

# *Research on the Networking of Teachers' Personal Websites and Educational Information*

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**Abstract:** With the vigorous development of education in China, more and more advanced technologies have been applied in the field of education, which has greatly promoted the development of education. In the construction of educational informatization, higher requirements are put forward for teachers' personal ability and teaching experience. The continuous emergence of teachers' personal websites with the theme of education has promoted the construction of educational informatization to a certain extent, and can also more effectively improve the educational effectiveness. The emergence of teachers' personal websites has led to the development of educational information towards networking, which can no longer be limited by time and space, and can carry out educational work to cultivate more outstanding talents for the society. Therefore, this paper mainly analyzes the personal website of teachers and the networking of education information, discusses the functional characteristics, construction requirements and application models of the personal website of teachers, and puts forward reasonable countermeasures to promote the development of education information construction.

## 1. Introduction

In the current era of knowledge economy, with the rapid progress and development of society, higher requirements have been put forward for the development of education. Based on this, education has ushered in broad development space, but also brought greater challenges. The application of advanced information technology in modern education, with its unique advantages, provides guarantee and promotion for the sustainable development of education, and has become a key issue widely concerned by experts and scholars at home and abroad. As one of the main carriers of information dissemination, the Internet has provided a new basis for the development of education by relying on its powerful data and information transmission capability. In recent years, websites with education as the main body have sprung up like bamboo shoots after a spring rain, promoting the development of education information in the direction of networking. From this point of view, it is very necessary to strengthen the research on teachers' personal websites and educational information networking, which has certain reference value for follow-up research and

practical work.

## **2. Development Status of Educational Websites**

Education is the foundation of a country's prosperity and strength. How to deliver more outstanding talents in the current fierce international competition requires adapting to the development of the times and applying more advanced technologies in the field of education, so as to improve the level of education informatization. China has clearly expressed its support for the development of modern education, and has provided a consistent guarantee for the distance education network supported by advanced information technology and satellite video system. It is expected that the modern distance education network will provide more learning opportunities for social members and improve the national quality [1]. With the construction and development of the national online project, all kinds of new ideas in the society are surging, and education concepts are also constantly innovating and improving. The corresponding education websites are also appearing on the Internet at an incredible speed, providing a broader development space for the long-term development of education. This paper analyzes the current major education websites.

### **2.1. Website of Education Administration Department**

The website of the education administration department is mainly the product of the government's online project. Under the leadership and promotion of the Ministry of Education of the People's Republic of China and other relevant departments, education websites of various departments have been established in succession. Such educational websites have very prominent policy features. In addition to introducing the functions of the department to the public, they will also provide relevant educational laws and regulations and current news, and become the preferred website for educators [2].

### **2.2. Website of Educational Research Institutions**

The websites of educational research institutions also have prominent policy features. Although the policy features are lighter than those of the websites of educational administrative departments, they still focus on providing educational resources, which has a very far-reaching impact on primary and secondary education, and information education has become the mainstream trend of education development. Due to the large amount of information and comprehensive content of their own educational resources, such websites have become the preferred websites for teaching and research, which can provide more comprehensive dynamic scientific research content and provide more high-quality teaching and research services for front-line educators.

### **2.3. Education Website of Information Industry**

Due to the limitation of the development level of China's education industry, it is impossible to realize the assumption that networked education is completely dependent on the national financial input. Therefore, in order to promote the long-term development of education information more effectively, the country began to consciously introduce a competitive mechanism to promote the development of education information industry through market-oriented operation, which is a huge separation of market sources potential [3]. Such websites are mainly aimed at publicizing corporate image and introducing education-related software and hardware products. Through continuous development and improvement, they are also trying to contact educators directly, hoping to promote some businesses related to teaching directly. At the same time, such websites have become an

important source of driving force for the development of educational informatization with their unique advantages due to their flexible operation and sufficient funds.

## **2.4. Teacher's Personal Education Website**

The rapid development of such websites is a very prominent scene in the construction of educational information technology. However, due to its rapid growth, some large websites that provide the function of home page space have to avoid its edge, among which the personal home page of teachers is the most typical. In recent years, the rapid increase in the number and scale of teachers' personal websites in China has led to a large number of like-minded online friends made by front-line educators, who have a common sense of awareness and responsibility for education, which has led many educators to become online peers, and formed a teacher online alliance in 1999. The daily viewing volume is also growing, attracting a large number of teachers to join them.

