Retraction

Retraction: The Design of College English Teaching Platform Based on Artificial Intelligence (*J. Phys.: Conf. Ser.* 2066 012084)

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The Design of College English Teaching Platform Based on Artificial Intelligence

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Abstract. Entering the 21st century, with the rapid development of the computer Internet, the transformation of the functions of schools in moral education and teaching management has been further strengthened, and the construction of educational information in my country has entered a new stage of comprehensive development. English teaching methods have also undergone changes. Following the reform of the Ministry of Education, we seize the opportunity to promote the further development of artificial intelligence in the field of education and provide convenience for college English teaching. The purpose of this article is to study the design of college English teaching platform based on artificial intelligence. This article introduces the development process of the intelligent teaching integrated service system in detail, and also details the system's demand analysis, function design, and database design. This system can realize the comprehensive management of students' grades and comprehensive intelligent services at the teacher level. The design of the integrated teaching service system of the platform is to serve many college students, provide teaching and management services, and provide college students with information and results and other information query services. Combining with the predecessors to establish a teaching platform for research, the various management systems they used, analyze the experience and shortcomings that these systems and the platform can learn from in actual teaching management services, and research and develop a set of intelligent teaching suitable for use by the unit Integrated service system. Experimental investigations and studies have shown that the most balanced function of each platform is the Max Intelligent Assistant, whose system averages about 33% in teaching, analysis, and correction. The analysis system of Yu Classroom accounts for the largest proportion of all platforms, as high as 40%. The teaching system is the best geek big data, with 40%. In general, learn from the above teaching platform design and improve it to provide learners with the most suitable teaching platform.

Keywords: Artificial Intelligence, College English, Teaching Platform, Design
1. Introduction
In the 21st century, with the rapid development of the computer Internet, the transformation of the functions of schools in moral education and teaching management has been further strengthened, and the construction of education informatization in my country has entered a new stage of comprehensive development[1-2]. The English teaching method has also undergone tremendous changes. Following the reform of the Ministry of Education, we seize the opportunity to promote the further development of artificial intelligence in the field of education and provide convenience for college English teaching [2-4]. The design of the college English teaching platform is mainly a computer networked English education and teaching management service system, which can provide teachers and students with a number of teaching and education information services [5-6].

In the research on the design of college English teaching platform based on artificial intelligence, many domestic and foreign scholars have studied it and achieved good results. For example, Kim proposed that the reform of teaching methods is not a complete denial of teaching traditions, but is to optimize teaching methods on the basis of inheriting the advantages of traditional teaching or integrating traditional teaching wisdom, and analyzes the direction of teaching reforms [7]. Rashdan pointed out that education takes place under a certain era background, and the goals of education raised by societies in different periods are not the same [8]. When information technology penetrates into all areas of society and promotes changes in society, it will definitely bring new impacts to the education field. If education does not conform to technology and the development of the times seeks innovation and change, it will hinder the development of society. It can be seen that the new educational expectation is the direction of educational reform [9-10].

This article introduces the development process of the intelligent teaching integrated service system in detail, and also details the system's demand analysis, function design, and database design. This system can realize the comprehensive management of students' grades and comprehensive intelligent services at the teacher level. The design of the integrated teaching service system of the platform is to serve many college students, provide teaching and management services, and provide college students with information and results and other information query services. Combining with the predecessors to establish a teaching platform for research, the various management systems they used, analyze the experience and shortcomings that these systems and the platform can learn from in actual teaching management services, and research and develop a set of intelligent teaching suitable for use by the unit Integrated service system.

2. Research on the design of college English teaching platform based on artificial intelligence

2.1. Analysis of design principles

2.1.1. The system interface is friendly, simple and easy to maintain. In the interface design of the system, it is necessary to highlight the friendly and clear interface characteristics; the operation design adopts the "what you see is what you get" approach with clear levels. The main users of the system are teachers and students. They can use the functions of the system as long as they do simple training.

2.1.2. Has good scalability. Set up according to the current society's demand for labor skills, this system should be able to meet the increasing demand for student data caused by the continuous expansion of the school scale, such as the increase in the number of students and the number of majors. The increase in the number of students will bring about a surge in user client access, and the system should be able to adapt to the ever-increasing user client access requirements. With the improvement of school informatization, other education and teaching services of the school can be integrated through this system, such as student comment system, school office automation system and so on.

