

A Study on Construction of Micro Video Network for Teaching Chinese as a Foreign Language Based on Open Source Platform Edusoho

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Received: May 13, 2017; **Accepted:** July 11, 2017; **Published:** August 25, 2017

Keywords

Edusoho, Chinese as a Foreign Language, Micro Video

This paper expounds the importance of constructing micro video network for teaching Chinese as a foreign language, and uses open source platform Edusoho to realize that, which focuses on the construction and implementation of design and function for campus video website, providing a good example for Chinese education video website construction.

Introduction

With the rapid development of Internet, the application of streaming media technology is becoming more and more popular. The process of the major universities of the digital campus construction continued to deepen, to optimize the basic network environment of campus, application of streaming media technology in Colleges and universities have got rapid development, greatly promote the development of campus media, video website is an important media form of campus media [1]. Chinese micro video website carrying foreign language information exchange, video teaching, Chinese grading and other multimedia resources, foreigners in learning Chinese Information Center, is an important platform for communication among teachers and students, but also an important platform for cultural exchange [2]. The construction and application of micro video websites for overseas Chinese are the perfect combination of information technology and Chinese cultural communication, and also the inevitable outcome of the development of digital campus.

Method

Build a Unified Platform for Cultural Propaganda

Chinese culture is the cultural background of every five thousand years of Chinese history. It is a carrier of Chinese culture and a window for the spread of Chinese culture. As a platform for learning Chinese culture, video websites for overseas Chinese must be free, unified, open and innovative so as to form a cultural platform for the unity of teaching and cultural publicity.

Establish a Unified Learning Resource Center

Multimedia teaching resources play a very important role in education, and it is more common in teaching in different places. Chinese lovers all over the world will buy resources from different websites according to their own needs [3]. In recent years, with the rapid development of MOOC (massive open online courses), the research focus of education technology is focused on MOOC. Education is being transformed with the emergence of MOOC, and MOOC resources have become an important

teaching resource for teaching Chinese as a foreign language [4]. Video website will the various channels of learning resources together, establish the teaching resource center, knowledge, entertainment and service in one of the network teaching in multimedia digital video resources to assist schools, training institutions, greatly deepen foreign Chinese education informationization.

Build a Unified Original Video Release Platform

With the rapid development of media technology, independent shooting and micro video release more and more easily, as teachers can easily put their course into micro video recording, the Chinese micro video network such a media publishing platform of the video release out, students can through micro video autonomous learning, the teacher can also use micro video in class teaching, foreign language learners can also learn independently through the network [5]. Video websites provide teachers and students with a platform for learning, exchanging and displaying themselves. It is an important position for the training of talents in teaching Chinese as a foreign language.

Function Design of Video Website

General Idea

Cloud based Chinese language learning micro video website with interactive function. With the micro teaching video, scene simulation teaching video, animation, video and entertainment integrated teaching of traditional culture interpretation of the classic video, video dapper [6]. At the same time, the website provides students registration, placement study and group discussion, teacher answer questions, after-school tests and other functions. Access mode supports both PC and mobile access.

Product Technology Plan

The product is built on the cloud, and the OS chooses Ubuntu (14.04), which is a Linux system with high stability and high performance. It is obviously superior to Windows system in website server. Site selection framework Edusoho, EduSoho is an open source online education software Chinese first combination of cloud computing, a B2C independent school system, suitable for rapid construction of personalized online network classroom platform for enterprises and individuals. The system is based on PHP language and MYSQL database framework developed by cross platform open source program. EduSoho can be applied to individuals, institutions and other remote teaching training system. Especially suitable for training organizations / individuals to open independent brand schools established large-scale open course micro courses, flip the classroom network classroom platform for higher school (MOOC) platform. The course release system supports four types of hours: video, graphics, audio, and PPT. In addition to publishing videos independently, you can also cite outside video stations (videos from You Ku, Potatoes, and Net Easy).

System standard operating environment:

Operating system: Linux. For example, Fedora, CentOS, Gentoo, recommend the use of Ubuntu

Web server: recommend Nginx or Apache2

MYSQL database: more than 5 versions are recommended

PHP version: recommended above 5.3.17

Construction of Characteristic Foreign Chinese Micro Video Website

Free combination can enhance the teaching effect, the teacher according to the teaching ideas of their own, free combination of different teaching methods, to achieve a variety of teaching methods, such as conversation, discussion, activities and competition etc. [7]. Even with the same content, it can teach different effects. The game - based learning experience makes learning as simple as upgrading. Teachers can organize the course content in the form of tasks and set goals and standards for each learning task. Students only need to follow the task instruction, complete the study, and obtain the corresponding feedback, study more active [8].