## **3. Characteristics of Teachers' Personal Education Websites**

### **3.1. Healthy Content, Catering to the Main Theme of the Development of the Times**

Due to its openness, the Internet has attracted a large number of users to join it. In order to attract more visitors, many websites even use adult content as a feature to attract users. As for other websites, there are not a few. Such websites are very vulgar, but as long as they do not involve too serious political activities, pornography and violence, many websites will not be punished. Websites built in the personal name of teachers will not have such problems. Many websites have healthy content, positive style, and many have bright and noble views. They dare to disclose personal information, work experience and work units, and make more like-minded partners through sincere attitude to attract users to visit [4]. For example, since the initial establishment of the website, the author's real name and work unit have been published on the home page, and higher assessment requirements have been put forward for the real information and personal identity of the relevant moderators, which is regarded as one of the necessary assessment conditions for joining the teachers' online alliance [5].

### **3.2. The Content is Mainly Subject Knowledge**

Due to the professional characteristics of teachers, most of the teachers' personal home pages are mainly composed of subject content and educational theories. The subject content includes their own majors and causes, daily teaching plans, courseware and teaching research papers. It is not difficult to see the teachers' own teaching quality and professional knowledge reserves from these contents. For example, in "Sailing on the Sea of History", there are many columns of historical figures, historical museums, and visits to ancient times. The education department mainly focuses on educational theory and educational resources.

### **3.3. There is a Big Difference between Artistry and Technology**

Although the content of teachers' personal website is a major factor to attract users, as a high-tech product, both technical and ornamental will have a direct impact on the website effect. Applying multimedia technology in education can more effectively stimulate people's senses, stimulate learning interest, and deepen understanding and memory of knowledge. However, the technical and artistic characteristics of the content in the teacher's personal home page are quite different. Some home pages have very reasonable overall layout and color matching, and use

advanced information technology to make the page dynamic and static. However, there are few teachers' personal home pages that can do this, and more importantly, they spend a lot of energy on content selection.

### **3.4. Individuality, Vividness, Interactivity and Learning Aid**

Compared with other types of websites, teachers' personal websites are different. They are mainly used to assist teachers in teaching. The basic content is educational theory and subject knowledge. The main goal is that primary and secondary school teachers who use the website can obtain diversified resources according to the needs of the subject and the actual characteristics of students. In addition, they provide corresponding space for teacher-student exchanges and guarantee that they can provide assistance for teachers' teaching. Generally speaking, teachers' personal websites can provide teachers with various forms of non-real-time interaction and real-time interaction platforms, such as chat rooms, e-mail, BBS, bulletin boards, etc. This platform is free, equal and convenient. The construction of teachers' personal websites is generally made by teachers. Teachers reflect their personality characteristics in text collocation, website color and structure layout, and the homepage of teachers' personal websites can also reflect teachers' personality differences, personal strengths and interests. Therefore, the construction of teachers' personal websites should be personalized. Website designers have different levels of computer application and different aesthetic concepts, resulting in quality gaps in the construction of websites. Students are the key to browse teachers' personal websites. Therefore, when primary and secondary school teachers design and manufacture personal websites, they should ensure that they meet the characteristics of vividness, and provide students with a communication platform based on colorful, vivid and interesting ways to ensure that students can obtain knowledge of learning and life.

## **4. Main Functions of Teachers' Personal Website**

First, the network information distribution center is the teacher's personal website, which has the basic role of learning resources. Primary and secondary school teachers should organize various resources to guide the learning content and learning process in the process of building personal websites, so as to reduce the difficulties of learners and lead to waste of time. In terms of actual teaching, compared with educational websites, there are advantages in timeliness and reference, Carry out teaching activities according to various things.

Second, integrate the curriculum. Primary and secondary school teachers should reasonably use new teaching organization tools when building personal websites. In practice, personal websites are used to carry out activities. Teachers should change the traditional classroom model to organize extracurricular teaching, and run through the whole learning process. Interactive learning websites list basic learning ideas in detail. Teachers' personal websites are a new teaching organization tool.

Third, improve the quality of teachers. Teachers' personal websites can innovate their awareness and improve their quality. If teachers want to meet the needs of social development, they need not only to learn basic education and professional knowledge, but also to analyze from the aspects of teaching methods and teaching concepts. From the perspective of teachers, the construction of teachers' personal websites generally needs to improve education concepts, fully understand the curriculum reform time tasks and information technology means.