2.1.3. Realize the sharing of data and information among multiple departments. Each department of the teaching platform completes their own data and information collection according to their functions.
The data collection, data processing, and data update of different departments are completed on a dedicated database server to ensure the uniqueness, real-time, and accuracy of data information. When education and teaching affairs occur in various departments of the school, corresponding data processing can be carried out through this system to realize the function of sharing data among multiple departments.

2.1.4. Provide good education and teaching services for schools, teachers and students. This system is conducive to give full play to the functions of the school's various resources and further strengthen the utilization rate of the school's limited resources. For teachers, the platform can use existing data, and through efficient data processing services, feedback to teachers the processing data that is conducive to education and teaching, such as the student's dropout risk index, the student's guidance and so on. For students, they can check their learning performance in school online, adjust their learning status in time, and save it as a permanent resource in the school's database archives.

2.2. System function requirements

2.2.1. Management staff of the admissions office. Mainly responsible for the collection and entry of student status information when enrolling freshmen, open the authority to the freshmen's head teacher, enter all kinds of student information into the system according to the field requirements of the system database, and publish it on the Internet after the admissions management personnel review the data. Other teachers or students to view.

2.2.2. Management staff of the academic affairs office. Mainly responsible for professional management, grade management, graduation management and other functions. At the beginning of each school year, in accordance with the school's professional development needs, do a good job in the management of the establishment of majors, and set up professional information data in the system. At the end of each semester, the corresponding teacher is authorized to enter the student's semester scores into the system. After review by the administrative staff of the Office of Academic Affairs, the score information will be posted on the Internet in a timely manner, so that teachers and students can inquire; do a good job of graduates' scores Combining with the management of credits and system functions, we can learn about students' grades and credits in a timely manner, and give feedback to the corresponding class teacher to prepare students for graduation.

2.2.3. Class teacher. Do a good job of inputting semester grades in time, combining the functions of the system platform to understand the results of the subjects taught in a timely manner; using the database of the system, the results can be analyzed and summarized in the same grade but between different classes. The longitudinal analysis and summary of professional subjects but different grades, based on the results, formulate the teaching goals and teaching methods for the next semester, and prepare for the improvement of teaching quality.

2.3. Database design

2.3.1. Teacher information form. This table is a log-in information table for teachers, which records all basic information of teachers in school, including ID numbers and login passwords.

2.3.2. Professional information form. This table is the status table of all majors opened by the school, including the professional name, compulsory credits, and elective credits related to the major. It is used as the basis for the evaluation of the total credits of students after graduation.

2.3.3. Class information table. The class information table stores the current class information of the school, such as the grade, the major, and the name of the class. The table also reflects the relationship between a certain class and the grade and major.
2.3.4. **Student information form.** This table is a detailed record table of student information. It should be used as an important information basis for students at school and is also a data source for the student identity login function in this system. When students enroll, the admissions office staff will arrange the entry of this table. The fields are: registered student number, name, gender, date of birth, ethnicity, place of origin, nature of household registration, mailing address, ID number, postal number, graduation school.

2.3.5. **Course information form.** The table stores the courses offered by all majors in the school. The table can clearly show the courses offered by each major and the credits occupied by each course. The fields are: professional name, course name, course category, credits, passing score.

2.3.6. **Examination results table.** The test score sheet is a record of the students' test scores in each semester. It is the main data source for students to inquire about their scores, and it is also the main database for teachers to enter and inquire about their scores. The fields are: registered student number, name, major, course category, and total score.

2.3.7. **Reward and punishment regulations table.** The Reward and Punishment Regulations Table is a series of disciplinary regulations formulated based on the performance of school students, and also serves as the basis for the quantitative evaluation of student conduct in normal times. The fields are: reward and punishment name, score, remarks.

2.3.8. **Evaluation index weight table.** The evaluation index weight table is the comparison weight of various reward and punishment regulations formulated by the moral education department based on investigation and research. The fields in this table change dynamically according to the content of the rewards and punishment regulations. The fields are: the name of the reward and punishment, and the content of each reward and punishment.

