

## **Research on Information Construction of College Student Management under the Background of Internet**

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**Abstract.** Guiding and promoting students' all-round growth is not only the essential pursuit of the innovation of college students' management, but also the basic aim of the information construction of college students' management. In the context of "Internet plus", the management of college students should be based on the needs of school-based management and the needs of teachers and students, from the aspects of digital learning, online courses and educational management information, and by exploring the information-based construction mechanism suitable for university student management, we can ensure that students fully adapt to the new internet background, forming a high-quality education system.

**Keywords:** Internet, University, Student management, Information construction

"Internet thinking" is a new way of thinking that integrates practice in the internet age. "Internet + education" can not succeed only by mending the traditional educational model, but under the support of information technology to promote education process reengineering, using the internet thinking to reform schools, to explore new ways of education service supply.

### **1 THE PROBLEMS FACED BY THE INFORMATION CONSTRUCTION OF UNIVERSITY STUDENT MANAGEMENT UNDER THE BACKGROUND OF INTERNET**

From the current impact of information technology on students' growth, on the one hand, teachers use information technology to display the contents which are far away from students' time and space or can not be visually presented in their lives through multimedia, on the other hand, students can make use of information technology to study on their own, by learning online courses, using the Internet to collect information, etc., continuously improve their learning ability and promote their better growth. Therefore, when we implement information-based and school-based student management, we should construct the system from the aspects of learning demand, learning requirement, learning content and learning effect of every student: We should not only construct the curriculum resources of Students' learning, but also design the learning strategy; We should not only construct the guidance of learning activities, but also design the evaluation of learning effect, so as to construct the student information management platform and implementation mode.

The future teaching will break the fixed arrangement of class hours, cross the boundary between disciplines, rebuild the curriculum system around students' real life, and form a personalized learning support system, providing every student with a customized education will be the dominant trend in future school reform. With the disintegration of the traditional teaching structure, "Internet + education" will shift from the emphasis on teaching to the emphasis on students' information. Technology-supported instruction will no longer be based on teachers' subjective experience, but rather on a wealth of objective data. At present, some schools have begun to try to use the learning analysis technology to improve teaching, analyzing the classroom discussion pattern and the style of teacher-student interaction based on the information of students' speech, teachers' speech and teacher-student dialogue, the analysis results are presented in the form of visual graphs to help teachers reflect on teaching and improve classroom teaching practice.

With the development of the times, the management mode and idea of colleges and universities should be innovated and reformed with the times. In the past, the relationship between the educator and the student was antithetical, the educator was superior and incontrovertible, the student listened silently and had no opinion, and the teacher's management of the student was one-way. But with the advent of the Internet Information Age, the mode of

management of students by educators has gradually changed, the management of students develops from the life around the students to the life circle of the students and the self-management of the students.

Problems in student management of information technology. With the rapid development of information technology, it is easy to manage the students, but the problems exposed at the same time are worth discussing. Information is also the network, in the network students can virtual themselves, whether it is identity, personality, ideas, which makes it difficult for managers to grasp the actual situation of students. The liberalization and open environment in the network make some students with poor self-control addicted to the virtual network. At the same time, nowadays, most of the conversations between student administrators and students use virtual networks, which also reduces the students' real communication ability in a disguised way. At the same time, it also brings many new problems to the management of students, such as the authenticity of asking for leave, the question of whether or not it's really in school is also up for debate. With the popularization of information technology, great changes have taken place in the interpersonal communication among students. The most important link in interpersonal communication: face-to-face communication is gradually reduced, which also makes students' communicative ability is constantly weakening, the relationship will gradually fade. Because the information network is not perfect, some bad speech is also greatly affecting the student life idea establishment, this also proposed the very big challenge to the manager.

In order to make the management of college students develop healthily and steadily in the era of big data, it is necessary to follow the trend of the times and strengthen the construction of information, however, most colleges and universities in China pay attention to the quality and effect of teaching, pay less attention to the information construction of student management, and lack strict management mechanism, this makes some universities even strengthen the information construction system of student management work, but because the management is not in place or neglects supervision and inspection, some data and information can not be effectively used, and even less realistic significance, causes the informationization construction flow to be one kind of form.

## **2 THE SIGNIFICANCE OF INFORMATION CONSTRUCTION OF COLLEGE STUDENT MANAGEMENT UNDER THE BACKGROUND OF INTERNET**

Learning analysis technology based on big data will be the driving force of the deep change in education. Teachers can use new techniques to measure students' cognitive and learning characteristics, evaluate students' superior potential and the best way of learning, and design personalized learning push programs, to explore different teaching strategies under different technical conditions, teach students according to their aptitude and ability, promote the deep integration of information technology and education and teaching, and help students to achieve comprehensive and individual development. Make student management easier. With the coming of Internet age and the innovation of Information Technology, the management of college students has become simple and fast. Information sharing is no longer difficult, schools can publish a lot of information directly on the Internet, students who need to go directly to the Internet to find, so students can be faster to understand the information released by the school, to make it easier for the school to manage students.

Schools will break away from a rigid structure: a flexible and flat structure that organizes learning according to students' abilities rather than their age; and flexible teaching arrangements based on students' individual needs, instead of following the traditional semester or fixed curriculum structure, breaking the existing educational system, strengthening the link between different sections, and better meeting the independent development needs of contemporary students, to provide students with a more selective, personalized, and accurate education.

