



Analyze The Intelligent Information Processing Model of Ideological and Political Teaching Material Management System in "Three-Stage Gradual" Teaching

Guolan Liu*, Siyu Cai, Li Zhang, Sujuan Hu

Jiangxi Tourism & Commerce Vocational College, Nanchang, Jiangxi, 330100, China

¹*Corresponding author's e-mail: qwe1570414@163.com

²Author's email: zxcc3215@126.com

³Author's email: qwe65478@126.com

⁴Author's email: asd78965@126.com

Abstract

Analyze the intelligent information processing model of ideological and political teaching material management system is a new teaching structure. Through the ingenious combination of theoretical model and intelligent system, the teaching effect of Ideological and political education has been developed with high quality, and the learning effect has been further enhanced. This paper is based on the analysis and research of the design of the ideological and political teaching material management system in the three-stage progressive teaching, and further analyzes the actual utility of the three-stage progressive teaching and the ideological and political teaching material management system and the model structure of the ideological and political teaching material management system. The mutual sharing and integration of the two makes the management system can effectively improve the course quality and help students further absorb knowledge quickly. In the teaching process of professional courses, modern technology is integrated into the professional supplement, so the corresponding ideological and political teaching material management system is designed. The management system has complete functions, is simple and easy to operate, and can meet the actual teaching needs of Ideological and political teaching. Therefore, this paper mainly verifies the material display, intelligent material management, intelligent material storage, intelligent material extraction and analysis in the ideological and political teaching material management system, which can help users master the operation structure of the ideological and political teaching material management system and complete the ideological and political teaching work more efficiently, quickly and efficiently.

Keywords *three-stage progressive model; Teaching; Material management system; Analysis and design; data processing*

1 INTRODUCTION

With the development and Analyze the intelligent information processing model of ideological and political teaching material management system, it has been widely used in Colleges and universities [1]. The main users of the intelligent Course Ideological and political teaching material management system include teachers and administrators. It is a teaching material management system designed for the needs of Ideological and political teaching [2]. Teachers and administrators can quickly click text, pictures, audio and other teaching materials

when they enter the ideological and political teaching material management system.

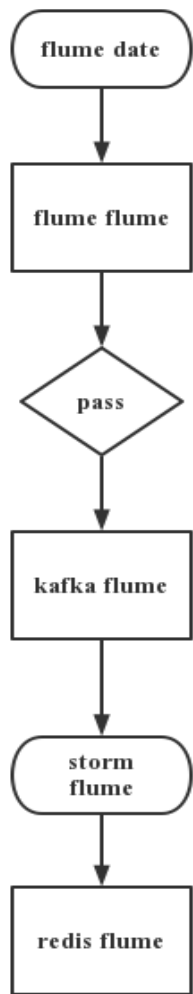


Figure 1: three stage progressive architecture

At the same time, teachers can also carry out personalized collection, upload and download functions to further improve the completion speed of teaching materials [3]. The administrator user can perform content audit, function setting, use authority and other related functions on the ideological and political teaching material management system. Compared with the teacher user, its control is more comprehensive and systematic.

2 SYSTEM TECHNICAL FRAMEWORK

The ideological and political teaching material management system mainly uses Java language and spring boot configuration system to construct the system model, and the system page is mainly used to unify the management of components with different functions [5]. The political teaching material management system mainly includes material display, material intelligent management, material intelligent storage and material intelligent extraction. This paper introduces the functions of these aspects.

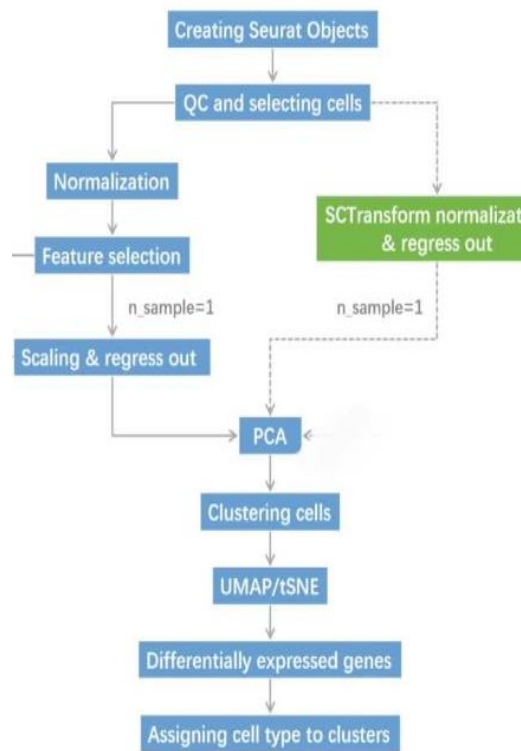


Figure 2: data structure process

The first is the intelligent extraction and analysis of materials. The extraction and analysis of Ideological and political teaching materials is one of the main functions of the management system. Based on the previous material analysis, the management system realizes intelligent data analysis, and automatically processes and stores the collected data information, which can improve the actual efficiency of material processing and the speed of storing political teaching materials [4]. The administrator user can select different analysis software to analyze the data material and set the key points of material analysis, which makes the application of the system more convenient and efficient. complete.

