



# Design and Realization of University Chinese Distance Multimedia Education System

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**Abstract.** With the gradual departure of Chinese society from a well-off society, the Internet has also entered thousands of households, and has naturally become an indispensable part of the summer life of many students. Correct use of the Internet has become a compulsory course for modern people. The exchange of information allows students to understand a lot of factual politics. However, the distance education system inevitably needs to be updated and improved continuously according to the specific application situation. The Internet allows us to get vivid and colorful information. Through the Internet, we can get some simple pictures, texts and clear frames. We can watch videos and TVs on the Internet to enrich our extracurricular life and entertainment. The characteristics of this network broadcast have a heavy weight in the distance network education system, which can make up for the future development of distance education and make network teaching increasingly mature.

**Keywords:** College language · multimedia technology · education system · computer technology

## 1 Introduction

College Chinese is a learning method that is beneficial to students. It can help advanced network technology and a superior learning atmosphere to create a condition for learning even if you are not in school, so that students who cannot come to class in time can enter the classroom to complete their learning [1].

The college Chinese multimedia distance education model turns the original offline classroom into online, so that students can communicate with teachers in the dormitory, and it also allows teachers to reduce some distance and communicate with students. College Chinese has a refreshing aspect, it can modernize and educate college Chinese courses, translate the most common textbooks into pictures and texts, have ppt and favorite game interface, and play music and listen to music together, which is very helpful for students [8]. It's a new thing for students, and they can learn it easily with simple operations. This is a good thing for students. In the case of the epidemic, it can also solve the problem of class perfectly. If the teacher is delayed because of things, he is also qualified for the class. The face-to-face communication on the Internet is not inferior to the offline class. When students use it, they will find that they can effectively master relevant knowledge and improve their learning ability, thereby stimulating their good reading mind and making them better have the fun and interest in learning [2].

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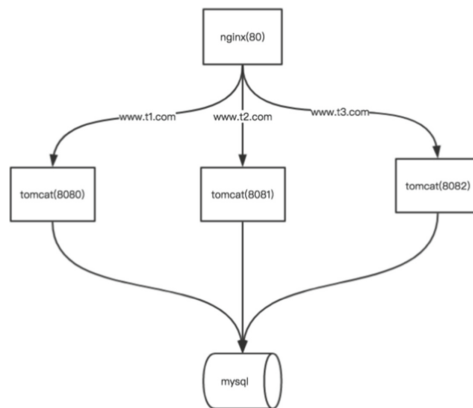
[https://doi.org/10.2991/978-94-6463-024-4\\_58](https://doi.org/10.2991/978-94-6463-024-4_58)

## 2 System Introduction

Multimedia distance education and training system adopts B/S structure, which can be directly viewed by customers, and has more than two kinds of media human-interaction technology. They have two meanings: one is comprehensive and the other is interactive. Satisfy the students who are inconvenient online and offline. They can take online exams at the same time. Its software brings convenience to users. In today's era, we can't stay away from multimedia. It can do things that we can't do., its main features and purposes are [3]:

- a) e-learning;
- b) low cost;
- c) Application server operation data;
- d) Substation training system;
- e) Simple maintenance and upgrade;
- f) Hardware environment data exchange service (Fig. 1).

Network-based multimedia distance education, as a new type of education method, has a strong ability. In the distance network education system, the strength of the network and the power of distance education will be demonstrated in the future. All the information on the network will be clear for all kinds of software to communicate with each other. As long as you log in to a software, your information will be available on the entire network show. There are pros and cons to this. Although we are pursuing convenience, we must not lose our identity information. There are many hackers on the Internet who use bad means to steal your information. The multimedia system allows us to learn a lot and is of great help to us. For example, the popular currency is now talking to our WeChat, and we can see each other on our mobile phones when we are far away. Under the effect of education, students rely on self-awareness, love to learn, develop together, and have a spirit of courage, which greatly improves their interest and strengthens their ability to learn by themselves [5].



**Fig. 1.** B\S structure

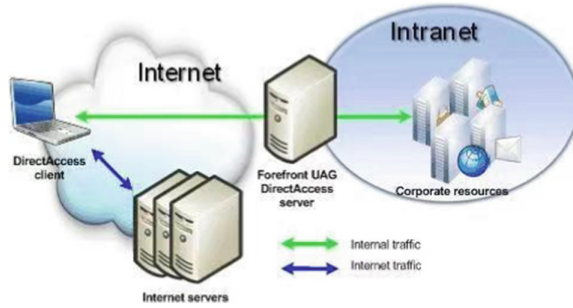


Fig. 2. The structure of the multimedia distance education system

### 3 System Structure

The system structure is shown in Fig. 2.

