Effect analysis of the application of multimedia in painting appreciation course

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ABSTRACT

In painting appreciation course, the multimedia teaching based on computer can change the teaching methods of teacher-centered and one-way indoctrination. To a certain extent, it can reflect the charm and the strong appeal of the painting art. This makes the painting class more vivid and the teaching more intuitive so as to stimulate students' interest in painting lesson. When making the multimedia courseware of painting appreciation, we should elaborate it based on the actual situation and the subject characteristics and adopts the flexible multimedia teaching method to obtain the ideal effect. The practice proves that the effect is very good using multimedia teaching method in painting appreciation course.

KEYWORDS

Application of multimedia; Painting course; Humanistic quality education.
INTRODUCTION

"Painting appreciation" course belongs to the aesthetic humanity quality education course and it is the effective way to popularize the literature knowledge and improve the literature appreciation and quality of college students. The network speed is not ideal enough in our country, so the network and server can not bear the centralized access. The school carried out distance education usually builds several learning center distributed servers outside school which mostly adopt the mode of B/S. The schools that launch the distance education usually build many learning center diversion servers outside school, mostly adopting B/S mode. The overall structure is shown in Figure 1. It builds the central learning center server in the headquarter of school and the other learning centers also build their own teaching resource servers. All the system backstage servers store the learning resource, including document resources and video resources, for the user to use freely. The rational use of the multimedia teaching means fully reflects the essential characteristic and enhances the teaching effect of appreciation course.

The modern multimedia education is exist in the transmission process of education information. Currently, from the effect of system application, this operation mode has two obvious shortages: (1) In education system, there are a lot of learning resources and it has a huge volume. But, the network speed in our country is not ideal for the large amounts of resources transmission. So, due to the network transmission, some resources in the servers of platform do not synchronize with the resources in other servers, which result in a number of learning resources on the servers are incomplete or not the latest information. This makes the learners can not learn the latest knowledge timely. (2) In this combined mode, students need to register several times, because the account is not shared between servers. In other words, a account registered on a server can not use to learn and download resources on another server. The students must register again when they want to learn in another server. This is very trouble.

MULTIMEDIA TEACHING MODE OF PAINTING APPRECIATION COURSE

When the modern multimedia education technology is applied in the teaching of literature appreciation, the new education platform makes full use of the advantage of network and stores the resources of each central server it the "cloud". Distance education platform provides the function of automatic search and choosing the best path to transmit data. The servers can spare for each other and switch with each other, if a server fails, the platform system can switch to another nearest server automatically and the user can not feel this process. This design makes the students no longer to make several registrations when using different servers. The users can use all the resources in the servers of a platform with one registration, which achieve the greatest sharing of learning resource. At the same time, it improves the reliability of the whole platform system. The system adopts the modularized design concept and the logical structure is clear. Due to the integration of cloud computing, the service ability of the system has significant improvement and can adjust the using method and interface according to the actual situation of the students. So, it has strong flexibility and practicality. Single media only reflects the functional meaning of itself, no inclusiveness. The comparison between the traditional education mode and the teaching platform mode based on the multimedia network is shown as TABLE 1.

<table>
<thead>
<tr>
<th>teaching mode</th>
<th>teaching relationship between teachers and students</th>
<th>corresponding relationship between teachers and students</th>
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<td>traditional teaching mode</td>
<td>directly, face to face</td>
<td>one-to-many</td>
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<tr>
<td>teaching mode based on the network</td>
<td>indirectly</td>
<td>many-to-many</td>
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TABLE 1 : The comparison between the traditional education mode and the teaching platform mode based on the multimedia network
The painting appreciation teaching system model in the modern teaching means has great improvement and breakthrough compared with the traditional teaching mode. The overall structure is made up of the basic layer, service layer and application layer. It is divided into 5 modules, including the module of data processing, monitoring, treatment process, decision-making and the basic module. Among them, the resource library of the base layer platform system requests to ensure the reliability and stability of the basic resource library through the hardware, software, virtual and other technology. The base layer provides the basic support for the server and application layer, such as providing computing processing ability and storage function. We can say that the base layer is like a energy depot of platform system. Because the business processing module of the system lies in the application layer, so the core of the platform system is the application layer. The business processing module is divided into the following sub-modules: comprehensive supervision, authority distribution, business processes, system automatic sign, document processing, information collection and searching. The application layer mainly provides interactive interface for students or other programs. The service layer includes the various service functions in platform system, such as file transfer service and data query service. The next section of the paper will introduce the design of the core module of the system.

Design features of the multimedia courseware of painting appreciation course

In order to give full play to the advantages of multimedia technology in the teaching of literature appreciation course, the design of multimedia courseware should be closely linked to the syllabus and the characteristics of subjects. Also, it should be planned globally and designed carefully to obtain the desired teaching effect. The followings try to discuss the design features of courseware from five aspects.

