Research on the Feedback Mechanism of International Students' Teaching Communication and the Establishment of Computer Network Teaching Management Platform

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Abstract. With the acceleration of the internationalization process of domestic universities, more and more foreign students join the ranks of college students. The use of computer network means and platform to strengthen the administration and communication of international students' teaching can promote the exchange and feedback of info, and ameliorate the level of education administrative of international students. Based on this, this paper first analyses the concept and connotation of computer network education administrative platform, then studies the design of computer network education administrative platform, and finally gives the application of teaching communication feedback administration platform for international students.

Keywords: Feedback Mechanism, International Students, Network Education administrative Platform

1. Introduction
With the iterative progress and maturity of computer tech, it has been widely and deeply studied and popularized in many fields, especially in the application of university education administrative, which greatly promotes the amelioration and optimization of education administrative level. On the other hand, with the deepening of international exchanges in economy, trade and culture, more and more foreign students in the field of education join domestic universities, which make the situation of university education administrative more complex [1]. In this context, the amelioration the level of education administrative, especially the administration of international students' teaching, has become one of the focuses and hot spots of university education administrative research. The use of computer network means and platform to strengthen the administration and communication of international students' teaching, promote the exchange and feedback of info, has important promotion value for improving the quality of education administrative.

The application of computer network and info tech in education administrative can timely understand and monitor the life, learning and thinking mode of college students, especially international students, and promote the development and evolution of education administrative towards internationalization and diversification [2]. Through the computer network platform, it could not only collect and use all kinds of comprehensive resources, but also effectively overcome the shortcomings of the traditional teaching mode, such as the info flow is not smooth, the info access
channel is single, and the interaction between teachers and students is not strong. Through the establishment of computer network education administrative platform, the organic integration of several functional modules as shown in Figure 1 is realized, so as to ensure the efficient flow of info resources and meet the needs of teaching communication and feedback of foreign students.

![Figure 1. Function module of computer network education administrative platform](image)

In addition, the info-based teaching communication and feedback mechanism of most university education administrative platforms are not perfect, which is difficult to meet the needs of real-time tracking and rapid analysis of the learning status of foreign students, resulting in the learning experience and learning quality of foreign students is difficult to effectively ameliorate. This requires the university to actively explore the interactive mechanism of the network education administrative platform, build an efficient info communication and feedback mechanism, so as to realize the effective adjustment of the status of foreign students [3]. Based on the analysis of the state and behavior characteristics of foreign students, an intelligent info feedback process is established to realize the clarity of the content and rules of foreign students' teaching communication feedback, which plays an important role in promoting the teaching and administration level of foreign students.

In short, the establishment of teaching communication feedback mechanism in line with the actual needs of foreign students is an important part of improving and ensuring the administration level of foreign students [4]. The modern network teaching based on computer network tech and multimedia tech can promote the flow and sharing of communication and feedback info resources, and provide info enlightenment and feedback platform for teachers, international students and managers, so that international students can better assist their own learning and life with the help of this platform. Therefore, it is of great practical value to study the feedback mechanism of teaching communication and the establishment of computer network education administrative platform.

2. The concept and connotation of computer network education administrative platform

2.1. The concept of computer network education administrative platform

Computer network teaching takes computer network as the carrier of transmitting teaching info, combines computer network tech with multimedia tech, makes learners change from passive receiver of knowledge to active builder of knowledge, and makes education administrative more convenient. Computer network education administrative platform has changed the traditional linear info transmission mode of education administrative into a nonlinear autonomous learning mode which breaks through the time and space constraints. The essence of multimedia resources sharing network teaching is to realize teaching and administration through the transmission and sharing of multimedia network teaching info resources [5]. The multimedia system based on network integrates multimedia tech and network communication tech organically, so as to expand the function of stand-alone system. In addition, the human-computer interaction and info processing of the computer network education administrative platform realize the online multimedia info transmission and the sharing of multimedia info resources, and construct an efficient teaching communication feedback mechanism.

2.2. The function of computer network education administrative platform
The application of computer network education administrative platform can make the teaching activities of international students not limited by time and space, and enable international students to carry out academic exchanges and seminars through the network and carry out collaborative creation with the help of software tools [6]. Secondly, with the help of the platform, it can support international students to communicate, share learning space, share application software and create collaboratively. In addition, the education administrative info platform for international students can also enable teaching activities to carry out asynchronous and synchronous teaching at the individual, group and other levels according to students’ personalized characteristics and diversified needs, thus giving higher freedom to the education administrative process. The unlimited time and space of online teaching can break through the limitation of objective factors on a larger scale.