They are advanced, convenient, multi-functional, practical, open, extensible and easy to use. Advanced educational methods enable students to have a superior learning environment, and they can also break away from fixed educational concepts and be full of new things. Curiosity. The multi-functional openness opens an open amphitheater. You can choose which classroom to go to. You will have a lot of choices. It will give you an open space, and at the same time, you will meet some new students and discuss course issues together. A better point is to have security, which is the most important point for us to protect our personal safety. Even if we use the Internet, we can rest assured that our personal information will not be lost or stolen [4].

### 4 Operation of Client and Server Software

The system terminal mainly uses the TCP/IP protocol to form a direct connection point between the server and the client, and also helps them to transmit important files, and has both receiving and sending services [10].

The server mainly runs the information sent by the client, receives and rectifies and then transmits and judges, and then the purpose of transmission will appear. After the information is successfully received, the client's IP address will be remembered in the network.

When the client is running, it works with the server, and will automatically enter the information on the page based on the information left on the network, and will remember the secret. Students only need to check the information or enter the first page of the website. jump [6].

After a period of use, I believe that both students and teachers will like this method very much, especially in the case of the epidemic, online teaching is the only teaching method. It can directly rely on the wireless network for class learning, and it is also convenient for teachers and students in their daily teaching. Solving the biggest contradiction during the epidemic [7] (Fig. 3).

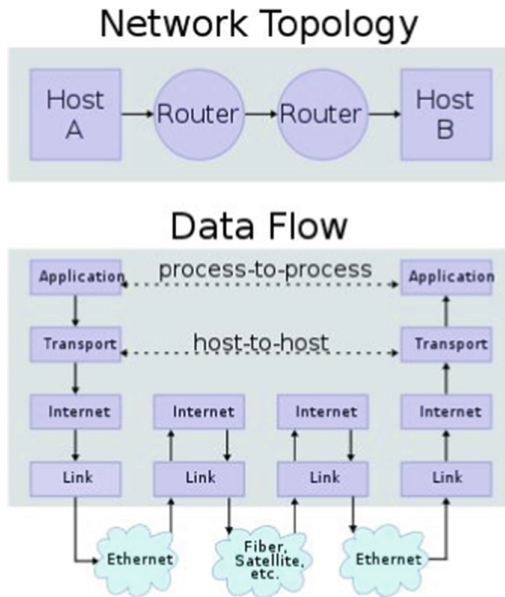


Fig. 3. TCP/IP protocol

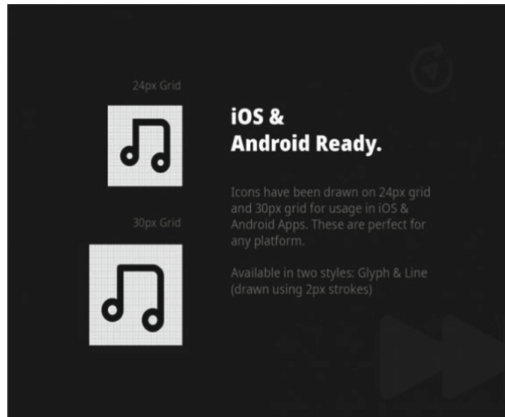


Fig. 4. Multimedia interface

## 5 Implementation of Multimedia

Multimedia combined with the page system using a variety of multimedia technology to complete, the use of Flash, Photoshop, Premiere and other multimedia tools, in the picture you see there will be pictures, text, video and other streaming media, so that the system becomes more colorful, attracted our interest, strengthen our love for it. This is shown in Fig. 4.



Fig. 5. Audio View

In this system, audio and video are loved by students, which not only provides them with a good platform and an excellent environment, but also mainly provides learning methods and expert topics, so as to be deeply loved by students, not only to achieve the recognition of learning Knowledge also has the effect and meaning of success. Taking audio as an example, using different audios also has different operation methods. Users will choose the content they want to listen to according to their own preferences, and can quickly adjust all the signs you can see and have corresponding way of use. If you don't want to listen to this song, you can switch to the next song, which is very close to the user, makes you feel like a fish in water (as shown in Fig. 5), and thus understands the remarkable success of multimedia for us [9].

In the implementation process, the use of JavaScript to write functions to insert system files is also the completion of multimedia applications, that is, the loading of multimedia files. The function code is as follows [11]:

```
Function M M_controlSound(x, s_ ndObj, sndFile)
var i, method="", sndObj=eval(_sndObj);
if (sndObj != null) {
if (navigator.appName=='Netscape') method==
play";
else {
if (w indow. M M_ MP==null)
{w indow. M M_ WMP=false;
for (i in sndObj) if (i=="ActiveM ovie") {
w indow.M M_ WMP=true; break;
if (w indow. M M_ WMP P) method="play";
else if (sndObj.FileName) method="run";
```

```
if (method) eval (_ sndObj+“.”+method+“ ()“);
else w indow.location=sndFile;
```

