Design and Implementation of Music Teaching System Based on Streaming Media

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Abstract: Streaming Media is a Kind of Streaming Media, It is a Can Make Audio, Video and Other Multimedia Information in the Internet and Intranet in Real Time, without Playing Technology Download Waiting Way. It is the Realization of the Traditional Media Network, and through Online on-Demand Play to Visitors. Teaching Information Management System is the Music School Music Teaching, Educational Management Application Software. All Familiar with the Process of Music Teaching Management Work, Starting from the Actual Music Teaching Work, Solve the Difficult Problem of the Key Work in the Realization of Computer Management in the Whole Process of Music Teaching, Management of Specific Help Liberated from Complicated Work.

1. Introduction

The Entry into the New Century, with the Rapid Development of Internet and Multimedia Technology and Wide Application of Network Information Technology Increasingly Affect All Areas of Social Life and the People of the Music Information and Knowledge Acquisition and Learning More Convenient, with the Improvement of People's Life, People Pursue Spiritual Enjoyment is a Kind of This is a Culture, Music Can Make People Enjoy the Spirit of the Art Has Become a Widespread Pursuit and Appreciation of Direction [1]. But Because of the Digital Music Resources More and More, It is Difficult to Manage, and Management Efficiency is Not High, the Management System is Relatively Lack, and the Realization of Music Resources Has Changed the Situation. is a Digital Music Interactive Website, the User through Its Convenient, Fast, Safe and Pure Music to Achieve the Classic Music Search and Music, Online Audition, Download Their Favorite Music, for the Vast Number of Users to Establish a Network of Pure Music Resources Management and Collection Platform.

In Recent Years, Everyone on the Ordinary Schools (Non Music Majors) the Task of Music Classroom Teaching of a Fierce Debate: Music Classroom Teaching Objective is to Enhance the Quality of Students Mainly, or to Grasp the Basic Knowledge of Music, Skills? Have a Broad and Profound Impact of the Various Arguments for Music Teaching, from the Music Classroom Teaching Syllabus, Textbooks, Principles and Systems, to Practice and Evaluation of Music Teaching, Are Involved in These Two Aspects. If These Problems Have Not Been Solved, is Bound to the Music Classroom Teaching, School Music Education Bring Unnecessary Losses.

With the Global Informationization, Our Entertainment Activities Are More and More Abundant. in the History of Human Development, the Development of Streaming Media is More and More Advanced, the Earliest in Our Understanding of the Media At the Beginning, We Might Immediately Think of All Newspapers and Magazines, Radio and Television, Black and White Tv and Movies. Talking about a a New Term Now Emerging Streaming Media, Most People May Think It Has Some Relationship with Usually What We Call the Media. in Fact, the So-Called Media Streaming Media with the Wind Horses We Usually Referred to the Phase and Not.

China culture is broad and profound; there is a lot of drama. Early in the history of human civilization, entertainment occupies an important position. In the absence of the media, when the

media flow, the music is dramatic elements, see the video also has substantial drama and dance performances [2]. Is personally attend, after the media and streaming media, we have more entertainment. Especially the spread of Internet streaming media is to enrich the public life.

Streaming media English Name: Stream Media, it is actually a kind of streaming media, it is a can make audio, video and other multimedia information in the Internet and Intranet in real time, without playing Technology Download waiting way. It is the realization of the traditional media network, and through on demand in the form of broadcast to viewers. Streaming media playback mode is different from the online download, Download Audio and video files need to be downloaded to the local machine in the play, streaming media can be achieved while downloading watch, this is where the characteristics of streaming media [3]. With the development of broadband technology, streaming media technology has been widely applied in the page, the successful implementation of the Internet on demand, online video, online broadcasting.