2.3. Communication and feedback features of computer network education administrative platform

The communication and feedback characteristics of the computer education administrative platform are mainly reflected in the education of foreign students and the computer system, the interaction between foreign students and teachers, and the interaction between foreign students, as shown in Table 1 below. With the help of the three dimensions of teaching communication and feedback mechanism mode, it can analyze and guide the learning and life problems of foreign students. In addition, with the help of this model, it can promote the realization of the team spirit and problem-solving ability of international students, and realize the effective guidance and assistance of the actual difficulties of international students.

| Interactive links | Carrier                     | Functions                                  |
|-------------------|-----------------------------|--------------------------------------------|
| Student-computer  | Courseware, teaching environment | Problem analysis and guidance              |
| Student-teacher   | Multimedia environment      | Teaching aid and problem guidance          |
| Student-student   | Multimedia network          | Collaborative learning and team spirit cultivation |

Table 1. Communication and feedback features of education administrative platform

3. Design of computer network education administrative platform

3.1. Construction requirements of computer network education administrative platform

The computer network education administrative platform based on the feedback mechanism of international students' teaching communication uses the network info tech means and carriers, combined with the relevant auxiliary of education theory to build a network teaching environment, and achieve a good support for teaching activities [7]. Teaching theory and info will be transformed into activities that can produce practical value, and a platform carrier will be established for overseas students to carry out network application. Secondly, the teaching communication network administration platform for international students can realize the release of courses and the administration of teaching, such as the material guarantee of info resources and wisdom resources. In addition, through the establishment of open learning community, it could realize the ecological material guarantee of learning, and solve the centralized exchange and administration of activity platform resources. And it can realize the info exchange without the limitation of time and space, and organically integrate the educational thought.

3.2. Construction principles of teaching communication feedback administration platform

The construction of teaching communication feedback administration platform should first be based on the principles of prominent main objectives, independence of objectives and favorable decision-making, and ensure the consistency of the indicators with the requirements of the superior large-scale system when determining the specific quantitative indicators [8]. Secondly, it should ensure the organic unity of the advanced and feasible indicators and leave confidence intervals. In addition, the
network tools are used to fully evaluate the functions and benefits of the platform, the data processing model is established, and the evaluation module of teaching communication feedback administration is established to ensure the optimal scheme.

3.3. Design of teaching communication feedback administration platform
First of all, based on the core of web education info service, the platform has the advantages of real-time interaction and convenient access to info [9]. Secondly, at the core tech level, with the help of network database tech, the automation of data retrieval, query and download is realized, which is convenient for the circulation and sharing of educational resources. In addition, according to the key links of teaching and administration of foreign students, advanced teaching ideas are used to create a superior environment for the independent learning of foreign students and the amelioration of teachers' teaching efficiency. The architecture of teaching communication feedback administration platform is shown in Figure 2. The system adopts B/S structure and uses web as the application presentation layer, which is easy to deploy. Users do not need to install client programs. The system adopts Net tech and realizes user logic and data access through web service middle layer. The system database uses SQL Server 2005 to ensure the security and high speed of data access.

![Figure 2. The architecture of teaching communication feedback administration platform](image)

4. Application of teaching communication feedback administration platform for international students

4.1. Input elements of the administration platform of teaching communication and feedback for international students
In the intelligent feedback module system of foreign students' teaching communication feedback administration, the info acquisition module establishes the organic relationship between foreign students' learning behavior and characteristics by receiving foreign students' characteristic info, behavior info, environmental variables and learning style [10]. Secondly, through the comprehensive processing of system input info, the adaptive adjustment of info feedback is realized. In the application process of teaching communication and feedback computer education administrative platform for international students, the input of characteristic info of international students mainly includes the general characteristics of international students, knowledge base, cognitive ability, cognitive structure, learning motivation, learning style, learning interest, learning emotion and the character and will of the students to obtain communication feedback.

4.2. Intelligent output of teaching communication feedback administration platform for international students
The output info of the teaching communication feedback system for foreign students based on the computer network education administrative platform is an adaptive learning platform, mainly including explicit output and implicit output. Among them, the display output will provide some suggestive info to foreign students, while the implicit output mainly provides navigation, info presentation and autonomous practice to meet their adaptive learning and life. In addition, with the help of the intelligent communication feedback platform, the effective interaction and communication
between foreign students and teachers, between foreign students and the system platform can be realized.

5. Conclusion
In summary, the communication and feedback info platform supported by computer network tech and multimedia tech can realize the flow and sharing of resources, provide info enlightenment and feedback for teachers, foreign students and managers, and enable foreign students to better assist their own learning and life with the help of the platform. Through the analysis of the concept and connotation of computer network education administrative platform, this paper studies the communication and feedback characteristics of computer network education administrative platform. Through the research on the design of computer network education administrative platform, this paper analyzes the construction requirements and design principles of computer network education administrative platform. Through the application analysis of the feedback administration platform for international students' teaching communication, this paper studies the input and output elements of the feedback administration platform.

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