2.4. **Quantitative statistics on evaluation scales**

The scores of each student's violation items are quantified according to the evaluation scale. According to the data of the violation record table, the total number of violations of a certain indicator of the student is counted, and then the evaluation scale can be consulted to obtain the score value. Calculated as follows:

\[ V_i = \sum_{j=1}^{n} V_{ij} \times W_j \]  

(1)

Among them, \( A_i (i=1, \ldots, m) \) is the evaluation object; \( V_{ij} \) is the evaluation index (criteria, item); \( W_j \) is the index weight, the formula is:

\[ 0 < w_j < 1, \quad \sum_{j=1}^{n} w_j = 1 \]  

(2)

3. **Research on the design of college English teaching platform based on artificial intelligence**

3.1. **Subjects**

The main application group of this English teaching platform is a large number of university teachers and students. Its fundamental purpose is to help middle and university teachers to better improve the teaching level of college English, and to help students learn college English teaching more easily and vividly.

3.2. **Experimental method**

Use the questionnaire survey method to consult with the vast number of university teachers and students to understand the needs of college English teaching platforms in the era of artificial intelligence, and at the same time consult the college teachers and students' impressions of other college English teaching platforms, their suggestions and needs Design and improve.
3.3. Data collection
Investigation task decomposition makes a detailed breakdown of the total amount of investigation activities, assigns investigation tasks to investigators or investigation teams, and assigns tasks equally by default. The survey task is broken down into specific task assignments, such as how many answers each investigator or survey team needs to collect, the time range for collecting the answer sheets, and the location of the survey. The survey tasks can also be manually assigned. If the system automatically divides them into an inappropriate way, you can modify the assigned tasks.

4. Experimental research and analysis of college English teaching platform design based on artificial intelligence

4.1. Analysis of intelligent teaching platform
The teaching platform is based on artificial intelligence. It is an intelligent teaching system with a teaching system, an analysis system and a correction system. Learn from other platforms of the same type, analyze from these three aspects, and achieve "to remove the dross and get the essence", so as to improve all parts of the platform design. The experimental results are shown in Table 1:

| Platform System          | Teaching System | Analysis System | Correction System |
|--------------------------|-----------------|-----------------|-------------------|
| Rain Classroom           | 32%             | 41%             | 27%               |
| Michael Sizhi, Assistant Teacher | 36%             | 30%             | 34%               |
| Geek Big Number          | 40%             | 23%             | 37%               |
| Wing Class Network       | 26%             | 34%             | 30%               |

Figure 1. Analysis of intelligent teaching platform
As shown in Figure 1, the most balanced function of each platform is the Max Smart Assistant. Its system averages about 33% in teaching, analysis, and correction. The analysis system of Yu Classroom accounts for the largest proportion of all platforms, up to 41%, the teaching system is the best geek big data, with 40%. In general, learn from the above teaching platform design and improve it to provide learners with the most suitable teaching platform.
4.2. Analysis of teaching methods

In the teaching methods of teachers, the artificial intelligence system provides great convenience. It can help teachers prepare lessons and reduce the burden on teachers. At the same time, they can also teach anytime and anywhere, which is convenient for students to learn, review, and even conduct interactive communication. The experimental results are shown in Table 2:

| Teaching method                                  | Teacher tendency rate | Student propensity rate |
|-------------------------------------------------|-----------------------|------------------------|
| Intelligent lesson preparation                   | 84%                   | 41%                    |
| Precision teaching                               | 89%                   | 93%                    |
| Intelligent answering and Coaching               | 62%                   | 91%                    |
| Adaptive preview of new knowledge                | 85%                   | 57%                    |
| Intelligent interactive learning                 | 67%                   | 89%                    |
| Intelligent companion practice                   | 87%                   | 68%                    |
| Intelligently guided deep learning               | 74%                   | 57%                    |

Figure 2. Teaching method

As shown in Figure 2, the proportions of teachers and students for intelligent precision teaching are 89% and 93%, respectively. For intelligent lesson preparation, teachers tend to account for 84%. In general, based on artificial intelligence, the teaching platform can better help teachers prepare lessons, achieve precise teaching, and improve teaching efficiency.

5. Conclusion

Artificial intelligence has brought great changes to the education industry. At the same time, it analyzes and studies the current development status of university teaching platforms and management systems. Aiming at the advantages of the current teaching platform and the lack of service management system and the existing problems, this paper analyzes the fit of the existing teaching platform to the university, and combines the needs of college students in teaching services, and
proposes to implement a set of feasible. The design of the college English education platform provides a certain theoretical basis for the scientific construction and development of intelligent education.

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