The Design and Application of Injuries Network Consultation System

Ke Pan, Qiaozhen Yan

School of Physical Education, Wenshan University, Wenshan Yunnan 663099, China

paperiset@163.com

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Abstract. The paper aims to study a design and practice of sports injuries network consultation. According to sports injuries study and theory, combine Internet technology and module theory designed sports injuries network consultation system. This paper makes explanation on design ideas, technology crucial module and function design, working example of the system. This system can appraisal sports injuries, give treating plan, exercise and rehabilitation prescription, and provide Internet platform for sports injuries treating and counseling of students and teachers. So the system has important practice and promotion values.

Introduction

In recent years, mass sports scientific research in China for a larger development, for urban and rural resident's participation in physical activity was investigated in different degrees. However, due to the lack of extensive social survey, this study focused on qualitative research, so cannot formulate reasonable index according to a geographic environment and local customs, especially in the north of China. [1] Including the minority of mass sports present situation investigation as by the results of a large number of populace sports present situation investigation, collect and analysis the present situation of the masses to establish fitness survey and network consulting system, take the network as the fitness allows information media to the fitness with recommended their gender characteristics, character, hobbies, health status, health and the time schedule and other conditions, the sports fitness sports mass into the advanced scientific research management in the field of high-tech realize sports fitness method, [2] physiological index detection and self training evaluation of resource sharing the body-building sports mass sports management, consulting, to achieve scientific, automation and network, to carry out mass fitness movement is of far-reaching significance.

For parts of sports injuries, the war, the technical action sports environment and conditions, the level of training the site of injury and sports projects, such as a certain relationship .Sports injuries, refers to a variety of injuries occurred in the course of the campaign .There are a lot of people there is a certain sports problems among college students in the university, but in the face of professional sports is easier because of sports injuries and other factors directly increase their sports stress and burden，so long it is likely to suffer Psychology Some of psychiatric symptoms such as anxiety and depression, and the like. In order to reduce these symptoms occur，its today's sports majors sports burden of surveys and studies have necessity.

Design idea

Adopting the system uses of DirectShow technology when referring to the Sports Imaging for the traditional mode of analysis and comparison of image acquisition, also achieve "hardware independent" of the image acquisition. [3] Select the Web Service technology to achieve through the medical side of the remote video transmission. Design and implement of online and offline data transfer program through the research of Web database access, data staging, data synchronization, data conflict resolution. .NET components achieve the site email through a variety of comparison of mail component technology. Establish the use of AJAX technology to solve the asynchronous processing and real-time data transmission scheme and through the integration of AJAX into Visual Studio, create environment for building ASP.NET AJAX, and finally achieve access of data

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on-demand while consulting the page .On account of the confidentiality of medical data by analyzing the URL and the database stored procedure works. [4] Established the use of mail, using Request object by value Query String method receives a string URL to access information in the database using SQL stored procedures to access information on the program to validate.

Research methods are: questionnaires, individual interviews, literature, etc., are the two main tools of psychology Scale "SDS" and "SAS", as well as sports injuries questionnaires and individual interviews with the questionnaire.

Sports injuries investigation and results

The status of the first to study the course of Wuhan sports majors characteristics of sports injuries, and other aspects of the site. [5] Second, the analysis of the overall differences in anxiety and depression status of Wuhan sports majors as well as sports and emotional dimensions of various factors on the damage and compare anxiety and depression on .Third, analyze the difference with no damage students in the relationship between Wuhan Sports psychology majors anxiety, depression and extent of aspects of sports injuries Fourth, and finally discuss sports injury sports majors anxiety and depression levels. An example of sport injuries is shown in Fig. 1.

Fig. 1 An example of sport injuries

The main results of the investigation are the following: First, the University of Physical Education can produce all kinds of sports injuries in sports, ball games than the incidence rate of non- sports projects slightly; sports injuries main types of acute injuries, chronic injury incidence is relatively low; site of the major part of sports injuries in the knee, etc.; extent of sports injuries are mostly minor injuries, followed by moderate damage，less severe injury. Second，anxiety and depression case Wuhan sports majors mainly mild, followed by a moderate degree on gender, grade difference is not particularly significant，differences in the programs and students in the more significant .Third，the degree of movement of the heavier damage, then their sports anxiety, and depression also will be increased; acute injury to the college of anxiety, depression and emotional impact was short-lived, chronic injury is more serious and long- time; the main part of sports injuries generated a lot of negative impact on the knee and other large joints will be college students sports; impact on college sports program produced anxiety and depression account for a large proportion in other projects. Part sports injuries investigation and results is shown in Table 1.

