

# The Design and Implementation of English Composition Correcting System based on B/S

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**Abstract.** The arrival of the information age means the transformation of teaching and learning, the teacher through the Internet to the students homework, homework, and management, and gradually become an important part of teaching. With the change of English teaching content and the reform of teaching mode, combined with the actual teaching situation, the English homework correcting system based on B/S is proposed and designed, and the basic function of the system is realized. English homework correcting system for English teachers through the Internet release of English homework, students make English homework, online English homework correction and for English teaching management provides a high-efficient software tools, in great extent for students to bring the convenience, also as a teacher of English festival about the time, for English Teaching of information technology and teaching quality raise has a significance can not be ignored. System tested. Practice has proved that based on B / s English homework correcting system to be an English teacher provides English homework correction required flexibility can be between English teachers and students form a good interaction, can let the teacher in the first time master students recent studies, as well as in the English classroom on the master degree, help English teachers to improve their teaching. In general, the English homework correcting system basically meet the needs of students and English teachers to online English homework done, the user can quickly find the required information, the user interface of the system is friendly, convenient operation, safety, to the user provides good user experience, has been basically reached the design requirements.

**Keywords:** B/S structure; operating system; ASP technology; system design.

## 1 Introduction

The arrival of the information age means the transformation of teaching and learning. With the development of computer technology, multimedia technology and network technology, the interactive way of teaching is gradually becoming popular. The use of computers in teaching, the teaching methods, teaching methods, teaching forms and teaching concepts have changed. Distance education, online examination system, online learning system and online homework system development, has greatly promoted the development of education, but also bring a great change to the modern education, profoundly influenced the modern education and teaching in the field. At the same time [1], it is also very important to check the teaching achievements and students' mastery of the contents of the computer aided English teaching. In the Ministry of education in 2012, the main points of work in the twenty-

eighth pointed out: to promote education and information technology. Implementation of the "ten years of education information development plan". Make full use of information means to promote quality education resources sharing, improve the level of educational management information. Promoting education informatization should not only be reflected in the classroom, but also is imperative under the situation. For the secondary vocational English, because after graduation, many students face the employment, so in English teaching should pay more attention to the practical English, teachers must continue to create opportunities for students to practice more, speak more English. Traditional homework is the paper work, so that students blindly mechanically copy words, phrases and sentences and so on, the students to cope with careless, plagiarism or less hand, late delivery of the phenomenon often occurs. Teachers for such assignments marking workload, are stereotyped writing a "check" or is rated an "a", "B", "C" level, not carefully to correcting. In this way, not only a waste of resources waste of manpower, also check the teaching result to good effect. Through the use of English homework correcting system, can give students more opportunities to practice and let the teachers from time and space constraints to correct homework, greatly improve the efficiency of the work of teachers. At the same time, the arrangement of the homework is diversified, and the students who are facing the different levels of the different levels are more targeted, and the evaluation method of the operation is more flexible and effective. Based on the above reasons and requirements, compared with the traditional English homework correcting system, it is more prominent than the superiority of the system. The development and application of the platform, as a feedback platform for teachers and students, plays a very important role in the teaching process and teaching effect [2].

## **2 System Basic Theory and Related Technology**

This chapter mainly on based on B / s English homework correcting the development environment of the system is described and in development of the system required the use of the.net framework part of key components, basic theory and key technology of are introduced, the follow-up chapters for the realization based on B / s English homework correcting system lay a foundation of theory and technology.

### **2.1 My Eclipse introduction**

My Eclipse, is added to the eclipse based on their own plug-in, eclipse is written in pure Java, is a very good for java development, J2EE eclipse plug-ins set, My Eclipse is very powerful, very broad support, especially on a variety of open source products to be very good. My Eclipse enterprise workbench (My Eclipse enterprise workbench, referred to as My Eclipse) is an extension of ECLIPSELDE using it we can in the database and JavaEE development, publishing and application program server integration greatly improve work efficiency. It is a function of the JAVAEE integrated development environment, including a complete coding, debugging, testing and publishing functions, complete support for HTML, STRUTS, JSP, CSS, JAVASCRIPT, SPRING, SQL, HIBERNATE. MYECLIPSE is a very good for the development of JAVA, ECLIPSE J2EE plug-in collection, MYECLIPSE function is very powerful, very wide range of support, especially for all kinds of open source product support is very good. MYECLIPSE currently supports SERVLET JAVA, JSP AJAX>, JSF, STRUTS, SPRING, HIBERNATE, EJB3, JDBC database link tools, and other functions. It

can be said that MYECLIPSE is almost all of the current mainstream open source products, the exclusive ECLIPSE development tool.



Fig. 1. My Eclipse interface diagram

## 2.2 SQL Server 2000 Database

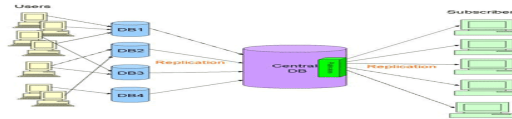


Fig. 2. Schematic diagram of database

SERVER SQL developed by MICROSOFT, and is the development of the OS/2 version of the 1988th based relational database management system. How to disassemble the NT WINDOWS, Microsoft developed SYBASE after the release of SERVER SQL. Microsoft SQL server is in Windows NT version of SQL server is dedicated to the development and promotion, will be transplanted to the UNIX operating system of Windows NT system based on, sqlserver is more focused on applications in this book introduced is Microsoft SQL server after referred to as for SQL server or MS SQL server. Microsoft SQL Server 2000 database management system easy to use advanced features and related software, in order to improve the integration degree and good expansibility, running Microsoft Windows 98 in the number of a laptop, but this version is SQL Server 7.0, the version of the Microsoft Windows2000, inherits the merits is a large-scale multiprocessor server, and run on other platforms [3].