Personal network streaming media, streaming media and mobile streaming media before only play on the computer, but the Internet age will need these digital devices "solidarity", realize the interaction between TV, Internet and digital equipment, streaming TV came into being. The streaming media TV for MP3, and it is camera, camera, and mobile hard disk. U disk and a variety of card content broadcast directly on the TV, so information sharing. Streaming media TV not only has all the functions of flat-panel TVs, more compatible with 1200P, 1080P and other HD format, so that consumers in the interaction between TV and digital equipment, become the center of the display of the true digital home products. Real streaming media TV is a kind of industrial structure, like that of digital TV, only a TV can only say with streaming media technology, specifically not to call it as streaming media TV really. Is the streaming media TV is a kind of industrial structure, to integrate various resources, the industrial policy, and the relationship between upstream and downstream, composed of many elements and user terminal equipment.

2. The analysis of music teaching management system

N Music is the art of emotion, wonderful music comes from emotion, and imperceptibly influences the emotion, let us enter the virtual reality and the magnificent and colorful artistic conception. To back hundreds or thousands of years, until the original music at the beginning, I believe that music is to talk rather than performance, is natural the outpouring of skills is not exaggerated, self intoxicated rather than the applause of others. Because of love and moved, because complete with defects of life, because the mind is clever and creation. So the music not only in music, but in our hearts [4].

As everyone knows any format music to play music player software, then music player software is through the principle of what kind of music playing? Music player interface is the audio decoder, the decoder is the essence for a variety of audio encoding format. For example, the APE format is called Monkey's Audio decoder, FLAC format call the FLAC decoder, and MP3 call the lame decoder. Most of the music player supports a variety of music file format, it is because these players will audio decoder different packing up and making the same player interface, so that users can easily play and listen to all kinds of music.

At present, the country's education system is in constant reform, innovation stage, China's education sector to fully absorb foreign excellent music teaching mode, combined with the years of experience in education, and gradually explore suitable China music teaching form, therefore the national Ministry of education for all types of schools at all levels to carry out a comprehensive reform of the credit system [5]. Therefore, various colleges and universities urgent to improve and upgrade the existing educational management system. According to the current management mode of domestic universities, combined with the idea of a new international environment in the campus network, the construction of advanced information management platform, with the international level. To improve the modernization level of school management, which will be an important part of the public school the information service system. In this environment, choose "music teaching management information system of the design, in accordance with the actual needs Pray.

Edu Office music teaching integrated solution is the set of music teaching workstations, multi

touch LCD screen, MIDI keyboard music, play demonstration classroom video camera, panoramic camera, video display platform, network switches, pickups, audio and other variety of hardware equipment in one of the music teaching integrated environment.

The teaching system includes: the music interactive teaching modules, teaching music playing module, music teaching module, performance demonstration and teaching activities display module, embedded PowerPoint courseware module, embedded Word and PDF documents on the module, multi function recording module and the multimedia teaching should be a video booth, animation playback, video playback. Picture browsing, web browsing and other functions, and provides a wealth of music teaching resources, and can seamlessly connect any music textbooks, to meet the needs of general music teaching in primary and middle schools.

This website is a music education as the theme of the website, this paper will introduce the website material organization, production process ". The characteristics of part of this web site is the online message function. It includes: message board application, messages, browsing, moderator management functions. All data read and in through the establishment of the Access database server. It is my task in the establishment of" marriageable age music network "website, the use of ASP technology, with a personalized message board added on this website, to achieve inter user communication between users and administrators.

With the improvement of people's living standard is the reform and opening up today, music has become more and more people's spiritual sustenance. As the Internet is every kind of player software popular in our country with, as is shown by equation (1).

$$\begin{bmatrix} x_{11} \\ x_{21} \\ x_{12} \\ x_{22} \end{bmatrix} = L_i X_i = \begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix} X_i \qquad (1)$$

Although the future of the music player will have a variety of rich and colorful features, but as a multimedia audio application software, is the most basic, most can get the number of users [6]. The decision factors

The above analysis based on high quality, beautiful appearance, compact and powerful is the main trend of the future development of the player. As a music lover and a member of the software engineering to write a small powerful music player is a very rewarding thing.

