

Construction of Personal Information Service System--- Higher Education Student Management Information System

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Abstract: With the rapid development of technology, the construction of personal information service systems has become an indispensable part of various fields. In this context, the emergence of higher education student management information systems has brought tremendous changes to higher education management. This article will focus on the theme of "Higher Education Student Management Information System", explore its characteristics and keywords, in order to attract widespread attention and in-depth discussion from readers.

Keywords: personal information; system construction; higher education student management information system

1. Introduction

In the 21st century, the rapid development of information technology has brought new opportunities and challenges to higher education. In order to better address these challenges and improve the quality of education, major universities have begun to build efficient student management information systems. By introducing advanced information technology, real-time, accurate, and comprehensive management of student information can be achieved, thereby improving the level of educational management.

2. Characteristics

2.1. Information Management

The student management information system adopts advanced information technology to digitize student information and achieve comprehensive and full process management of students. By efficiently processing massive amounts of data, the work efficiency of the education management department has been improved.

2.2. Real Time

By updating students' learning and living conditions in real time, educational managers can quickly understand their needs and problems, and take corresponding measures in a timely manner. This is conducive to mobilizing students' learning enthusiasm and improving the quality of education.

2.3. Convenience

The student management information system realizes the sharing of information resources, allowing students and teachers to query relevant information anytime and anywhere. This provides great convenience for students' learning and teachers' teaching.

2.4. Security

The student management information system adopts strict data protection measures to ensure the security of student personal information. Meanwhile, by setting different permissions, it is ensured that only authorized personnel can access relevant information.

3. Keywords

3.1. Information Technology

As the cornerstone of student management information systems, the application of information technology is the key to system construction. By introducing advanced information technology, real-time, accurate, and comprehensive management of student information can be achieved [1].

3.2. Database

The database of the student management information system is the core part for storing student information. By efficiently processing massive amounts of data, we provide decision support for educational managers.

3.3. Network Security

In the process of system construction, network security is an important link that cannot be ignored. By implementing strict data protection measures, ensure the security of student personal information.

3.4. Education Management

The student management information system has changed the traditional education management mode and improved the level of education management. Education managers can use the system to real-time understand the learning and living conditions of students, identify problems in a timely manner, and take corresponding measures.

The characteristics and keywords of higher education student management information systems indicate that the application of information technology in the field of education has broad prospects. By building an efficient student management information system, the quality of education can be improved and the level of educational management can be enhanced. However, in the process of system construction, we also need to pay attention to network security and other issues to ensure the personal information security of students. Only in this way can we truly achieve the widespread application of information technology in the field of higher education.

4. The Necessity of a Personal Information Service System

With the continuous advancement of informatization, the construction of personal information service systems has become an indispensable part of various fields. Especially in the field of higher education, the construction of student management information systems is of great significance for improving education quality, optimizing student services, and promoting the sharing of educational resources. This article will focus on the theme of "Higher Education Student Management Information System" and explore it in depth from multiple perspectives, aiming to attract the attention and discussion of readers [2].

Firstly, the construction of student management information systems is an inevitable trend in the development of higher education. Under the traditional student management model, schools often need to invest a large amount of manpower, material resources, and financial resources to maintain cumbersome paper archives and data records. With the rapid development of information technology, this management model can no longer meet the needs of modern education. The introduction of student management information systems has enabled

the automation, digitization, and intelligence of academic management in schools, greatly improving work efficiency and saving a lot of resources for the school.

Secondly, the construction of a student management information system is beneficial for improving the quality of education. Through this system, schools can comprehensively manage and monitor students' academic performance, course selection, graduation internships, and other aspects, thereby better evaluating the quality of education and teaching, identifying problems, and making timely improvements. In addition, the student management information system can also provide teachers with real-time teaching feedback, helping them understand the learning status of students and develop more reasonable teaching plans.