Table 1 Investigation results

Reason	Number	%
Illegal	29	38.16
The action is not correct	15	19.73
The movement is not sufficient	13	17.11
accident	8	10.52
The load is too large	6	7.90
Others	5	6.58
Total	76	100

In summary, PE students should learn more about some of the knowledge and some emergency prevention measures related to sports injuries，learn to make the right attitude in the course of treating trauma and injury after injury but also to know that in self-protection related cognition. And coaches and teachers who have to deal with college sports injuries arising correct positive sports guidance, training and physical exercise while strengthening activities amateur exercise management and guidance to prevent the occurrence of sports injuries and sports burden of production, but also should strengthen the guidance of college students sports education.

Network con model is based on the network as a bridge across the teachers and students in time and space, the distance, breaking the traditional face to face classroom consultation methods of the constraints, classroom by classroom and laboratory instruction extends to the network covered by any of a place, a new the consultation mode. Network consultation model to give full play the advantages of modern network communication technology, traditional face to face education, holographic nature of real-time, close to nature, two-way interactive advantage of as much as possible to unfold in the realization of large-scale, regular popularize scientific knowledge of distance education purposes the same time, the full realization of the original basic purpose of education.

Implementation of computer network consulting system

Along with the advancement of education, information technology, Internet streaming media applications for its fresh, fast and accurate advantages departments at various levels to promote, how to use the Internet streaming media application platform, combined with traditional education, learning network resources, efficient work and real-time communication, has become all levels of education experts and scholars to explore a hot topic.

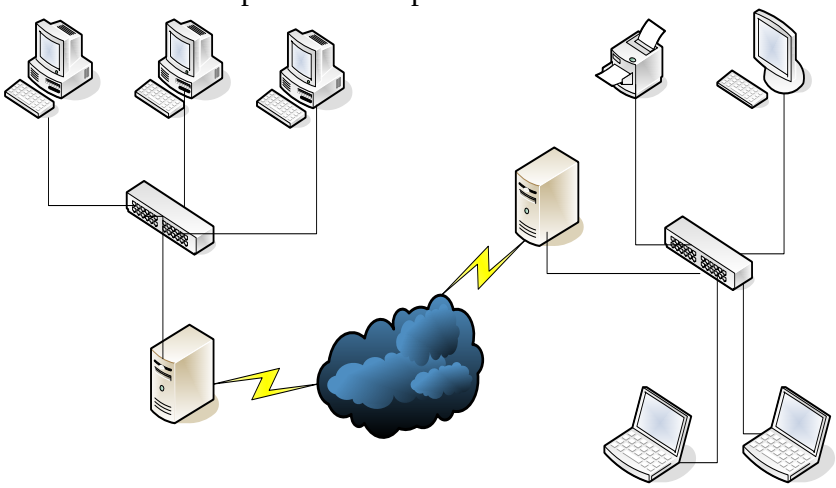

Fig. 2 B/C system contractures

B/C system contractures are shown in Fig. 2. We can design the system as follows:

(1) Requirements gathering and system analysis

Analysis and research on mass sports and mass sports content of previous research data, comprehend domestic and foreign research results, and study the function and relationship using object oriented method of computer network information management system, for example "object".

(2) System design

Based on collecting materials and system analysis, compare “object” with “type”, analyze the attribute and the change of the state, and analyze the interaction relationship between objects. Study on system data and data system.

(3) System development

Based on the design of the system and system development, study and solve the technical problems of code, study how to establish a friendly user interface, and solve the system database performance optimization, access control, data backup and recovery problems and so on.

(4) System deployment

Based on the deployment, we study system optimal solution of the system and the implementation of resource sharing.

It is proved that the Web-based sports system is feasible, possessing the advantages of low-cost, easy access and real-time interaction, etc. This system achieves online interactive consultation services without the constraints of time and geography for the user in the form of many-to-many and meets a variety of sports consulting needs, which has a certain value.

From now on, an in-depth study will be carried on the system maintenance and expansion, the validity of the data, user identification, as well as how to provide more personalized counseling network platform in order to meet rapidly growing demands of the times.

Network Consultation Support Platform is the basis for the implementation of online consultation environment. This article from the current status of China's network of education and are the main aspects. Through surveys, the current domestic Q&A sites, the majority of the BBS to take the traditional form, E-mail mode. In the interactive mode, there are also limited to a one-way asynchronous mode. Secondly, from the transmission of information and communication evolution model, real-time Q&A advisory systems, the artificial intelligence in the Q&A/Advisory System, real-time chat room in the smart Q&A/Advisory System, based on Latent Semantic Analysis Q&A/5 consultation system to analyze the current network in China and progress in consultation. Again, around the real-time Q-learning, information system construction of the key technologies needed to focus on analysis of basic application software, related technology, database development platform for network support of the consultation system, and as a basis for designing a web-based technology, real-time Q&A information.

Conclusions

In a word, through the construction of network consulting system of physical fitness, take the network as the media to give full play to the role of sports resources. This laid theoretical and practice foundation for gradual development of the sports.

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