With the rapid development of computer network technology, the traditional desktop system, CS system architecture has been unable to meet the needs of the society. In today's society is a social network, e-commerce system, enterprise information system has entered the network application stage. How to develop web applications to adapt to different industry people is a difficult problem in fast in front of the people. The choice of what kind of development platform, development tools, programming language, the development of technology directly affects the development of the information technology industry,.NET brings a new development framework, it has become a revolutionary development.NET new technology information development for Web development, component development, data development, GUI development VB, or any Windows based platform for the development of personnel, information technology solutions for the NET industry, a new development model can enable developers to better, more rapid. Finished work.

The embedded PPT player. The PPT window demo mode, convenient for teachers to open multiple put coursewares at the same time, and it is according to the needs of teaching courseware using different ppt. The first page is the last page, a page, the next page function, lock the PPT teaching contents in the teaching process. To facilitate electronic display of the unique way of the curtain wall directory, convenient for teachers to make classroom summary. Provide a pen, eraser, copied to the whiteboard teaching tool. Support the use of the PPT courseware with handwriting annotation saved to the original file, as is shown by equation (2) [7].

$$g = \begin{bmatrix} g_x \\ g_y \end{bmatrix} = \begin{bmatrix} \dfrac{\partial I}{\partial x} \\ \dfrac{\partial I}{\partial y} \end{bmatrix} \qquad (2)$$

The embedded WORD/PDF on the word/PDF window. The demo mode, convenient for teachers to open multiple word files in the whiteboard equipment, according to the teaching need to use a different word file. The first page, the last page, a page, the next page function, convenient for teachers in the teaching process to lock the word unique electronic teaching contents. The curtain wall display way directory, convenient for teachers to make classroom summary [8]. Provides a transparent pen, pencil, arrow pen, pen eraser; identification; copy to the whiteboard teaching tool. To enlarge, narrow function convenient presentation of teachers in the teaching process of small size document.

With the people's life is getting richer and richer, the quality of life has become increasingly high. Music has become an indispensable part of people's life. A time all big and small music websites have set up. In many personal music sites, there are many excellent websites, but the financing situation, immediately became a professional commercial music website. The mass base of this kind of website, once they successfully reorganized, enough to challenge other music website. Now most of the music website to set information, culture, art and music network entertainment.

Website home page: the first impression is the home page, to let the people willing to continue to appreciate it. I design the home page is concise and clear, color to bright, are warm, relaxed feeling. The most eye-catching page is a flower is open flowers, a symbol of the future of the motherland vibrant looming five background. Horizontal lines represent the stave, show that the website music entertainment theme. Artists including music, music sense, music, music appreciation and theme picture five. I have E-mail so that users can contact me.

TT Player is a custom designed for a new generation of free music download music player software. To provide millions of songs free trial download, with the latest and most popular songs, the first time to provide high quality music information; (320kbps) music download songs, give ear better enjoy the stunning intelligent voice; search song function make songs more efficient; free mobile phone ringtone download songs; easily drag lyrics, keep the lyrics, support listen and sing; support online download; limit traffic alerts.

With the rapid development of Internet and multimedia technology and management applications, new technology is lagging behind in music situation is gradually improved, both at home and abroad for online music education and research resources are increasingly rich, in various art schools at home, School of music have started construction for college music appreciation teaching the use of Library Resources from the beginning to the idea. The music resource library at this stage is under construction, but most of them on the campus network platform for the establishment of music database, there are other educational resources the same their resource library in the planning stage over the pursuit of "big and complete", the implementation phase of the manpower, material and financial resources to there is only a shell that finally, the actual utilization rate is very low. Their resource management is not in place, the ideal repository is not reached in construction.

All the things in the world can be called a system, can be used as a system to study. A system itself is part of a larger system. It belongs to our music classroom teaching as the research object; it can put on it as a system. It is a music classroom teaching the multi-level structure system, the music teaching system is subordinate to the higher level of school music education system, education system and school music education system and belongs to the greater [9]. The study of the music classroom teaching system, must first be clear at what level. As a certain level of music teaching system the investigation, which targets at the time of the study, it is necessary to understand the level and more of their subordinates and hierarchical relationship. Only clear the problem, we can proceed from the overall situation, to study the level of music teaching system from the perspective of the target system, not only the "school music education" and "music teaching" and "a music class" of these three different objectives confused.