## 2.3 Introduction of B/S structure

B/S (Browser/Server) architecture that is the browser / server architecture. It is in the middle of 1990s, with the development of Internet technology and the rise of the multi-layer distributed architecture. B/S structure can also be called BWD (Server/DB Server Browser/Web) structure. With the increasing maturity of this more advanced architecture, more and more applications begin to use this architecture. B/S architecture consists of three levels: browser, Web server and database server. In this architecture, the first layer of the browser (client) is the interface between the user and the entire system. Users can use any kind of common browser to use the comprehensive development evaluation system. Whether in school or outside school, as long as the primary and secondary school teachers to know the comprehensive development of the evaluation system of the web site can be used anytime, anywhere computer evaluation services. Users end all need is only a computer can access the Internet and a good use of the browser can. A large number of data analysis and computing

work is completed on the server, only the required display of the final results back to the user side can be, so save a lot of network traffic and duplication of work. The second layer web server storage performance for web applications, which bear released and receive information, specifically in response to the browser request and dynamic generation of embedded processing results of the HTML code is returned to the client browser. If the client request also includes data access, then the Web server also need to work with the data database server to complete the task. The third layer database server provides data storage, access and management functions, which according to the application request submitted by the Web server, the data operation, and the processing results are transmitted to the Web server. B/S architecture features [4].

(1) easy to use

Because the user can access the text, the image, the sound, the video and the database through the mouse, the user can use the information of the text, image, sound, video and database, and can be used without training.

(2) easy to maintain

Because the client does not need special software, the application program is on the Web server, software development, upgrading and maintenance only in the server side, reducing the development and maintenance of the workload.

(3) the effective protection of the early stage of the school investment

B / S mode using standard TCP / IP and HTTP protocol can be excellent with the enterprises of any existing network integration, if the institutions have server and network system only a set of software can be deployed.

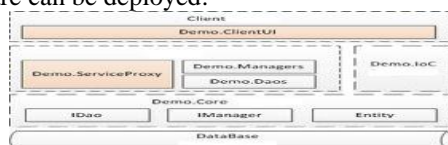


Fig. 3. Schematic diagram of system architecture

### 3 System Design and Implementation

The English homework correcting system based on B/S has a good generality and openness, which provides a very good solution for the current English homework assignment. It uses the basic function of the content of the same parameters but the content of the different ways, and can automatically verify the identity of the students, the system automatically correcting homework, performance and job access query functions. The English homework correcting system based on B/S includes three types of users: teachers, students and administrators. These three types of users are the key to the analysis of the database. Administrator is concerned with is whether can facilitate the management and maintenance of correcting system of information in English homework; pay attention to students is completed online English homework, homework performance of query, data download and solve doubts in learning; teacher concerned is job content and marking and other problems. According to the correcting system based on B / s English homework needs, design a English homework correcting system backstage database, database design is reasonable or not directly affect the

English homework correcting the performance of the system and the realization of its function. In this paper, the structure of the database is designed by using the method of E-R diagram. Database design mainly consists of two parts of conceptual design and physical design, conceptual design mainly includes the analysis on the database entities and relationships, also known as logical design; physical design mainly refers to the design of the database table.

Conceptual design of database is mainly carries on the analysis to the data dictionary storage relationship. After analysis, we conclude that the relational database model, database concept design usually adopts E-R diagram analysis method to analyze the structure of the database. How better to entity between the relationship between the model transformation is the key problem in the analysis, for the entity we usually adopt the method is: every entity into a relationship and attribute of the entity relationship attribute, entity code corresponding to the code. Database structure design is the process of turning database logical structure into an optimal physical structure, which determines the final storage structure and access method of the data model. Based on the B/S of the English homework correcting system using Server SQL 2008 as the background database system, the following on the English homework correcting system in the Server SQL 2008 database system in the design of the table to explain [5].

#### **4 Conclusion**

In the traditional English homework correcting teachers need to spend a lot of time and energy in their spare time, workload is big, and in correcting the homework in time and space has also been restricted, teachers can not always exposed to make corrections. At the same time, due to the limited space in the paper assignments, teachers could not in the operation of the above detailed modification and give reviews, only the wrong place to paint and give a simple evaluation, so for students will dampen their learning enthusiasm, they can not really understand oneself why exactly wrong. This paper puts forward an English homework correcting system based on B/S, which is open and universal, and can be used for different levels of English teachers' requirements. Of based on B / s English homework correcting system carried on the feasibility analysis from the technical and economic aspects, and described the English homework correcting the overall function of the system and gives the system structure diagram; at the same time, on the basis of the system includes the role of system function were introduced, and described based on B / s English homework correcting system in the role of user's workflow.

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