Characteristic of image

Painting appreciation course regards improving the appreciation ability and aesthetic judgment as teaching aims. Specific and emotional aesthetic image is the important means to enhance the ability of aesthetic perception. The core module is divided into the following sub-modules: comprehensive supervision, authority distribution, business processes, system automatic sign, document processing, information collection and searching. System module is shown in Figure 2. Each module has the one to one relationship with the corresponding renter and each module is started by the corresponding tenant identifier. The identifier arrives each module by using metadata channel and each module accesses the needed resources combined with the metadata function area. The main function of comprehensive monitoring is the installed platform system of SaaS service. It configures the related parameters of system for users and distributes user rights. Authority control module has three kinds of methods to identify tenants. The people related to SaaS service and application, based on their identity identifier, use the corresponding rights assigned by the system to access the specified files. In order to prove a good, efficient and convenient service for different users, SaaS should satisfy a variety of workflow requirements. The configuration tool of workflow module only supports the workflow in the department or the inside of platform system and it does not support the others. The system automatic sign module is realized by the means of signature technology and watermark identification. The main function of file processing module is to add, reduce or transfer the documents in servers. These documents are stored in a form in the database and they are independent of each other between different tenants. Also, they can manage some specific electronic files automatically, such as cleaning up the expiration or temporary files and activating the relevant documents. The main function of the searching module is to extract the relevant information in the files by collecting, allowing users to enjoy better query service. Using this function, students can search for the relevant information they need freely in the database of education platform. The multimedia network teaching platform structure diagram is shown as Figure 1.
“Only when the author has rich emotion, he can form wonderful works.” Many paintings are still popular with modern people. The reason is that it embodies the thoughts, even the painstaking effort and life of the painters. According to the service characteristics offered by cloud computing, it can be divided into three layers. The lowest layer offers the most basic hardware support, such as central processing unit (CPU), memory and hard disk. They are collectively called "the hardware infrastructure services.” The system is based on B / S model. SaaS is provided by a Web browser. SaaS platform be composed of four layers, namely: external interaction layer, comprehensive processing layer, business layer and information storage layer. Renters register system using the external interaction layer through the browser. The comprehensive processing layer can handle a variety of user’s requests, making the system more flexibility. The main functions of the business layer are business security service, friendly interface, configuration information service. Usually, the information storage layer is designed by the form of shared database and data separation to improve the security of the database. In order to make the interface and function of the system can be configured, and the education resources can be the allocated efficiently and flexibly, the platform designs scheduling mechanism for the requests. The renter’s requests can be roughly divided into 3 categories: One category is the interface appearance request. There are corresponding appearance modules to answer this request and such request needs SaaS to show the specified information without changing the service state. The other type is the system configuration request. This request requires SaaS to modify the corresponding configuration. Because the design the configuration module is extracted from the business module, so the processing request of configuration module is similar to the service module and it does not change the status of the service. The last is the request of education resources and this kind of request needs to change the service state.

**Autonomy**

In essence, Painting appreciation activity is a kind of aesthetic activity. Compared with the other activities, aesthetic activity needs the aesthete to have active and independent thinking - observation, judgment, thinking and imagination. Strengthen of protection measures to sensitive data. Taking into account the database management system has its own set of data security access mechanism, most of the traditional systems only encrypt the identification of the system users and do not encrypt the data information of system internals. Because of the database management rights of distance education system are in the hands of the operator, so it is necessary to encrypt some private data to prevent illegal disclosure and steal. This project researches a new cloud storage and SaaS applications to protect the security of the data. In the process of system development, user data is isolated from the system. After running in the system platform, if the user's data and data storage location can keep update synchronization, which means a new data is stored in the new position, it can protect the private data. While creating and running a database, generally the system will encrypt the database according to the conventional encryption method. Sometimes, it will make a few changes to the function of original system to update the storage location of data in system running time. After the transmitting of the data, the original database server will lost the access right to private data so as to fully inspiring students’ thinking and leading them to judge and feel beauty. The logical structure and implementation of live teaching sub-module is shown as Figure 2.
Characteristic of imagination

