

# ASP Technology to Build a Multinational Website with Database Analysis under the New Situation

Wang xijun<sup>1</sup>

<sup>1</sup>Zhengzhou University of Industrial Technology, the School of Information Engineering, 451100,  
Henan, China

<sup>a</sup>email

**Key words:** Database, ASP Technology, Network Server, Web

**Abstract:** In the information society, full and effective management meanwhile use of information resources is a prerequisite for conducting scientific research and management. Database technology is management information systems, Office automation systems, decision support systems and other core parts of the information system, is an important technology for scientific research and management. Aiming at several websites building technologies, establishment of school education is given the system structure of network and website, and related design, and through the introduction of network connection to a server and database technologies, how to use databases and ASP website construction technology for functionalist website was introduced and explained.

## Introduction

With the development of science and technology rapidly, online education in the 21st century has been applied widely, the main way of modern education based on modern computer and network communication technology through modernization of distance multimedia interactive teaching methods, geographical sections of the General network users to provide a learner-centered model of education. As a new form of education, e-learning has many features, such as flexibility, initiative, creativity and interaction, and so on. Special online education websites and applications, it is fundamentally solved in network education in non-face to face teaching of extensive exchanges between learners and teachers to challenge. So, by combining broad network and database technology, ASP technique generally used by now to build an educational website that provides dynamic service, became the new education model of network education necessary.

## Goals and Function

Network education website of basic function is meet teaching both of fundamental needs, in can for teachers provides lessons and class teaching reference of while, also can I for students of courses learning service; should can for teachers and students provides very convenience of online learning and discussion exchange of learning environment; than outside, also should can for teachers and students provides convenient using of information query and retrieved function, easy teachers and students of daily using.

Therefore, in order to meet these requirements, you should make education website has the following main functions, namely:

The learning function of the network. Teaching the learning function of the site is intended for

students of design. Students through the function module, can on various courses of electronic lesson plans for online learning, understand related of learning method, and class distribution and teaching plans and so on with courses related of content; also can opened various with learning related of Forum; has rates and mistake of interactive learning interface; can through on common care problem of in-depth discussion, guide students participate in online of Exchange, and evaluation and survey,, will network building into courses learning of another battlefield.

The teaching function of the network. Website of teaching function main is for General of teachers team and set of, especially high teachers team, can for teachers provides structure more rationalization and scientific of system platform, easy teachers will various with courses teaching related of electronic and video information Chang to website in the, also should easy teachers for dynamic of online Exchange, and and answering, promote teachers and students Shijiazhuang of Exchange, on school of teaching and research dynamic for timely to understand and master, to better to improved teaching.

Resource integration with query functions. As website construction in the of main work and function module, network resources of integration and query can through construction a on local site for search of engine, on Internet Shang of run environment for simulation, improve Internet query information and access of efficiency, to building out compared complete of information collection and query system, on online of resources for integration and query, building out simple practical of topic data information library.

## **Higher Education Website**

**System Structure and Platform.** In this system, the main use of network model based on b/s, which is commonly used browser/server. The network build mode can be application logic and user interface and separated the access data, to improve the maintainability of the system, in addition to using a variety of component technology can effectively reduce pressure of database access, improving system performance. Visitors can through local browser on network server for logic access, due to network server and application server are belongs to application logic layer, such, network server in received said layer by submitted of access application zhihou, one can through calls server in the of related module, on specific of logic operation and run for implementation, and database server proposed timely of data requests, get results zhihou, one can will results returns to network server, last, network server on can will results data provides to visitors.

**Technical Solutions.** Nowadays, it can be used in Web development techniques and tools are: HTML file-based development technology, CG I-based dynamic page generation technologies, and develop technology based on ASP. Following this introduction and description of the technical system.

First of all, is based on the HTML file of the Web site development. As the first generic page description language, HTML is easy to learn, and has very powerful hypermedia support for capacity, convenient for use in hypermedia information network. Website development by HTML language line, which features faster, and does not require a high level of technology. However, it has its drawbacks as advantages, disadvantage is that in the course of using the site maintenance workload is high, making small modifications in a timely manner, and also needs to operate on the entire page.