Fourth, increase information exchange. When building a teacher's personal website, it should be conducive to the exchange and information flow between teachers and students. Sharing and disseminating network resources is the key to vigorously develop the network mechanism of information education in the world. It has great characteristics and advantages, and provides convenience for primary and secondary education. Generally, it is two-way communication

between teachers and students. Teachers share resources in similar posts and disciplines to facilitate the exchange of educational ideas, and supplementary exchanges can effectively promote the level and quality of scientific research to a certain extent. Communication between teachers and students includes emotional communication and learning communication. With the comprehensive development of information technology, many families can access the Internet to provide security for communication and learning.

## 5. The Main Role of Teachers' Personal Websites

First, make up for the barrier and lack of modern education. Through scholars' research, we can find that education and teaching have basically the same essence, so many scholars believe that teaching comes from communication. That is, teaching is communication. Communication is the basic form of teaching. If there is no communication, it does not belong to teaching. At the present stage, there is not very good communication in primary and secondary school teaching. Teachers often fill the classroom, that is, there is no communication, which is mainly based on the single teaching of teachers. There is a lack of communication between individual students and teachers, and there is a serious lack of communication between teachers and students. After the construction of the teacher's personal website, it can provide a good atmosphere for the communication between teachers and students, and is an effective way to supplement the virtual communication. The personal website of teachers is based on advanced technology to build an exchange platform and carry out the teaching methods of many-to-many, one-to-many and one-to-one, so as to expand the teaching space in an all-round way and improve the opportunities for communication between teachers and students.

Second, the professional development and knowledge management of teachers' personal knowledge. In the process of modern social management, teachers are currently at the social stage of knowledge core. As knowledge workers, teachers often contact many aspects of content. If teachers use their own level and knowledge to manage knowledge, they can improve work efficiency to a certain extent. With the in-depth reform and research, it is very important for teachers' personal websites to conduct knowledge management. After the death of the telephone, there are some tacit knowledge and some explicit knowledge. Generally speaking, teachers acquire explicit knowledge through lectures and reading, including general culture, subject knowledge, curriculum knowledge and scientific content. Teachers acquire tacit knowledge in practice so that they can form long-term accumulated knowledge with strong situational adaptability, which has an important impact on teachers' behavior. The construction of teachers' personal websites can provide a platform that is non-linear, free of space constraints and convenient and fast.

Third, cultivate students' comprehensive quality. According to basic needs and their own interests, learners can solve problems through teachers' personal websites and cultivate students' comprehensive quality. Students can use the teacher's personal website to improve their performance ability, thinking ability, operation ability, knowledge ability and judgment ability, and systematically cultivate students' comprehensive quality. Teachers' personal websites provide students with information to meet their needs. In practice, they pay more attention to innovative situations. Learners should build independent knowledge structures, provide information technology tools for students, and ensure that students' quality can be comprehensively improved.

Fourth, the development of teachers' professional expertise. Teachers are important resources in teaching according to basic needs. Teachers can not only identify curriculum resources, which are the basis of material resources, but also build curriculum structure. The quality of teachers will greatly affect the basic scope and development of curriculum resources. After the new curriculum reform, professors become activity developers, researchers and promoters in teaching activities. The

construction of teachers' personal website can fully display teachers' specialty, understand students' psychology and cognition, and build teaching programs that conform to the actual situation.

## **6. The Role of Teachers' Personal Websites in the Process of Educational Informatization in China**

### **6.1. Helps to Promote the Process of China's Education Informatization**

The development of education informatization, through the construction of personal education websites, helps to promote the process of education informatization in China. It is precisely because many education websites tend to be identical at present, and the contents and services they contain are roughly the same, while large education websites have complete columns and rich data, which are unmatched by individual education websites [6]. However, it is precisely because of this factor that large educational websites cannot cover all aspects. Even if the breadth is achieved, the depth is difficult to meet the personalized needs of users. Small personal websites make up for this defect with the advantages of small and fine. The moderators of these websites are mostly teachers and researchers who work in the front line. The material content in the website also takes a lot of personal time and energy to collect. These contents directly determine whether teachers have made breakthroughs and achievements in a certain field, but in terms of actual teaching results, this personal education website is more referential for front-line teachers, and its effect is much better than that of large education websites. Although in recent years, China's teachers' personal websites are still in the state of individual combat, and the resources are relatively scattered, and it is difficult to integrate together to form a website that is sufficient to compete with large education websites, but with the continuous deepening of education information construction, teachers' concepts are also constantly innovating, and many personal websites are also developing towards resource sharing, I believe that in the future, teachers' personal websites will inevitably become an indispensable part of education informatization.