3. The streaming media server provides the basic structure of the player and the operating system

Now with the development of science and technology, people's life has become increasingly rich. From 1994, a company called Progressivenetworks Company in the United States at the beginning of the establishment of streaming media on the Internet began to officially debut. A year later, they launched the c/s architecture with real audio system, and led the raging tides in September.1997 network streaming technology in the next few years, the company changed its name to Real Networks, have issued a series of a variety of streaming media player RealPlayer is widely used, in its heyday, once occupied the area of more than 85% market share. Microsoft is one of the original Real Networks investors, but it soon found the "flow" value, covet this huge potential and vibrant market, so unceremoniously launched its new format of streaming media products, has since opened a prelude to a head-on confrontation with Real Networks.

In any system, before the input has not yet been determined, its output is diversity, this system is in the intermediate state. The output of the system can be understood as the function of the system, can also be understood as the target of the system. The system has been introduced in the music classroom teaching is the subjective condition, its goal also has diversity. The diversity in the system refers to the intermediate state, can move to the direction of change, or have a variety of goals. Of course, this is not a multi-directional irregular, it is decided by the internal and external conditions in the system. To make things change (system) to a target, must have two conditions, one is the possibility of something has, one is the external cause of the world movement.

Real Networks is a set of streaming audio and video solutions developed by Real. It is also the most popular and widely used streaming media technology. Windows Media is a streaming audio and video solution developed by Microsoft Corp, as is shown by equation (3).

$$O_{\mu,\nu} = I(z) * \psi_{\mu,\nu}(z) \tag{3}$$

QuickTime is a streaming audio and video solution developed by Apple Corp. The latter is not very high on the network, so we use the streaming media technology of Real Company to realize online audio-visual

Real Networks media player in the market share increased, partly due to it and AOL Time Warner Company reached an agreement. Under the agreement, the AOL Time Warner provides users with the latest version of the AOL6.0 software in RealPlayer was designated as the only built-in media player. Only after the signing of the agreement. The last 11, 12 months two months to Real Networks increased 5 million 100 thousand users, but also through AOL RealPlayer "gradually added to the number of people who use force" is still increasing. However, RealPlayer market potential is still great, according to the latest statistics released in January this year, estimates RealPlayer player at least 25 million households and 10 million 200 thousand professional the user of the market "gap."

Refers to the use of streaming media streaming in Internet/Intranet broadcast media formats, such as audio, video or multimedia streaming media files. In front of the player to download the entire document is not only part of the contents will begin in memory cache, and make the correct output of media data packets in the computer. The streaming media data stream transfer at any time at any time to play, compared with a simple way to download the multimedia file playing while downloading, streaming transmission mode not only makes the startup delay time greatly shortened, and the system cache capacity demand is greatly reduced, greatly reducing the user waiting time. In general, the streaming media is refers to the use of streaming transmission technology for time-based media in the network. - if the file transfer is regarded as a process of water, as the transmission mode of the past is for the user to do a Provisions must wait until a bucket of water to fill in order to use it, the waiting time to be influenced by the size of the flow of water and the bucket size effect. While streaming is open, the dragon head, the water will flow out Ever fount, and can be connected with the use, therefore, regardless of the water flow, also no matter the size of the bucket, the user can use the water at any time. In this sense, the word flow media is very vivid.

Cool dog music is interactive digital music service provider China's leading Internet technology innovation leader, is committed to providing the best solutions for the Internet users and the digital

music industry, the company's mission is to become the region's largest digital music sales promotion enterprise. Since the establishment of the company, has been in the development of digital music a bold attempt, and has dozens of record companies, copyright management agencies to explore the development, has accumulated tens of thousands of the first digital music copyright, and promote a wide range of cross industry, and make efforts to cross platform cooperation, to make their own contribution in the global digital music process difficult. The world's most popular free Chinese player software that pop music search platform.

