Construction of English Network Teaching Platform Relying on Computer Big Data

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Abstract. In the application of data and information in recent years, a large number of large Internet English teaching databases have gradually been established and the requirements for data management and collection have become more mature. Related Internet companies need to be able to build a huge database based on the collected data. Data system, so as to better carry out simple English teaching big data application and query work, but because the quality and efficiency of current data collection are not high enough, the difficulty of collection is very large, so the construction of the database is extremely difficult and relevant Of personnel can find targeted data collection methods. At the same time, because the number of visits to English teaching big data is extremely large and the related visits can reach an astonishing millions at the peak, it also poses an inevitable test for the management of the collection department for combing and it needs to pass reasonable data management. And applications to build a huge data management system, so as to better support the English teaching large database to complete data query and management actions and achieve the optimization of database load balance.

Keywords: Computer, Network, Teaching

1. Introduction
With the continuous progress of science and technology in our country, many schools have begun to use network technology, especially some higher vocational colleges in our country, have begun to establish network platforms, which has promoted the development of teaching. The application of the network platform in English teaching can provide students with a better language environment and improve their English learning ability. The following author will talk about how to improve the efficiency of English teaching based on the network platform.

2. Big data processing technology

2.1. Collection of big data information
Collection is the primary link and work of big data information analysis. It is extremely critical in the application of big data in recent years. The quality of data information collection directly affects the application quality of big data processing technology and there is also a regularity in the sorting of big
data information. Significant influence. The data processing model is shown in the figure below.

![Data Processing Model](image)

**Figure 1.** Data processing model.

2.2. Statistics and management analysis of big data information

In terms of big data statistics and management analysis, it is necessary to be able to adopt scientific and reasonable data sorting and management methods to achieve optimized analysis and summary of databases and data information groups and to use reasonable and scientific methods to analyze data information, thereby improving and meeting the needs of different customers. In business management and personal decision-making, it is necessary to realize the statistical and scientific management of big data information based on different data information and then realize the optimized management and analysis of big data information and help enterprises and individual users to better apply Big data information processing technology. At the same time, it is necessary to be able to adopt different data analysis techniques and capabilities according to different information technology and data analysis needs to realize real-time analysis and research on big data and to choose scientific and reasonable data analysis models and data analysis. In order to better realize the management of the huge amount of information. The data management model is shown in the figure below.

![Data Management Model](image)

**Figure 2.** Data management model.

2.3. Management and preprocessing of big data information
For the application of big data information technology, it needs to be carried out from two aspects. One is the application of big data information mentioned above and the other is what we need to think better about how to better realize big data information. The preprocessing, so as to better prevent the problems of big data information, realize the rationalization and scientific management of big data information, optimize the application and effectiveness of big data information and avoid the big data application caused by the error of the information itself. error. Therefore, in the management of big data information, the front-end data import and centralized database processing should be used. At the same time, the distributed storage method should be used to preprocess the imported data, so as to better realize the unified processing of a large amount of data. Avoid the confusion of big data processing caused by excessive data volume, thereby improving the quality of big data technology application and improving the level of data management.

3. Analysis of English online teaching platform
On the network platform, teachers can also use a combination of face-to-face teaching and network teaching to teach students[1]. Qualified colleges and universities can set up online classrooms so that students can use a computer and teachers can make full use of computer-assisted teaching. Teachers can teach online on the platform, which requires teachers to have a higher level of multimedia application technology, actively learn online teaching and flexibly use the online platform to teach. For example, teachers can allow students to group freely on the network platform, students discuss course content and explain different levels of knowledge to students of different levels. In addition, teachers can also tap the testing and inspection functions of the network platform to provide students with time to use network software to test and practice, thereby consolidating knowledge. Taking oral English teaching as an example, teachers can introduce interactive dialogue software in the classroom to allow students to conduct intelligent voice dialogues with computers, thereby improving students' oral English expression ability. In addition, a voice test system can be introduced to stimulate students' interest in learning, encourage students to speak actively, initiate dialogue and allow the system to evaluate and score[2].

4. English network platform construction based on computer technology

4.1. Organize large-scale student-child cooperation
The most important point of carrying out college English online platform teaching based on the interactive theory is that it must be student-centered, give full play to the initiative of the students, use knowledge autonomously by students and construct knowledge structure autonomously by students. Therefore, teachers can organize students into different study groups based on the principle of complementarity between excellent students and underachievers and carry out large-scale student-student cooperative learning on the network platform. Teachers should also be good at connecting network platform teaching and classroom teaching[3]. Leave some questions when teaching on the network platform and check the learning effect of students when they are in class. This research result also tells us: To carry out English teaching on the Internet platform, we must actively abandon traditional passive learning and must actively compress the content of English listening training and English reading training. At the same time, we must consciously increase English videos and "teacher show". English" (that is, teachers perform English demonstration performances) and other content. The learning platform model is shown in the figure below.
4.2. Reasonably set up the functional modules of the English online teaching platform
According to survey statistics, more than 97% of students use the "Tutorial Learning" module on the English online teaching platform, more than 70% of the students use the "Text Extension Knowledge" module on the English online teaching platform and more than 53% of the students use English online teaching The "Personal Online Learning Statistics" module is used on the platform. More than 85% of the students use the "Test and Score Statistics" module on the English online teaching platform and more than 58% use the "Online Communication" module on the English online teaching platform. More than 90% of the students use the "resource download" module on the English online teaching platform, more than 60% of the students use the "exercise and practice management" module on the English online teaching platform and more than 78% of the students use the English online teaching platform "Asynchronous Communication Platform" module[4]. But 90% of the students think that the "text extension knowledge" module is of little use, 89% of the students don't see the role of the "personal online learning statistics" module and 70% of the students think the "online communication" module is not useful However, 75% of the students hope to add American dramas, Hollywood movies and human-computer interaction modules to the online teaching platform. Therefore, according to the needs of students, in order to carry out the specific needs of English online platform teaching, the functional modules of the English online teaching platform should be reasonably set up for students and each functional module should be adjusted appropriately[5].

4.3. Introduce the elimination mechanism
Interactive theory emphasizes the movement of learning and firmly opposes static closed teaching. — In traditional college English teaching, there is no elimination mechanism for teachers and students. Teachers have iron rice bowls and there is almost no possibility of elimination for students. It is difficult to improve the quality of teacher teaching and student learning. Therefore, we believe that we should introduce a two-way elimination mechanism in online platform teaching, emphasize competition, let students have the right to choose teachers and let teachers have the right to eliminate students, let teachers and students feel pressure and continuously improve teaching quality and learning quality[6].

5. Conclusion
Based on the network platform, in addition to classroom teaching, the English teaching of colleges and universities can also guide students to use the Internet for autonomous learning. Teachers can first evaluate the English learning of different students and then assign self-study tasks according to the actual progress and ability of the students. For example, teachers can divide students into several
groups according to their level and provide some English audio-visual materials teaching short films, etc., so that students can use the Internet for online learning after class. In addition, teachers can also teach students to develop network resources on their own and establish a network platform interactive area for students to interact with each other. Teachers can also answer questions online to encourage students to learn by themselves and enable students to achieve efficient learning during and after class.

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