Secondly, it is necessary to operate the user's wishes. Part of the code is as follows to call the system's player:

```
<script language="JavaScript">
<! --
Function M M _ reloadPage (init) {
if (init==true) with (navigator)
{if((appName=="Netscape")&&(parseInt(appVersion)==4))
{document.M M _ pgW=i
nnerWidth; document.M M_pgH=innerHeight;
onresize=M_reloadPage;}}
Else
if (innerWidth!=document.M M_pgW||innerHeight!=document.M M_pgH) loca-
tion.reload();}M M_reloadPage(true);
// -->
</script>
```

Again, just need to find the link to the media file. The following code:

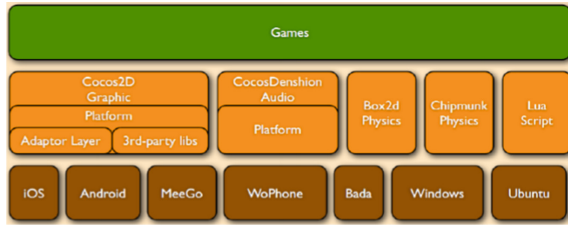
```
<body onLoad="MM_controlSound('play',document.CS1079316125558',.../mmm.
mp3')">
<EM BED NAME='CS1079316125558' SRC='./mmm.mp3' LOOP=false AUT OST
ART=false M AST ERSOUND HIDDEN=true WIDT H=0 HEIGHT=0> </EMBED>
```

In short, we can choose according to the reference value, which will make us easy to understand. If START is to start playing, then ENDT is to end. LOOP is looping etc.

Of course, in the real use process, it still has to be completed according to the adjustment of the system. For example, after the music is added successfully, he will appear whether to set HIDDEN to YES, if you set YES directly, it will form an automatic loop playback.

With the development of information technology, streaming media technology has changed the traditional process, it is more expeditious on this basis, and more importantly, to protect the user's personal information to achieve the shortcomings of distance education, providing an effective solution to solve this drawback. In this series, streaming media technology in the compression, compression is the file, but does not affect the quality, will not be on the same page by other users to download, of course, hypertext files when the current streaming media most effective learning tools, students through a simple web page can quickly become familiar, so that students deeply understand the importance of information technology, increase their learning ability, in order to establish a good quality, thereby promoting the importance of distance education, and the ability to collaborate. This is shown in Fig. 6.

Computer theory is to some extent there are some problems, but as you look at every kind of thing, there will be different fronts and cons, the same will have some advantages



**Fig. 6.** Streaming media use

and disadvantages, have their own suitable space, so students should understand these advantages and disadvantages, can not blindly choose, students are in the most central point, the teacher is around it to walk, the teacher is the encourager, they also put forward the actual learning, identify things, firm learning and other educational concepts.

For now, does distance education have the same effect as traditional face-to-face teaching? The results of the study are that successful distance education is no less than traditional education. And in the use of distance education can be very clear according to their own interests and preferences to decide, learning can be in a variety of ways to choose, the integration of diversified teaching quality, the development of distance education is on the basis of the original, improve its shortcomings, so that users more clear choice, enhance the quality of education bridge and stage [15].

## 6 Conclusion

The college Chinese distance education system has a strong food chain. Each layer has its own characteristics and indispensable characteristics. They can be passed down to us layer by layer, so that we can receive the information we want. This can also increase the communication opportunities between them, and can also improve students' enthusiasm for learning and a vibrant spirit. The college Chinese distance network teaching system also has an excellent improvement in educating students. By developing good study habits and active learning only for grades Students can learn knowledge, make students know the benefits and charm of the Internet age, so as to better improve their quality and ability, promote the development of distance education, and advance to the new era. The bridge between the two sides at the same time to solve the problem. New era and new development, and jointly create a new Internet era. This system accelerates the process of entering all aspects of the family and society, bringing a profound revolution to people's life, work and entertainment [12].

Modern distance education is not only a method of teaching by teachers, but also a filling in the field of education, and it is also an expansion of the horizon of education. Because multimedia computer network communication technology can build cognitive and thinking tools for the learning environment, it can effectively promote students' learning theories, and show strong vitality, pushing us to develop the concept of modern education to promote our learning. They have different advantages and disadvantages, each with their own scope of application, so they are mutually helpful, and no one can replace anyone. In the actual situation, we must give methods in a full form according

to different situations, different teaching objects and methods, and achieve excellent teaching results [13].

The remote multimedia teaching courseware is based on the Internet, which is more intuitive than the mobile teaching course, so that the teaching content develops rapidly, and the content of various courses is more intuitive. On the basis of the network system, the continuous innovation and efficient multimedia teaching courseware system, the complete multimedia system and the needs of teachers and students are combined together to create the future together [14].

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