Secondly, CG I-based Web development technologies. A traditional static website building technology has been unable to meet the people's demand for access to the site, then, CG I-based dynamic interactive websites began to gradually rise and development of technology. This is mainly due to the use of CGI technology to build Web sites, you can greatly increase the number of

interactive makes it easy for users and site managers, as well as exchange of information between the user and the user. However, the website building technology also has obvious flaws, is the development of technology, close relationship with the operating system, therefore, makes use of this technology by building portable performance of the Web site is bad.

**Web Development Technology Based on ASP Technology.** As a new Web development technology, ASP technology is an Active Server pages, easy access to the database. Now in Web design, ASP function achieving more and more, you can use ASP to create dynamic Web pages or powerful Web applications. In addition, the ASP technology can achieve access to a database through ADO control objects, ADO features for efficient, simple and memory overhead of smaller, more suitable for client based on b/s mode or any other Web based application development.

Website based on ASP technology works can be described as: browser from a Web server sends an access-request, activate ASP script to run the program, then, the Web server can read the request file by calling the ASP, script commands and, finally, network transmission of pages to the browser. This mode, the completed script runs mainly through the servers of a Web page, so you see on Web pages from the browser is generated on the Web server after transferring, browsers don't have to be responsible for processing of the script. Network servers can achieve all script processing, and standard HTML page sent to the browser. Script run results accepted by the browser, does not copy to the server-side scripting, so it is difficult to support the page content of script commands, in this way, system and operational safety can be guaranteed. In this way, users can use the directory for definition of boundaries, as to the application scope so that each Web site can run multiple applications, and the page does not actually exist on the server side and the emergence of, any Web page is dynamically in real time based on user needs to build and run, will automatically end after the user's visit.

**Server Connection to the Database.** Now, to achieve between the Web server and database server communication and data exchange technologies include: dynamic data exchange, SQL and ODBC technologies.

In this way data exchange, has become the application of ODBC technology systems and standard data exchange interface between the drivers. As a call level data interfaces, ODBC does not require a recompilation program, you can call functions to implement ODBC operations. For different database management systems, ODBC access and control is translucent, you can load to achieve a logical structure of the driver mappings to specific database management system DBMS. Applications access and manipulate the data, you do not need to be implemented by any DBMS, applications of different DBMS's share will be achieved. So, for different application systems, ODBC has a high degree of portability and inter-provability through standards development based on ODBC, users can communicate with different database systems, applications do not need to make any changes at this time. Database server on the database system based on feature with a database system and its unique surface. Main features are as follows:

Database management functions, including system configuration and management, data access and data management, data integrity management, and security management.

The database query and manipulation functions, the function includes a database to retrieve and modify.

The database maintenance functions, including data import/export management, database maintenance, data recovery, and performance monitoring.

The database running in parallel, because at the same time, access to the database user to more than one, so the database server must support concurrent operation mechanism to handle multiple events occur at the same time.

## Conclusion:

The new century, the higher education through the introduction of construction technology of several sites on the current, given the construction of campus network and system structure of the Web site, and related design, and through the introduction of network connection to a server and database technologies, how to use databases and ASP website construction technology for mulch-functional website was introduced and explained. Conducive to further development of higher education in the development of efficient energy technologies.

## References

- [1] Li Xian Lu fang, Li Ling Tang, Li, Han Li long. Design and implementation of educational website based on ASP technology [j]. Educational information. 2006 (11)
- [2] Chi Penning, Li ping. Design and implementation of dynamic Web site based on ASP [j]. China Science and technology information. 2007 (22)
- [3] snow. Website building and website development [j]. Silicon Valley. 2008 (23)
- [4] Ling Ruiz. Website development stages of education [j]. Theorists. 2005 (08)
- [5] Fang Yihua. Web design of small education [j]. Journal of Mudanjiang College of education. 2005 (06)
- [6] Li Weenie. Basic elements of education website construction [j]. Michelangelo education (consolidated version). 2004 (16)
- [7] Li Xiaoping. Discussion on planning of education website [j]. China audio visual. 2005 (05)
- [8] Lin Ping. Web site information architecture planning and design of education [j]. Educational information. 2005 (05)
- [9] Dunn Longhorn and Li chunhai. ASP-based Web site-building [j]. Development and application of computers. 2000 (08)