Once again, the construction of a student management information system helps optimize student services. Through this system, students can conveniently check their personal academic situation, course selection information, grade records, etc., thereby better planning their learning career. At the same time, the student management information system can also provide a convenient information publishing platform for schools, allowing students to timely understand important information such as school dynamics and recruitment information, and improve the communication efficiency of the school.

In addition, the construction of a student management information system also helps to promote the sharing of educational resources. Through this system, schools can exchange and share student data with other universities, thereby promoting the popularization and dissemination of high-quality educational resources. In addition, with the support of the student management information system, schools can carry out new educational models such as distance education and online learning, benefiting more students.

However, in the process of constructing personal information service systems, we cannot ignore the existing problems and challenges. For example, how to ensure the personal information security of students, how to ensure the stability and scalability of the system, etc. Therefore, in the process of promoting the construction of student management information systems, we need to constantly summarize experiences and lessons, and actively respond to various challenges [3].

In short, the construction of personal information service systems has important practical significance in the field of higher education. By building an efficient student management information system, we can optimize the allocation of educational resources, improve the quality of education, and create a better environment for the growth and development of students. Let us work together to promote the prosperity and development of higher education.

5. Construction of Higher Education Student Management Information System

With the continuous development of society, people's demand for personal information services is increasing day by day. In the field of higher education, the construction of student management information systems is particularly important. This article will explore the construction of a higher education student management information system from four aspects: the concept, construction significance, construction content, and implementation strategy of a personal information service system.

Firstly, a personal information service system refers to a system that centers around individuals and provides various information services to them through information technology means. In the field of higher education, student management information systems are an important branch of personal information service systems. It collects, integrates, and analyzes information from various aspects such as students' learning, life, and social practice to provide personalized information services for students, thereby improving the quality of education and enhancing student satisfaction.

Secondly, the significance of building a higher education student management information system is mainly reflected in the following aspects:

5.1. Improve the Efficiency of Educational Management

Through the student management information system, efficient integration of student information can be achieved, reducing repetitive work and improving educational management efficiency.

5.2. *Optimize the Allocation of Educational Resources*

By analyzing student information, educational resources can be reasonably allocated to improve the quality and efficiency of education.

5.3. *Improve Student Satisfaction*

By providing personalized information services to students, they can meet their personalized needs and improve their satisfaction.

5.4. *Promote Educational Equity*

By managing information for special groups such as impoverished and outstanding students, we can ensure fair educational opportunities and promote educational equity.

6. The Construction Content of the Higher Education Student Management Information System

6.1. *Build a Basic Database*

Establish a basic database by collecting personal information, learning information, life information, and other data from students.

6.2. *Build a Data Analysis System*

By analyzing the data in the basic database, we aim to explore the personalized needs of students and provide them with personalized information services.

6.3. *Build an Information Service System*

Based on data analysis results, provide students with various information services, such as learning guidance, life counseling, career planning, etc.

6.4. *Build a Security Guarantee System*

Ensure the security of student personal information and prevent information leakage and abuse [4].

Finally, implementing strategies is the key to ensuring the success of the construction of higher education student management information systems. This article proposes the following implementation strategies:

- (1) Develop clear construction goals and plans.
- (2) Strengthen the cultivation and introduction of information technology talents.
- (4) Increase investment to ensure that project construction funds are in place.
- (3) Strengthen supervision to ensure the quality and progress of project construction.

In summary, the construction of a higher education student management information system is of great significance for improving education quality, enhancing student satisfaction, and promoting educational equity. Through the construction of basic databases, data analysis systems, information service systems, and security assurance systems, personalized information services can be provided to students. In the implementation process, clear construction goals and plans should be formulated, the training and introduction of information technology talents should be strengthened, investment should be increased, and supervision should be strengthened. We believe that with the joint efforts of all parties, the construction of a higher education student management information system will definitely achieve complete success.

7. Several Suggestions

With the rapid development of technology, the construction of personal information service systems has become an essential part of various fields. In the field of higher education, the establishment of student management information systems is of great significance for improving education quality, optimizing educational resources, and enhancing student satisfaction. Therefore, this article will propose some suggestions for the construction of higher education student management information systems, combined with big data

technology, in order to promote the vigorous development of higher education.