### **6.2. Helps to Improve Teachers' Comprehensive Quality**

The continuous innovation and development of computer technology and its application in the field of education have greatly promoted the development of China's education, which is both an opportunity and a challenge for China's front-line educators. Based on this, higher requirements are put forward for teachers' comprehensive quality. In the context of the information society, teachers should not only master more solid subject knowledge, but also have high-level education skills. The matching education concepts also need to be innovated and improved [7]. Due to various restrictive factors, teachers' personal websites are not familiar with other computer technologies except traditional teaching skills. For such problems, we should further strengthen the promotion of computer technology and knowledge, encourage teachers to dare to practice online and improve their comprehensive quality. In "Sailing on the Sea", at the time of Macao's return, the relevant knowledge of human history, geography and climate of Macao was added, and advanced information technology was used to extract materials, which not only enriched the relevant historical knowledge of Macao, but also effectively improved the level of computer cognition and the comprehensive quality of teachers.

### **6.3. Helps to Strengthen Communication between Teachers**

One of the keys to the construction of educational informatization and the realization of networking is how to fully share information resources and give full play to the resource advantages

that traditional media do not have. This advantage is also reflected in the field of education, which provides convenience for the exchange and communication between teachers. Communication between teachers can improve teachers' teaching and research level while sharing educational resources and ideas with each other [8]. Teachers can publish their own courseware and academic papers on their personal websites for peer exchange, listen to the opinions and suggestions of other educators, constantly improve and promote each other and jointly improve the application level in the exchange.

## **7. Requirements for the Construction of Teachers' Personal Websites**

### **7.1. Innovative Website Content**

When building a teacher's personal website, we should not choose the vulgar content, and should focus on highlighting the new construction. We should design the teacher's personal website on the basis of meeting the novelty principle. We should not plagiarize the content of other websites. We need to build a unique personal website according to the actual situation. In the process of website design, we should fully grasp the selection of materials and try to be as few and precise as possible. At the same time, we need to highlight the new, integrate science and media, so as to provide greater convenience for teachers and students.

### **7.2. Accurately Locate the Website**

After the construction of teachers' personal website, it is necessary to clearly locate the teachers' website. The service goal of the website should be clearly defined. When the website is clearly positioned, it is necessary to ensure that the website can be effectively constructed to avoid wasting a lot of human, financial and material resources. The website construction on the Internet will be polluted by garbage such as digital words.

### **7.3. Active Website Form**

In the construction of teachers' personal websites, too rigid forms should not appear. After the construction of telephone, we should pay attention to the use of diversity and multimedia to replace the original text information, provide students with a creative, interactive and active research environment, and comprehensively cultivate students' practical ability and innovation ability.

### **7.4. Personalized Website**

The construction of teachers' personal websites requires the active participation of students, fully demonstrating the cooperation, activity, subjectivity, openness, development and resource-based nature of learning, and also needs to highlight the characteristics of construction, reasonably develop personalized students' willingness, and provide the basis and guarantee for the communication between teachers and teachers.

### **7.5. Combined with the Actual Construction of the Website**

At the present stage, research-based learning and research-based courses are the key points in quality education in primary and secondary schools, and are favored by the majority of educators according to the charm of practice and innovative characteristics. When building personal website phone, teachers should analyze students' basic ways of inquiry learning and development learning, promote students to actively participate in learning, provide convenience for students to understand

knowledge, and ensure that learning efficiency and work efficiency can be comprehensively improved.

## **8. Application Mode of Teacher's Personal Website**

### **8.1. Help Classroom and After-class Teaching**

The network teaching method has greatly changed the traditional classroom teaching mode. The construction of the teacher's personal website provides students with more learning methods, mainly including interaction with partners, media, course content, and teachers and students. At the same time, it can also leave messages and ask questions at any time, which can not only evaluate and diagnose the learning status, but also promote active learning. In online teaching, teachers have changed from the original transmitter to the instructor, and students have begun to actively participate in learning, emphasizing the dominant position of students. Teachers' personal websites can automatically select the content according to the actual situation according to the characteristics of students, and students can improve their learning efficiency through personal websites. The traditional teaching model can not fully understand the knowledge content, which is generally a project that students passively accept, so that students have no active spirit. After the construction of the teacher's personal website, it can provide students with many interactive resources, and find resources according to the actual situation. The barrier protection can effectively improve students' self-learning ability and active learning attitude, and lay a foundation for future learning, using the teacher's personal website, students no longer need special study and can inadvertently obtain relevant knowledge to comprehensively improve their information quality.