Indication that the errors contained in the report are all true errors, but it may not contain all the errors, Caused the underreporting, The sound indicates that the report contains all the true errors, But may contain false positives, Causing the false positives, completeness: true-complete = false negative-> Misreporting soundness: sound-true = false positive-> False alarm uses a code analysis example to illustrate what overapproximate and underapproximate are:

```
if (input) {x = 1} else {x = 0}
```

The static analysis process is divided into two steps: This step is to abstract the data that the analysis concerns to some easy to operate domain, such as an example of the zero analysis in the course, slightly modified here, for example for the following C program:#include<stdio.h>

```
void main() {
    int arr[3] = {0, 1, 2};
    int x = 10;
    int y = -1;
    int z = 0;
    int a = x + y;
    int b = z / y;
    int c = a / b;
    int p = arr[y];
    int q = arr[a];
    printf("the number is %d", q);
}
```

```
int p = arr[y];
int q = arr[a];
printf("the number is %d", q);
}
```

Because we only care about the arithmetic expression, we extract the arithmetic expression, abstract the expression, and establish an abstract abstraction from "arithmetic expression" to "symbol": abstract value:

- map: v=100 -> +
- map: v=1 -> +
- map: v=-1 -> -
- map: v=0 -> 0
- map: v=e?1:-1 -> unknown
- map: v=w/0 -> undefined
- map: - + - = -
- map: 0 + 0 = 0
- map: + + - = unknown
- map: + / + = +
- map: - / - = +
- map: unknown / 0 = undefined
- map: + / - = -

Then do the overapproximate analysis on the code with the above abstract values and transfer function to get the following results:

```
#include<stdio.h>
void main() {
    int arr[3] = {0, 1, 2};
    int x = 10; // +
    int y = -1; // -
    int z = 0; // 0
    int a = x + y; // unknown
    int b = z / y; // 0
    int c = a / b; // undefined
```

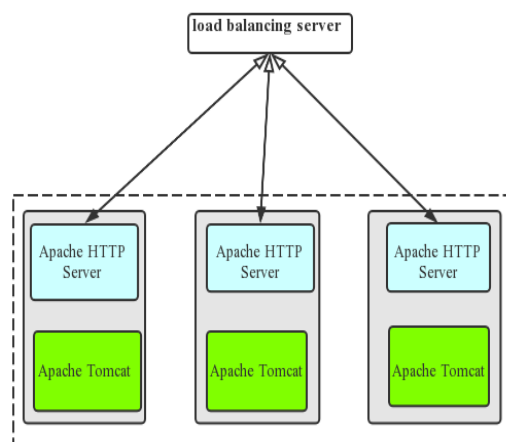


Figure 3: system server

In the ideological and political information management system, users can log in successfully and use the information filtering algorithm to determine users' preferences for mobile data [7]. At the same time, according to the click through rate of users, the system is proposed to help users quickly find appropriate articles [6]. After logging in, the administrator can select a specific crawl, and specify the crawl keyword and the number of crawl items [8]. It can also control the opening and closing functions of the web crawler by setting the task planning value. It can also directly run the crawler on a specific website to climb the idea of teaching materials [10].

When the administrator approves an article of text type, the system automatically extracts keywords from the text and creates corresponding text labels [9]. After logging in, the system will display the statistical information of articles in graphical form, including article type statistics, article quantity statistics, article annotation statistics and other information. The system can automatically build a structure chart according to the relationship between political factors and ideological factors, so as to automatically synthesize a group of political factors and ideological factors. Based on the analysis of the system requirements, the structure and functional modules of the system are designed.

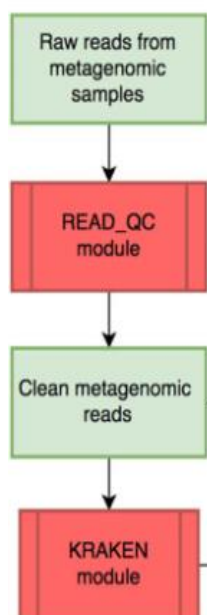


Figure 4: information processing method

Considering the compatibility with the main web browser, the interface model of the system is developed in combination with the design principles of the web interface [11]. MySQL is an open source relational database selection system [12]. Use the visualization tool navicatpremium12 to manage the database. The design of the database system meets the requirements of the third model. Basic database tables include user information table, material information table, collection table, annotation table and crawler information table [13].

