Research and Application on the Language and Literature Based on Network Information Technology

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Abstract. With the rapid development of computer technology, network information technology (hereinafter referred to as NIT) has become an indispensable basic tool in people's work, which has been applied to all walks of life in our country, including literature education. Language and literature (hereinafter referred to as LAL) are the extension of excellent traditional culture, which is the legacy of the history of all nationalities. Therefore, the study of LAL should not be stagnant, which needs to adapt to the modern technical means. Through the NIT, we can promote the progress of Chinese LAL, which will also have a significant impact on the audience. In the face of the impact of the network, the network culture has been greatly applied, which has a great impact on our traditional literature. With the popularity of Internet catchwords, some people tend to forget their words, which has gradually ignored the art and charm of traditional culture. Therefore, colleges and universities must use NIT to assist LAL research, which will strengthen the understanding of literary works. First of all, this paper analyzes the important role of NIT in LAL teaching. Then, this paper puts forward some problems. Finally, some suggestions are put forward.

Keywords: Network Information Technology, Language and Literature, Suggestions

1. Introduction
At present, the NIT has been applied to LAL teaching, which can be used in various forms of auxiliary teaching, such as text, pictures, audio, video, animation, instant messaging and so on [1]. Through NIT, students can be more clear about the emotional expression background of homework, including the background of the times, emotional background, social environment, writing intention, etc., which will greatly affect the appreciation of LAL works. Through the auxiliary application of NIT, we can gradually expand the scope of learning and the amount of knowledge [2]. However, the teaching hours of literary works are often limited, which will restrict the understanding of the connotation of literary works. Through the NIT, colleges and universities can expand the knowledge derived from LAL works, which can obtain the derivative knowledge that can not be reflected in books [3]. Through the NIT, we can carry on the network experience exchange and resource sharing, which will continue to expand the cognitive scope and knowledge reserve of LAL works [4]. Therefore, NIT can enhance students' interest in learning literary works, which will improve the teaching of literary works. Through the NIT assisted
teaching, colleges and universities can carry out diversified assisted mode, which will promote students' interest in literary works [5].

2. The important role of NIT in the study of LAL
NIT plays an important role in the study of LAL, as shown in Figure 1.

![Image](image_url)

**Figure 1.** The important role of NIT in the study of LAL.

2.1. Increase the number of beneficiaries
Compared with traditional teaching, NIT LAL teaching has a wide range, which is not limited by identity, region, time and so on. No matter when and where, as long as there is a network, people can learn LAL related content, which will quickly improve their language ability. At the same time, both students and professors. NIT can increase the number of people to be taught in LAL research, which can be discussed on the relevant network forums on topics of common interest. According to each other's views and experiences, we can improve our self-cultivation, which will increase our language ability [6-8].

2.2. Promoting efficient teaching
In the research of LAL teaching based on NIT, the teaching and research activities eliminate the obstacles of time, distance and so on. In the NIT teaching activities, people from all walks of life participate in teaching. The teams established by different organizations are mainly led by the organizers, which will establish a variety of communication platforms, including blogs, theme websites, QQ communication groups, etc. According to the needs of different groups of people, colleges and universities can carry out LAL teaching on NIT. Through regular sharing, we can adopt the teaching method based on NIT, which will save educators' time and energy. Through the NIT, we can improve the universality of the teaching population, which will improve the efficiency of students' learning [9].

2.3. Enrich teaching content
Online teaching is the teaching behavior of both teachers and students on the Internet. Through the information transmission function of the Internet, we can transmit the teaching content and scene images to the educated people in real time. At present, expert institutions have developed network teaching application equipment, which can be used for real-time network broadcast and synchronous recording [10]. Through NIT, we can automatically generate network on demand resource library, which can make any projector become a network projector. Through the NIT, we can digitize the teaching content or the scene of the meeting, including vision, sound, painting and so on. Through collection, synthesis and compression, we can live on the NIT in real time, which will enrich the content of LAL teaching. Through the NIT, we can achieve synchronous teaching, which will sweep away people's learning space-time barriers. At the same time, the LAL teaching system can effectively expand the scope and space of reading, which will increase the amount of learning knowledge.
3. Design of LAL Network Platform Based on NIT

3.1. Research on multi layer structure mode
B/S mode mainly divides the system into surface layer, logic layer and data layer, as well as user interface, business logic layer, business rule layer and data access layer. The system framework and database are shown in Table 1.