### **8.2. Facilitate Communication between Teachers and Students**

There is often teacher-student communication in teaching activities. If there is no teacher-student communication in teaching, then teaching will fail, which is very prominent and important in basic education. In traditional education, teachers are the personnel who organize activities, are the authority, are the embodiment of knowledge, and students are only the recipients of knowledge. After the development of network technology, compared with teachers, students also have a wide range of sources of knowledge, and some teachers may be inferior to students in some aspects. Many students may surpass teachers in processing and processing information. Based on this, teachers should improve their own quality and level according to the different characteristics of students, so as to achieve mutual benefit between teaching and learning. Nowadays, the advent of the network era has greatly changed the traditional teacher-student relationship and communication mode. Teachers' personal websites are used to promote the exchange and communication between teachers and students. Teachers are no longer the embodiment of knowledge, experts and authorities. In online teaching, teachers and students are equal, promoting emotional communication, acting as behavioral guidance and exchanging knowledge. Knowledge exchange mainly includes the influence of students on teachers and the teaching of knowledge to students. Teachers conduct personalized teaching through personal websites, and students can communicate with teachers through the network to reduce the differences between students.

Emotional communication between teachers and students is generally the emotional element of all teaching links, and the premise of achieving teaching objectives is emotional communication. With the continuous growth, unstable behaviors, emotions and thoughts appear in primary and secondary schools. At this time, students are not easy to open their hearts. Most of them are in self-contradiction. Teachers can use personal websites to communicate with students across space and time. Teachers can receive students' feelings and analyze their own achievements in the forum. This

way changes the traditional teaching methods to a certain extent, and changes the restrictions of campus and classroom, it can be done with only one computer, which is very convenient and fast. This form of communication can improve the lack of face-to-face communication.

### **8.3. Help Personal Knowledge Management**

At present, the development of society is mainly the knowledge core society. Although educators can involve a lot of knowledge and manage knowledge effectively according to their own knowledge characteristics, primary and secondary school teachers can not make ideal contributions, update and excavate knowledge at this stage. With the in-depth study of the new curriculum, more adaptive and mature experience gradually emerges. In order to effectively improve teachers' knowledge and develop teachers' knowledge explicitly, we should manage staff knowledge. Real-time personal knowledge management should meet the basic principles of economy, convenience and simplicity. Teachers should have basic functions and characteristics in building personal websites, which is an ideal knowledge management tool in teachers' teaching. The construction of teachers' personal websites is actually a process of accumulating knowledge. After the construction is completed, the management will be implemented according to the following methods. First, upload daily teaching materials and materials on personal websites, and manage teaching materials by classification to provide convenience for future applications. Second, we should effectively manage the website forum, timely respond and actively make speeches, and regularly summarize the teacher's speeches and relevant materials. Third, take notes through the website microblog, save the relevant information of the website, and properly integrate it into the hyperlink, record all ideas, videos, doubts and experiences of learning, and communicate with other teachers through the website and blog. Teaching reflection, conscious practice of teaching content, comprehensive, calm and in-depth analysis of teaching content to facilitate the optimization of teaching methods. Fourth, regularly update the content of the website, obtain new system resources, and constantly expand the resource base, which can not only improve the use value, but also facilitate teachers' management and knowledge.

## **9. Conclusions**

In the construction of educational informatization in China, the high cost of Internet access has become the key factor that restricts the orderly development of educational informatization. However, with the progress and development of society, I believe that this problem will be improved. The personal website of teachers has a prominent role in promoting the process of education informatization in China. It can effectively promote the construction of digital resources, effectively carry out online teaching, at the same time, it is also conducive to the professional development and growth of teachers, effectively improve the quality and content of education and teaching, and has positive significance and important value for the development of education informatization in China. While giving full play to the advantages and characteristics of teachers' personal websites, it is also necessary to pay attention to the cultivation of teachers' comprehensive quality and make overall planning based on the actual situation to provide a more solid guarantee for the construction of education informatization.

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