Software features: 1, mini interface, the interface is more cool, gorgeous fashion; maintain the perfect performance of Windows Vista and XP, let people find everything fresh and new; 2, Cara OK cool dog original "Cara OK" lyrics, a variety of models, listen and sing, let you listen to more fun; 3, in support of the music perfect sound playback, support all audio files, local file drag and drop, and support network high-speed download and local play; 4, super search and download songs search engine optimization, to improve search accuracy; intelligent save bandwidth, can close the network function; 5, pop music cool dog information list family, friends recommend, cool now, the kennel, the latest pop music friends, good music to find you; 6, personalized mobile phone CRBT DIY, have the individuality of the bell 7, audio format I chose my songs I made, I decided the 8 tone sound, dynamic radio The music recognition experience selects many stations, listens to the global situation change, more can recognize the music in the radio station

Streaming media is a multimedia file, the transmission network in the process of application of the current technology. The current technology is to complete image and sound data are compressed and stored in the web server, users can download edge information, to take the whole network transmission technology after compressed file download watch again. Streaming media systems generally have the following components: the conversion / transcoding tool (encoder), used for compression conversion; server (server), the management and transmission of large amounts of multimedia files; encoder (Scripter), the integration of multimedia, and to interactively render; player (player), showing the contents of flow at the user end. The man who was the image of the streaming media to shower, water is always new, compared to bubble bath, which is obviously a more efficient and more convenient way to save, the only bottleneck seems to be the only Bandwidth

However, the development of network technology for broadband network is gradually popular momentum and realistic pace, bottleneck in streaming media are quietly being broken through. The soil is fertile, once the sun and the air is sufficient, the "flow" of power is bound to burst one day, and the day seems to have been far away. From the Yankee Group said that the media is expected to flow in recent years has become a hot field, the turnover will reach $3 billion 100 million in 2005.

This prediction is of course based on the increasing popularity in the broadband network. Whether at home has been more used in education, broadcasting, government, telecommunications and other sectors still, the main application in the enterprise network in the staff training, information broadcasting, product release, remote monitoring, video conferencing, customer service and other services, streaming media in the broadband network popularization pace in the area of thin body The material contains a huge potential, so high and bright certainly attracted Microsoft's attention.

At the end of May this year, Microsoft announced the more than 150 support Windows XP media technology and the format of the list of vendors, across a computer network and entertainment industry, Microsoft intends to adopt tying and alliance strategy, combined with the traditional operating system advantage, an analyst in wma format to seize the Ail Time Warner MP3 format and real format in the mainstream music and images offside said: "this strategy has always been the tradition of Microsoft, Microsoft and apple in the early Pinzheng era, it is relying on to attract application developers to enhance the windows platform." behind the streaming media leadership in the field of competition, Microsoft wants to can not just let that several opponent vanquish, but has tried to deeper: borrow bundled into [10]. The momentum of the system Windows media player to drive its entire windows platform server software market, and then create an atmosphere for its.Net strategy to create

Real Producer is a special Real file editing software. It is launched by Real Networks company (Real Audio/Video, making Real format audio and video files) production tools, the original video

files DAT, MOV, AVI, AU, MPEG files compressed into Real video files (RA, RM, RAM). In order to facilitate the transmission on the network and Real Producer is undoubtedly a best conversion software. It is still one of the biggest characteristics, but also we do Real server must, is that it can be transformed into audio video file stream, this file is the audio and video files can be transmitted according to the different quality of browsing speed the detailed contents, we will in the future specific transformation.

Helix Server is the core software of the streaming media platform, media server software Real. It provides RM, RMVB, FLASH, RP/RT, MPEG-1, MPEG-4, QuickTime, streaming media format ASF/WMA almost all popular support. Through the establishment of Helix Server, so that visitors can access the server the audio and video files, thus to realize the online audio-visual. Here, don't build Helix Server streaming media server, if you are interested, please refer to the online tutorial.