Table 1. Multi layer structure pattern.

|   | System framework |
|---|------------------|
| 1 | User interface   |
| 2 | Business logic layer |
| 3 | Business rule layer |
| 4 | Database access layer |
| 5 | System framework |
| 6 | Database |

3.2. System architecture design
The user interface is mainly supported by asp.net technology. The interface is composed of interface files and event control files. Its main functions include web page presentation, data display, capture and verification. By sending user input requests to users and students and accepting the input results, we can prompt employees with false confidence. Business logic layer mainly sends data request to data access layer according to user input of web interface. The business rule layer mainly serves the business logic layer and provides some maintenance for the state of business logic layer objects. The data access layer is mainly responsible for the task of sending and obtaining data to the database, which is realized by ado.net data components and SQL server. The overall architecture design of the system is shown in Figure 2.

Figure 2. The overall architecture design of the system

4. The curriculum model of LAL communication under the network environment

4.1. Lecturing network teaching mode
In the communication of LAL under the network environment, LAL course can realize the network teaching mode, which is an innovative activity based on the traditional teacher centered teaching. In the lecturing network teaching mode of LAL teaching, teachers and students build a lecturing based teaching mode with the help of online communication platform. Lecturing network teaching mode is mainly divided into synchronous teaching and asynchronous teaching. Synchronous teaching mode is that teachers and students do not study in the same place. Teachers spread the knowledge of LAL through the network mode, which is similar to the traditional mode of LAL communication. Asynchronous teaching mode is mainly e-mail teaching. Teachers make teaching e-mail of LAL knowledge and send it to students' mailbox. Students carry out learning activities according to their own learning plans and learning needs. With the help of online communication platform, teachers can conduct real-time
interaction and communication, which will meet students' personalized and targeted learning needs. And can exercise students' learning consciousness and learning initiative.

4.2. Demonstrative network teaching mode
Under the network environment, in the teaching activities of LAL communication, teachers can make corresponding teaching plans according to the needs of teaching. With the help of NIT, we can show students the information of LAL teaching. Teachers can install CAI Courseware in the teacher terminal, which will get more information of teaching resources in the network. In the demonstrative network teaching mode, the network teaching content of LAL can be divided into three categories, namely blackboard writing, teaching simulation and abstract teaching content. First of all, in the network LAL communication, teachers can display the traditional teaching content in the form of network, so that students can create a classroom learning atmosphere in the NIT, and mobilize students' learning enthusiasm and initiative. Secondly, with the help of network technology, teachers can create a vivid and vivid teaching environment for students. When learning poetry content, teachers can play classical music through audio or video, which can create a better atmosphere and environment. Finally, with the help of Internet platform, teachers can provide more vivid and diversified teaching content, which can change the dullness of traditional LAL content. Through the demonstrative network teaching mode, we can inject new vitality into the dissemination of LAL knowledge.

4.3. Exploratory network teaching mode
With the help of network technology and network teaching resources, teachers in LAL communication should actively change their teaching ideas and teaching methods, which requires the construction of inquiry teaching classroom. Teachers provide relevant questions for students' LAL knowledge learning, and students think, analyze and discuss, which will explore the mode of online discussion, offline discussion and combination of online and offline. First of all, the teacher will distribute the content on the online learning platform, and the students will discuss and analyze the knowledge of LAL in the group, which will avoid the limitation of time and space on the students' inquiry activities. Teachers summarize and evaluate students' inquiry activities on the online platform. Offline analysis mode is mainly for teachers to organize students to carry out inquiry activities in the classroom.

5. Conclusion
With the advent of the new era, the study of LAL must follow the development of the times, which can better inherit the connotation of traditional literature. Through the NIT, we can timely change the state of LAL communication and development, which will make full use of the network to carry forward China's excellent language and culture to the world. Through NIT, we can promote the progress of LAL education in Colleges and universities, which can also promote the research and inheritance of LAL in China.

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