also use these JSON files to import the list and configuration in the file into other users. This is a process of converting the server's online data into files for storage, backup and data migration.

So I think it should be added to mailman as a function. On the web page or client interface, the administrator can select the configuration and list to be exported, and then generate the corresponding file. The interface also needs the function of importing files.

Design

I want to use JSON as the format of the list export configuration file, which contains all the properties of the list, domain and website. The configuration file may contain only one or all of the attributes.

There will be some unique attributes in the list, such as list ID, and their format should be considered separately

Of all the attributes, some do not want to be changed, so I want to pay attention to these attributes and set them to read-only format. Some attributes are for internal use only, and they should also be managed in different ways

The default values for the remaining property settings are stored in the configuration file

In the process of import, you also need to distinguish which attributes can be directly overwritten and which attributes need to be queried before operation

Python's JSON module can easily convert information in JSON format into information in dictionary format. Use JSON to store attributes externally and dictionary data to operate data internally. Based on this, we need to design SQL to store the configuration and adapt it to the configuration of the server.

Milestone

June 3

Fully understand the mailman program and summarize the functions and test reports related to the configuration list into files.

June 10

Advance preparation: Communicate with mentors and complete the detailed plan. Describe the task involved in as much detail as possible. Develop detailed weekly milestones.

June 13

Coding officially begins!

July 25

Realize the function of configuration export and import. Submit Phase 1 evaluations

September 4

Realize the database management function and the processing of special variables.

September 12

Submit the final work product.