The organizational structure and management style of the school will also change. Students will be more involved in the organization and management of the school. All school affairs should fully respect students and encourage students to manage themselves, cultivate students to become a sense of the main body, moral sentiment, national consciousness and the world spirit of sound citizens. Improve the school governance structure, increase the

participation of parents and communities in school decision-making, promote the school from closed to open, school and society, family form a positive interaction, jointly create a multi-dimensional and integrated education space for students.

Through constructing intelligent classroom, we can provide students with self-study content and application service, and realize the whole learning process of "preview, class, homework and review". Fragments of time to achieve mobile learning, digital resources accurate push, interactive learning timely feedback, intelligent data analysis, and so on, effectively reduce the burden on students.

To actively integrate into the new internet scene, the construction of online classrooms, to support the PC and mobile wechat students online learning, students can conduct course-by-course video resources retrieval, view the detailed introduction of the course, the course chapters, the course evaluation and other information, students can view the learning tasks issued by the teacher, students can watch the course video, students can carry out the course synchronization test questions, and can ask questions to teachers and students.

### **3 THE CONSTRUCTION STRATEGY OF COLLEGE STUDENT MANAGEMENT INFORMATIZATION UNDER THE BACKGROUND OF INTERNET**

#### **3.1 Construction of information campus data center**

In the university student management information platform, the INFORMATIONIZATION campus data center is among them basic, also is the system, the platform develops the data exchange center, at present, in the market commonly used database has ORICAL, ACCESS, MYSQL, one of the most commonly used is ORICAL, which is a universal b/s information base that can meet the needs of various types of distributed operations. Through the information campus data center, can provide database storage and exchange services. In the implementation of the data center, there are several steps, first, connect the data center with the campus platform; second, send the related information of student management to the platform and application system through the data center; For the internal information of student management work, the information is shared by means of information interaction. In the information-based campus data center, it also includes the teaching management system. The construction of the system should highlight the characteristics of colleges and universities, absorb various opinions, and provide support for "teaching resources management" and "teaching administration management", in addition to the simple query results, elective courses, but also cover the school management of various elements. For the construction of information campus data center, we should follow the principle of top-level design, apply unified standards, restrict the work of planning and management, and construct data center according to the needs of students in the information age, in the process of construction, we should stress the principle of systematicness and scientificness, avoid the problem of isolated information island, and improve information security in an orderly way. Therefore, colleges and universities should pay attention to the training and education of student managers, so that they can establish the concept of information management and master the use of data center and Information System. At the same time, do a good job of supervision of student management personnel, through the work, attendance, rewards and punishments, and other ways to improve their work efficiency and enthusiasm.

#### **3.2 Implementation of unified identity in digital campus**

In the university student management information platform, the unified identity authentication is one of the key links, in the platform, including the student's basic information, each student, all exist separately with the electronic role, form the audit mechanism (CA) and the public-key infrastructure, use SSL to ensure the smooth implementation of platform identity audit, to ensure the effective transfer of student information. Unified identity authentication includes several important elements:

Identity Control: manage the students, control the data in the operating system, data portal, so that the students can get the required information and information in time and accurately;

Audit Control: Log-in method using a single-point log-in, after the completion of the operation, by the operating system to check the data information, audit.

For the application, the use of information, identity audit to deal with the integration of various services in the web site, so that students can access the corresponding data services.

### **3.3 Implementation of the unified information portal**

When dealing with the data portal platform, we should not only consider the needs of students, but also the requirements of University R & D personnel and teaching staff, and manage all procedures and information in the system in a unified way, giving full play to the value of programs and information, through information portals and unified identity authentication, teachers and students can understand the program data in colleges and universities, and realize the seamless connection between various applications and services, will "user", "authority", "procedure" and so on summary, constructs the perfect data system maintenance management mechanism, provides the more intimate, the high-quality management service for the student. In the implementation of the information platform, students can make a systematic management of various basic information, build a systematic and targeted management plate, students can facilitate the inquiry, statistics, management of related information, and batch maintenance of information, seamless connection between the admission system and the management system, in the platform, there is also the expansion of functional analysis, support for the photo format of information processing, can collect student photo information, the scientific introduction management content, provides the management basis for the examination registration, the photograph import and so on.

### **3.4 Maintenance of data information**

The design of information-based student management platform in colleges and universities makes the operation and development of information-based colleges and universities get a brand-new promotion. In the daily data security, it is necessary to base on the program security. If the program has a problem, the stability of the system will be greatly affected. In the data information maintenance, version control method is used to improve the information security, in the running state, the use of version checking procedures to check, if found problems in the procedures, need to be corrected in a timely manner, to ensure the normal operation of the procedures. And build an automatic backup system, in the platform and system, build the corresponding database, also need to be equipped with the database automatic backup system, the backup file centralized, and set up the Operation Authority control system, assign permissions to operators.

## **4 CONCLUSION**

The application of information technology in the management of college students has changed the traditional complicated and disorderly manual management, and made the management nature to coexist with management and service. Information management is advanced, efficient, effective, spatial and diverse. It eliminates the limitation of time and space, effectively increases the two-way communication between teachers and students, and directly interacts through the network, it saves the tedious steps of problem solving, simplifies the procedure to a certain extent, and improves the efficiency obviously. It is not only beneficial to the progress of the management of college students, but also beneficial to the students' timely grasp of their own learning dynamics, information management is bound to become the trend of college management.

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