Design and Application of Ideological and Political Network Teaching System for News Planning Course Based on Javaweb

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Abstract. Education is the foundation of a century-long plan. With the development of new liberal arts as the background, journalism education should go hand in hand with ideological and political education, and integrate ideological and political elements into daily professional teaching to improve students' moral quality and ideological accomplishment. Based on this, this paper constructs a Java web-based ideological and political network teaching system for news planning course with the help of the technical advantages of the Internet and the computer as the development hardware. The overall development of the system is based on Windows10.0 operating system, and the development environment is based on Java. MyEclipse 2018 is selected as the development environment of Java, Tomcat 8.0 is selected as the Web server, MySQL 5.8 is used as the database server, and the project object model (Maven) is used to manage the project structure of the system. The system will use AHP to evaluate the teaching effectiveness. The measured results of fuzzy comprehensive evaluation model show that the construction of network teaching system can effectively make up for the deficiency of general teaching evaluation.

Keywords: news planning · curriculum ideology and politics · network teaching system · JavaWeb

1 Introduction

With the release of China's "Tenth Five-Year Plan" and the outline of the long-term goal in 2035, "building a high-quality education system" has not only become an educational development goal that needs to be adhered to at present and for a long time to come, but also marks that the modernization reform in the field of education has officially entered the fast lane. [1] The teaching method of "Curriculum Ideological and Political Education" has added new teaching contents and provided new teaching methods for the development of ideological and political education in colleges and universities. General Secretary Xi Jinping pointed out at the national symposium on news and public opinion work: "The party's news work is an important work of the party, and it is a major event in governing the country and ensuring national security. Building the cause of

Socialism with Chinese characteristics in the new era cannot be separated from high-quality and high-level news and public opinion work." [2] Journalists are beacons to guide the development of public opinion, bearing a series of important missions such as exposing social hotspots and shaping correct social values for citizens. News planning and communication is an important task to expand the channels of ideological and political education. Therefore, colleges and universities should combine ideological cultivation with knowledge transmission, cultivate students' awareness of the overall situation, guide students to take the development of China as a foothold, pay attention to the development of people's livelihood in China, strengthen the teaching concept of "serving the people" in journalism, and enhance students' practical ability.

2 Development Process

According to the system development requirements and the use requirements of the above key technologies, complete the configuration and deployment of the system development environment. The overall development of the ideological and political network teaching system of news planning course based on javaweb is based on Windows10.0 operating system, with Java as the basic development environment, JDK version requiring 1.8 and above, MyEclipse 2018 as the Java development environment, Tomcat 8.0 as the web server and MySQL 5.8 as the database server. The project object model (Maven) is used to manage the project structure, and Maven chooses Apache-Maven-3.2.1 version. [3] After the installation and setting of the above-mentioned software is completed, the basic framework of the project is built through the Maven Project function under MyEclipse 2018, and attention is paid to the selection and matching of Maven and Java jdk versions during the operation. After the completion, under the generated pom.xml file, various Jar packages required by SSM framework are introduced through code editing, such as Java EE package, Spring framework package, Mybatis package and JDBC package. After the introduction, the controller package, entity object package, mapper package and service package are newly built in the src/main/java directory to further improve the operation control and management of the SSM framework. [4] Through the introduction of the above key technical theories, the overall environment and tool configuration of the network teaching system development are determined, and the technical feasibility of the overall project of the news planning course ideological and political network teaching system based on javaweb is also clarified.

3 Functional Implementation

3.1 Login Side

The system divides users into teachers and students, and provides corresponding system functions according to different roles. In order to maintain the security of users' personal information and reduce the risks and problems caused by VPN account theft, the system will use account input and code scanning to log in [5]. The login QR code of the page will be refreshed after 2 min to ensure the security of the user's account. The implementation code of the system login function is as follows:

```
public void actionPerformed(ActionEvent e) {
    Object source = e.getSource();
    String un = null;
    String pw = null;
    boolean success = false;// Used to determine if the login is successful
    if (source == btnLogin) {
        if (txtUser.getText().equals("") || txtPwd.getText().equals("")) {// Determine
whether the user name and password are entered
            JOptionPane.showMessageDialog(null, "The login name and password cannot
be empty！");
    } else {
    this.connDB();
    try {
```

3.2 Student Side

In order to promote the close relationship between ideological and political education in news planning course and ensure the teaching effectiveness, the system will adopt the teaching mode of flipping the classroom to carry out follow-up activities, and cultivate students' self-learning ability while respecting their subjective wishes [6]. The learning mode of the system is divided into online learning and online practice.

In the homepage of the learning module, student users can choose the excellent ideological and political news courses recommended in the homepage to watch, or they can choose among the categories according to their personal preferences. For some students with poor theoretical knowledge, the system has a special knowledge base for users to use. In the knowledge base, student users can not only learn the basic contents such as the knowledge of current political news writing and the main points of current political news planning, but also consult excellent current political news planning cases [7]. After a rough study, student users can test their knowledge with the help of the system's question bank function. In the question bank, students can choose their own practice modes, such as game mode, challenge mode and reading mode. Students can get corresponding credits after completing their study tasks.

In the online practice module, student users need to evaluate news value, extract news points, draw up news plans, report news topics and a series of operations according to the information released by teachers. In practice, student users can carry out activities in the form of teams, but they need to provide detailed division of labor details to the system [8]. The system will take individual's practical activities as a reference for individual scoring, but the overall scoring standard is still based on team scoring.

Table 1. Comprehensive evaluation results of practice

Target layer	Measures layer	Weighted value	Item score	Score
Practice effect evaluation	Practice participation time	A1 = 0.232	89	11.447
	Practice content completion degree	A2 = 0.227	85	11.342
	Practice project innovation degree	A3 = 0.187	75	4.974
	…	…		

3.3 Teacher Side

Compared with student side, the function of teacher side is more inclined to organize and guide systematic learning activities. Teacher users can use the platform's resource collection function to make innovations in the selection of news planning manuscripts, and dig out the combination of ideological and political elements such as "paying attention to social reality" and "serving the people" with news planning, and take the great love spirit of "loving the party, patriotism and people" as the ideological commanding heights of news topic selection, so as to realize the purpose of "serving the people", improve students' ideological consciousness and establish correct three views for students [9]. Teacher users can also use the data analysis mode of the system to grade students' practical activities, and the system will use the AHP algorithm model to evaluate students' practical results, as shown in Table 1. The formula for calculating the weight value of the practice result is shown in Formula 1, where λ_{max} represents the weight value, A represents the rank hierarchy, and Q ranks the weight vector [10].

$$\lambda_{max} = \sum_{i=1}^{n} \frac{(AQ)_r}{nQ_i} \tag{1}$$

4 Conclusion

The development of Internet technology has provided convenience for all aspects of society. In order to promote the innovation and upgrading of traditional liberal arts, this paper constructs an ideological and political network teaching system of news planning course based on javaweb with the help of the advantages of electronic technology. The system combines ideological and political culture with journalism teaching, and deeply excavates the ideological and political hot spots in news planning. The teaching content of journalism major in colleges and universities has also been updated accordingly, which not only enriches the ways of collecting students' news resources, but also develops students' ability of exploring thinking and grasping news points, and further improves students' comprehensive ability.

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