Streaming media advantage lies in multi point concurrent IDE 1 servers can support at least 100 concurrent users professional enterprise 1 servers can support at least 1000 concurrent users, sending and sharing 1 servers can only support up to 15-18 users visit at the same time, this approach will be shared on demand the first out of the technology. - VIDEO on demand (VOD) is an interactive video on demand, is one of the most popular application of high-tech projects in the world, it is with the development of computer technology and network communication technology, integrated computer, communication technology, an integrated technology of TV technology and the rapidly emerging. It uses network and video technology trend. Completely changed the passive mode to watch the program, the program according to the needs of watching and arbitrary playback, set dynamic video image, static picture, sound, text and other information as a whole, for the use of The system provides real-time, interactive, on-demand services

Interactive video on demand platform requirements and characteristics of ----VOD streaming media platform for radio communication field of streaming media value-added services to build, but also a platform for Internet TV and multimedia website platform, realize the diversification of the VOD platform of Streaming Media VOD technology platform is fully synthetic cooked, the development of a set of distributed and WAN LAN based streaming media service system platform, it also supports MPEG-1 (MPG, DAT, MP3), MPEG-4 (AVI, ASF, WMV), REAL (RM, RMVB) and many other mainstream video streaming media format provided for streaming video VOD service. It with streaming audio and video compression card (such as Python MP-4X) or a combination of the embedded WMV server, can provide Internet TV services on the Internet/Intranet.

EchSmith Screen Capture Codec is a component developed by TechSmith Camtasia Studio, Camtasia Recorder used to compress the video files, the biggest advantage is that can guarantee the quality of the image, the interception of the screen after several times of compression, can guarantee high quality. Compared with traditional compression methods, the advantage is very clear.

Camtasia Studio TechSmith is one of its special action screen recording tool, it can easily record the screen action including voice, image in whatever color mode, and the movement of the mouse trajectory. In addition, it is also able to edit audio clips, compression, so as to realize splicing play a variety of sounds. It also includes the output Flash (SWF/FLV), AVI, WMV, M4V, CAMV, MOV, RM, GIF animation and other common formats, is an excellent tool for making video presentation. In fact, Camtasia Studio is not only a screen recording tool, it consists of 5 components: the Camtasia video recorder, Menu Maker audio editor, theater and player.

The player needs to install TechSmith Screen Capture Codec components before running. This component will be packaged and released with the system, and users can download the higher version of the components themselves. Only by installing this component can the lyrics cut function in the player be realized.

4. Design and implementation of music teaching system based on streaming media

Teaching information management system is the music school music teaching, educational management application software. All familiar with the process of music teaching management work, starting from the actual music teaching work, solve the difficult problem of the key work in the realization of computer management in the whole process of music teaching, management of specific

help liberated from complicated work in making. Paperless office and standardization, and it is modernization of management.

The school music education teaching management system to achieve the functions of the allocation of resources, make the college resources optimization, teachers, classrooms, curriculum, time allocation and rational and efficient application to solve the shortage of resources Hunan International Economics University, state department under the multi-level management course, the difficult problem of summary results. The application of school music education teaching management system the student records management, performance summary business more convenient and clearer thinking process; timely feedback on student achievement and music teaching information, to ensure the rapid implementation of music teaching management work, improve office efficiency registry teachers.

Music database to education as the theme, in which subjects brand complete repository of some famous domestic companies in the development and construction, no music department. To study some resources website domestic music resources, find music resources website at this stage is very wide, content is very messy, the theme is not obvious but the lack of management system.

Multi music classroom teaching system is analyzed from the whole function of music teaching system, to achieve this goal, is to rely on the system belongs to all levels of each part or sub system. But the music teaching system under the system function is determined by the input conditions. The input conditions are affected by many factors, so that the music classroom teaching system is restricted by many aspects.