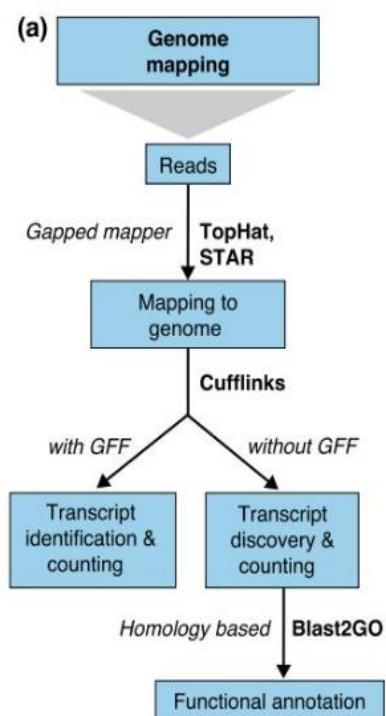


Figure 5: system integration analysis

3 CONCLUSIONS

In the three-stage progressive teaching, teachers can not only fully tap the political teaching structure and teaching model contained in the ideological and political teaching, but also integrate with the three-stage progressive teaching model on this basis, so as to guide students to achieve their own moral cultivation and moral level, and enrich students' Outlook on life, world outlook, values and other aspects. The design of the ideological and political teaching material management system of three-stage progressive teaching can help political teaching organize teaching materials more conveniently and quickly, and carry out intelligent education and teaching at the same time.

Based on the design of Ideological and political teaching material management system, this paper develops an intelligent ideological and political teaching material management system, which can collect, process, recommend and manage ideological and political teaching materials. The Analyze the intelligent information processing model of ideological and political teaching material management system is the integration and innovation of Ideological and political education and modern technology, which can more efficiently promote the quality of Ideological and political teaching, and facilitate users to carry out rapid material collection, query, management and other functions.

Therefore, the design of the ideological and political teaching material management system of three-stage progressive teaching, through the integration and improvement of the different needs of users, can conform to the current teaching development ideas and fully integrate education with modern technology. It makes ideological and political teaching more efficient and intelligent. Users can also continuously improve their own ability in the system and comprehensively improve their comprehensive literacy.

ACKNOWLEDGEMENTS

Key teaching reform project of Jiangxi Province, Project No.: jxjg-21-55-1, name: Research on "three-stage progressive" teaching reform and practice of "higher vocational informatization ideological and political course"

REFERENCES

- [1] Du xueli, wangyingxia, zhengguohua, Wan Guangsheng, dongenhong Reflection on the evaluation standard of Ideological and political teaching quality of health service and management courses [J] Health vocational education, 2022,40 (10): 54-56

- [2] Wang quanqing Research on Ideological and political teaching mode of Chemical Technology Course under the background of "Internet +" [J] Guangdong chemical industry, 2022,49 (10): 211-212+229
- [3] Bai Gengliang, Huadong, Yang Yong Multi dimensional value framework promotes ideological and Political Teaching -- Exploration on Ideological and political construction of pharmacy laws and regulations [J] China pharmaceutical, 2022,36 (05): 586-592 Doi:10.16153/j.1002-7777.2022.05.013
- [4] Wang Keli, Lu Zhao Application of boppps+ Course Ideological and political teaching mode in computer introduction course [J] Software guide, 2022,21 (05): 216-220
- [5] Bian Hanliang, zhaolimin, yuejianwei On Ideological and political teaching from the perspective of professional course teachers -- Taking "basic engineering" course as an example [J] Heilongjiang Education (higher education research and evaluation), 2022 (05): 85-87
- [6] Wang Shuang, liuchunyan, zhaodandan Exploration on the ideological and political teaching approach of high school geography curriculum based on local curriculum resources -- Taking the three provinces in Northeast China as an example [J] Geography teaching, 2022 (09): 35-37
- [7] Liu Wei, Zhong Yan, bin Qiang, xiaoyuhui, Wu Jiahui Design and development of intelligent Course Ideological and political teaching material management system [J] Computer knowledge and technology, 2021,17 (31): 82-84 Doi:10.14004/j.cnkiCkt2021.3112
- [8] Lu bin, With the help of information-based teaching means, create a "three-stage progressive" flipped classroom for automobile repair specialty [J] Vocational Education (zhongxunjian), 2020,19 (02): 56-59
- [9] Tan xiaofeng, Research on talent training mode of business brokerage and agency specialty in Higher Vocational Education -- Also on the connotation of "double track and three-stage progressive" talent training mode [J] Higher Vocational Education (Journal of Tianjin Vocational University), 2018,27 (04): 64-67
- [10] Sun zongzheng, Development and application of multimedia material management library based on Web [J] Science and technology outlook, 2015,25 (32): 8
- [11] Wu fengsheng, Xu Yan, Research on the practice management mode of "breaking up the whole into parts and three stages of progression" based on the alternation of work and study [J] Electronic production, 2014 (21): 183-184 DOI:10.16589/j.cnki.cn11-3571/tn.2014.21.248.
- [12] Hong Ping, yaolifeng Architecture and application of meteorological material management platform based on media resource system [J] Film and television production, 2014,20 (10): 60-62
- [13] Zhang guichun, Analysis on the construction of "three-stage and two track progressive" practical teaching system -- Taking the accounting major of higher vocational colleges as an example [J] Contemporary educational science, 2013 (19): 48-49

Open Access This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