Firstly, it is necessary to clarify the construction goals of the student management information system. The system should be centered around serving students, achieving real-time updates and management of student personal information, and providing convenient functions for students to query, modify, and maintain. At the same time, by building a comprehensive management system, comprehensive analysis and evaluation of students' academic performance, course selection, rewards and punishments, and other aspects can be carried out, in order to facilitate educational managers to make more scientific and reasonable decisions.

Secondly, attention should be paid to the integration and sharing of data. In the construction process of the student management information system, it is necessary to effectively integrate various types of student information and achieve data interconnection. This can not only improve the efficiency of information resource utilization, but also avoid the generation of duplicate entries and incorrect information. In addition, by integrating data with other departments and systems on campus, resource sharing can be achieved, providing students with more comprehensive services [5].

Once again, we need to introduce big data technology. By utilizing big data technology, it is possible to mine and analyze data on various aspects of students' learning, life, and social interactions. This will help education managers to have a deeper understanding and grasp of the needs of students, thereby providing more targeted services for students. For example, by analyzing data on students' interests, learning habits, etc., personalized course recommendations, career planning, and other aspects can be provided to students.

In addition, attention should be paid to the security and privacy protection of the system. In the construction process of the student management information system, it is necessary to ensure the security and integrity of data, and prevent data leakage, loss, or malicious tampering. At the same time, it is necessary to respect the privacy rights of students, strictly restrict access to data involving personal privacy, and encrypt student personal information.

Finally, it is necessary to strengthen the continuous optimization and upgrading of the student management information system. With the continuous development of higher education and the changing needs of students, the student management information system also needs to be adjusted and improved accordingly. Therefore, in the process of system construction, attention should be paid to flexibility and scalability, and the system should be regularly maintained and updated.

In summary, in the context of the rapid development of information technology, the construction of higher education student management information systems has become an important way to improve the quality of education. By combining big data technology to achieve data integration and sharing, and paying attention to system security and privacy protection, we will be able to build an efficient and intelligent student management information system, injecting new vitality into the development of higher education [6].

Funding

Not applicable.

Author Contributions

Conceptualization, X.K.; writing—original draft preparation, X.K., X.X., Y.X. and G.K. All of the authors read and agreed to the published the final manuscript.

Institutional Review Board Statement

Not applicable.

Informed Consent Statement

Not applicable.

Data Availability Statement

Not applicable.

Conflicts of Interest

The authors declare no conflict of interest.

References

- 1 Luo Z, Jiang Z. Design and Implementation of Fixed Asset Management System. *China E-commerce* 2014; (12): 25–29. DOI: 10.3969/j.issn.1009-4067.2014.12.068.
- 2 Chen G, Liu L. Development of an Information Management System for College Student Cadres. *Computer Knowledge and Technology* 2012; (15): 31–35. DOI: 10.3969/j.issn.1009-3044.2012.15003.
- 3 Jiang S. Research on the Management of College Student Cadres and the Construction of a Community between Teachers and Students. *The Road to Success* 2022; (17): 18–22. DOI: 10.3969/j.issn.1008-3561.2022.17.005.
- 4 Liu Q. Design and Implementation of an Internship Management System for College Students. *Science and Technology Outlook* 2016; (2): 36–40. DOI: 10.3969/j.issn.1672-8289.2016.02-245.
- 5 Ji Q. Exploration of Student Management in Vocational College. *School Party Building and Ideological Education (Higher Education Edition)* 2010; (12): 45–50. DOI: 10.3969/j.issn.1007-5968.2010.12.039.
- 6 Liu Z. Practice and Exploration of the Talent Cultivation Model Combining Engineering and Learning in Vocational Colleges. *China Higher Education Research* 2007; (8): 25–30. DOI: 10.3969/j.issn.1004-3667.2007.08.018.

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