The first is limited by the system of school music education and school education. Music teaching as part of school music education, although occupies an important position, but must obey the needs of school music education system, school system under music assigned task. For example, the school music education system to music classroom teaching, to enable students to master the theory and method of science, as the school music education system of music teaching part must achieve this goal. This is the whole function of any system is larger than the critical parts of the function and location..

Secondly, music classroom teaching system is also affected by the quantity and quality of music teachers, teaching environment, teaching conditions and teaching hours, restricting the schedule and other factors. In determining the level of music teaching system goal, must fully analyzing the relevant conditions mentioned above. Especially in determining a music lesson the target, in the limited teaching time, must make the necessary choices from many music classroom teaching system, determine the key objectives of the classroom.

In addition, moral education, music teaching must be collaborative school intellectual system, to promote the students' moral, wisdom, body, beauty and comprehensive development, improve the quality of service personnel training. Any not consider the relationship between the music classroom teaching in the school education level and other subsystems, trying to get rid of the control system of school education the isolation and determination of the music classroom teaching goals are one-sided.

The restriction of the goal of the music classroom teaching system tells us that in order to determine the goal, we must consider the problem comprehensively and systematically, take into account the relationship between the parties concerned, and proceed from the objective reality, so as to establish the goal on a scientific and reliable basis.

As a symbol of a new generation of Internet applications, streaming media technology has been rapid development in recent years. Streaming media server is the core system of streaming media application, is the key platform for operators to provide video services to users. Its main function is to collect, for media content caching, scheduling and transmission and playback the performance and quality of service performance of streaming media application system reflected depends on the media server. Therefore, the streaming media server is based on streaming media application system, and it is also the main part.

The development and promotion of the process of streaming transmission technology, Real Networks is the founder and fully deserve leader, while *.RA/RM is just making Real Networks audio / video compression of a Real Media specification in Real Media is currently the most popular

Internet cross platform client / server architecture for multimedia applications, the audio / video flow and synchronized playback of Internet technology to achieve a full bandwidth multimedia playback with RealAudio audio data transmission to close to CD quality, Real Video is used to transmit video data. *.rp (realpix <o:p> realPix) is a part of the newly published RealMeida file format, is allowed to directly image file to client through Internet streaming. Through other media such as audio, text bound to the picture on the can be made to various multimedia files purpose. If needed Understand the landmark document simple text editor can be used to produce *.rp and Realis files can be played directly by Real Server is sent to the RealPlayer, but because this is the new media standard format, so the previous version of RealPlayer 4 and 5 is not to play.

VOD streaming media platform to support remote WEB management, to achieve full unattended, using a distributed architecture, support server load balancing. Widely used in radio, telecommunications, portals and other multimedia public information service industry, can be used in multimedia teaching, interactive video conferencing, video telephone, TV shopping, entertainment venues, hotels, KTV visualization services, advertising and other areas.

System component and function of -VOD streaming media platform. VOD streaming media platform is a set of digital video on demand service system, using video and audio compression technology and streaming media technology, to provide advanced video on demand for users, broadcast live video / media information service, modern management protection. In the broadband network environment to provide users with simple, smooth, picture quality the video service.

The system has the characteristics of interactive operation, high intelligence, overcome the limitations of the traditional one-way action TV.VOD streaming media platform based on B/S architecture, as long as the network system software and hardware system can be combined to provide services. The operation interface uses a unified Web interface on the network has access to any of the service system of users may, on demand access. The user can according to need through the network on demand or receive live video content, no time, geographical restrictions.

The.NET platform provides all the tools and techniques to create a new generation of distributed Web application (the technology of component technology and the database technology).NET platform supports the standard Internet protocol, including HTTP (Hypertext Transfer Protocol), XML (Extensible Markup Language) and SOAP (Simple Object Access Protocol), so as to realize the integration and communication between heterogeneous systems applications, namely users and suppliers can be developed on this platform products and services seamlessly embedded in its own business process and the daily activities of the information architecture.