Students’ appreciation of paintings is not the pure mechanical reflection. It is influenced by the mindset or “first structure” which constitutes the main body before appreciation, including the impact of personal life experiences, thoughts, literacy and other factors. Data isolation method in the education platform. Usually there are three isolation methods. The first is database isolation, which is to keep the independence of the database between users. An account corresponds to a database. This isolation method is the most thorough isolation with the highest data security. However, the only drawback of this method is that it need to invest too much money. The second is the data pattern isolation and database sharing. The entire education platform just uses one database and each account has a separate mode, which provides abstract logical data isolation for each user, not the actual physical isolation. Also, a database can support several users, which effectively reduces the cost of system. Because the logical relationship of abstract isolation is complex relatively, so it is difficult to manage. The third is the data model and database shared. The entire education platform only has one database and a data mode. It pluses the identifier (user ID) on the business table which has isolated demand to achieve the purpose of isolating the data. This makes the sharing degree of database achieve the highest and the cost of system achieves the lowest, but the isolation is not thorough enough. The drawbacks of this method are that it would increase the burden of the system’ developer and the amount of code in the aspect of developer’ safety and reliability would increase a lot. The data on the platform is also easy to lose. Considering the cost and safety of system, this paper adopts the second isolation method when carrying on data isolation. Its relatively low cost and safety meets our country’s requirements to distance education to calculate students’ healthy and pure aesthetic taste.

Knowledgeability

In the process of painting appreciation teaching, the appreciation procedure to works is usually divided into three links: intuitive perception, experience and understanding, the rational cognition. The data automatic management by using the backstage server and database management system. The school no longer carries on artificial management. The maintenance and upgrading of the whole system is completed by professional service provider, also the school no longer carries on maintenance and management. The use of cloud computing cannot do without the Internet. All the requests sent by students and data transmission are realized by using the Internet, so it is very difficult to guarantee the safety of the data in the transmission process. Compared with the commercial system, especially the financial system, the security requirements of distance education platform are not very high, but the data which needs to be kept secret, such as the teachers and students' personal information, questions, especially the sensitive answers to questions, teaching document is not allowed to open to the public.
freely. For example, it can carry out presentations according to age, art disciplines, time and others with high summary and free combination. The structural model of multimedia network resources system is shown in Figure 3.

**Figure 3 : Structural model of multimedia network resources system**

**ISSUES SHOULD BE BALANCED IN THE MULTIMEDIA TEACHING PRACTICE OF PAINTING APPRECIATION**

In the multimedia teaching practice of painting appreciation, we should balance the issues of instrumental rationality and cultural rationality. Modern multimedia teaching technology has high technical content and develops and updates constantly. In order to give full play to the role of modern multimedia teaching technology in the courses of literature appreciation, the teachers should grasp the following points. What needs to be pointed out is that the teachers have to notice and prevent the negative effects caused by the improper use of multimedia technology, so as to avoid them effectively.

**Teachers should continue to learn and update teaching concepts, but not superstitious**

There is no doubt that the modern multimedia teaching technology obtains rapid development and application under the drive of modern science and technology. Firstly, the system's overall service capacity is very strong, especially the storage ability and computation ability of complicated problems. The advantages of cloud computing technology have been fully displayed in this system. It makes the Shared resource capacity and computing power of distance education get great improvement. Secondly, the system makes it become possible to establish a unified national distance education platform. At the same time, it can realize the unified deployment and resource construction of each local distance education center, which can effectively avoid resources wasting and reduce the cost of education. Finally, according to the different needs of users, the system can configure the learning resources flexibly. It does not need to change the code function to customize their learning system based on user needs. And it does not need the independent deployment of the system.

**Teachers should master the skills of multimedia education, and human’s subjective initiative can not be ignored in the classroom teaching**

In the propagation process of education information, the modern media has great advantages and is used widely. Because the application of the traditional teaching mode in them multimedia education platform has the disadvantages of data incompleteness, data recovery difficulty and poor privacy. So, this paper applies the cloud computing method to the distance education platform and puts forward a
network education platform. This platform can integrate education information resources effectively and improve the utilization rate of education resources drastically. Through analyzing and researching the teaching characteristics of network multimedia, practice has proved that the system has made great progress in the aspects of teaching quality, resource sharing, reducing education costs and flexibility compared with traditional teaching methods. We can say that the efficient computing power and great storage capacity of cloud computing has been fully reflected by the distance education platform, which makes the level of our country’ distance education to get a whole improvement. Therefore, teachers never forget their dominant positions in teaching and become a pure audio-visual picture projectionist.

Teachers should make thorough research and global grasp to the painting appreciation teaching materials. Closely combining with teaching contents, they should introduce the commercialization outstanding courseware appropriately to teach students.

The purpose of using of modern multimedia educational technology is to improve the quality of teaching. In order to obtain a better teaching effect, the painting appreciation course uses the multimedia teaching based on computer. It can change the teaching methods of teacher-centered and one-way indoctrination. To a certain extent, it can reflect the charm and the strong appeal of the painting art. This makes the painting class more vivid and the teaching more intuitive so as to stimulate students' interest in painting lesson. When making the multimedia courseware of painting appreciation, we should elaborate it based on the actual situation and the subject characteristics and adopts the flexible multimedia teaching method to obtain the ideal effect. The practice proves that the effect is very good using multimedia teaching method in painting appreciation course.

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