Characteristic Teaching Content

The site collection and production of teaching video in micro class, short course. A micro video teaching a point of knowledge, students can study online independently, can also be used for teachers in the classroom to assist teaching.

Making scene simulation teaching video. The users of the website are mainly foreigners who study Chinese. As the most difficult language in the world, Chinese has given up learning because of the difficulty of learning and not having passed the study [9]. In addition, because of the difference of culture has increased the degree of difficulty of learning, for example, students in the learning process Chinese characters in many Chinese characters are pictographic characters, as shown in Figure 1, Should be able to see the evolution of Chinese characters with pictures and video of the form to the learners, so that both the image and also make students more easy to remember. In order to understand the evolution of the cultural understanding of Chinese characters, China [10].



Figure 1. Illustrates the study of pictographs.

In addition, the website use the means of information can be extracted from the video students or teachers in the background in a virtual environment, to adapt to the teaching link of the scene, a scene simulation teaching form, so that learners have a feel personally on the scene.

Edutainment integrated animation teaching video. Mining the teaching content of "entertainment", "recreation" teaching so that students from the dependence, imitation and transformation of passive rote for entertainment, games, exploration, communication, greatly stimulate the learning interest of the students, find the learning self-confidence, reducing the burden of student learning, provided basic quality high students, also enhance the user viscosity website.

Classical culture, classic interpretation, video, video. The process of learning Chinese involves many Chinese cultural classics, such as Tang poetry, song lyrics, idioms and cultural allusions [11]. If the content is required for direct reading, the level of Chinese is very high, and may not be able to read it. If the content is filmed or simulated in the form of video interpretation, the learning effect will be improved qualitatively. In this way, we not only learn Chinese characters, but also learn the essence of

Chinese culture.

Result

According to the above website construction mentality, according to the research results, a website was implemented. The website is "mc.ccu.edu.cn". In order to enhance website functionality and allow users to have a better experience, the web site provides functions such as table 1:

Table 1. The main functions provided by the website.

No	classification	function
1		Registered students have their own home page to show to other people on the site
2		Notes, materials, students can always record the main points of knowledge, view, Download class information
3		Support for mobile client learning (iOS, Andriod)
4		Online exam bank examination system
5		Support standard definition, HD and super clear playback
6		Scan two-dimensional code directly log on campus
7	Routine function	Video, audio, graphic learning
8		Review the learning progress
9		Let the school information system can publish content information, let the students understand the school news, in addition to open course content outside the entrance flow
10		Support for ad free video playback
11		Support flv\avi\wmv\mov video format upload, three levels of video encryption, support standard clear, high-definition, ultra clear playback
12		Topic management, title type, support selection questions, fill in the blanks, judgment questions, questions and answers, material questions
13	Teacher function	Generate test papers intelligently according to degree of difficulty and course scope
14		The paper examines
15		Batch import
16		Take part in an examination
17		Exam analysis
18	Student function	VOD system
19		Notes, materials, students can always record the main points of knowledge, view, Download class information
20		Effective communication between teachers and students, students and students in question and answer area

Discussion

The website has been tested and tested in foreign students in our university, and 50 students have been investigated by using feedback:

Table 2. User satisfaction questionnaire.

	Very satisfied	Relatively satisfied	Dissatisfied
Access speed	45(90)	4(8)	1(2)
Web content	49(98)	1(2)	0(0)
Website function	40(80)	6(12)	4(8)
UI	40(80)	8(16)	2(4)

From the survey results can be seen, the site access speed has been recognized by most people, the content of the website is different from other websites, very popular, but also proved that the construction of the website is correct. The function design of the website and some less, not satisfied with a small number of people, UI web design is not ideal, there are 16% people satisfied, 4% of the people are not satisfied, can be seen to compare the value of UI design on the website of the user, we need to further strengthen.

Conclusion

The information technology innovation, brings more choices to video website developers, using open source platform Edusoho for the construction method of building Chinese based micro video website, video website content construction and the

characteristics of the form, is established to provide a choice for the Chinese international communication resource library, provide a positive reference for the development of other similar sites.

This research was supported by Project of the education Science of Jilin province "The Thirteenth Five Year" Plan (Project No.). ■



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