The technical team of foreign schools generally has large scale stability to provide service and technical support, the school information construction started relatively late. The process gradually applied in the digital campus theory, each school has continuous investment purchase a variety of hardware, software and network system, on the other hand also develop the implementation of music teaching. Scientific research, office management system, formed a certain scale of the information system. However, due to the overall informatization level is relatively backward, the shortage of funds, the theoretical system is not perfect and other reasons, the school educational management system, the scope of services in institutions, service quality and personnel requirements compared with foreign schools have a certain gap in order to achieve.

Standardized, high school music education, music teaching management system, construction of management mode of music education in Higher Schools of our country, is an important topic of the research we need.

Music database aims to more effective management of music resources at the same time the users can accurately locate their own preferences, and can quickly and easily query Xinle songs and their favorite music. All of the pieces are in a standard database, and a detailed classification, it is quickly find improved greatly. But with the development of network, people continue to raise the level of knowledge, music resources also need developing.

General operation of music database should support the window, support audio. We believe that the music database is not a function better, and to have the needs of the user's function on the line, which effectively ensures the running speed of the system.

5. Summary

Streaming media server provides the player, the basic structure of the operating system, including the transmission of video, watch online video, video download, video storage and other more functions, to ensure that users want to know the information we can perfect show. This project because of the conditions and environmental constraints so that the virtual machine host connection form LAN rain the realization of the campus network. Video streaming can be achieved in the beautiful and easy to use Web interface, regardless of the use of the search engine or enter the URL into our campus network in view video can be realized. It is convenient for the user to know about us whenever and wherever possible to browse the campus information.

Streaming media publishing format is not compressed format, nor transmission protocol, which itself does not describe the audio-visual data, does not provide the encoding method. Here I would like to say it is playlists. Playlists you want to watch or listen to a custom list file. The playlist so you can focus on different media together, in any order you specified. Real and Microsoft play the custom playlist format. Their physical data media release format does not include the media, only illustrates the types of data and most of the arrangements, this file can use a text editor to open and modify a fact. This is the standard method using different media file format and compression standard format media release. A single media release information format can contain different types of media, If time, multiple streams to be synchronized, and all copyright information. The actual audio-visual data can be located in multiple files, and by the media file contains information flow control playback. Here introduces the commonly used media format.

References

[1] Park Yunea, Guercio Diana, Ledon Victoria, et all. Variation in Music Player Listening Level as a Function of Campus Location[J]. Journal of the American Academy of Audiology, 28(4):295-313.

[2] Sampaio P N M, Freitas R I C D, Cardoso G N P. OGRE-Multimedia: An API for the Design of Multimedia and Virtual Reality Applications[C]// 2008.

[3] Song Zhao, Chen Xue, Sun Shuhe,et all. Design and implementation of resource management sub-system of EPON network management systems[J]. Study on Optical Communications, 2009, 2009(3):4-6.

[4] Zhang J, Shen G L, Yang B Z. Design and implementation of information service system for rural science and technology based on push-and-pull technology.[J]. 2009:161-163.

[5] Review by: Robert W. Froelich. The Development of a Theoretical Basis for a Course in Music Appreciation at the College Levelby Ruth Ann Colwell[J]. Bulletin of the Council for Research in Music Education(5):35-41.

[6] Harold S. Stone. Designing in the multimedia era[J]. IEEE Design & Test, 1996, 13(4):6-7.

[7] Strand K. Teaching General Music in Grades 4-8: A Musicianship Approach by Thomas Regelski[J]. 2004, 2(1):38-47.

[8] WANG, Xin Yu, Zhang, Qing Song. Design and Implementation of Library Management System Based on. NET[J]. Advanced Materials Research, 760-762:934-937.

[9] Joseph D. Teacher attitudes and perceptions of primary school music education at independent schools in South Africa[C]// 2003..

[10] Ingrid Jeacle, Kerry Jacobs, Steve Evans. Constructing accounting in the mirror of popular music[J]. Accounting, 25(4):673-702.