Development and Implementation of College Students' Ideological and Political Practice Course Network Teaching Platform Based on Jsp Technology

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Abstract: This Article through the Ideological and Political Theory Lesson Classroom Theory Teaching, the Research Teaching, the Experiment Teaching, the Practical Teaching, the Network Teaching and So on Mutually Cooperates, Fuses and Penetrates Mutually. the Teachers and Students Participate in the Omni-Directional Teaching Activities of the Ideological and Political Theory Course, and Strengthen the Theory Education, the Research Education, the Practice Education, the Network Education. as a Good Dynamic Web Page Development Language, Jsp Has Been More and More Widely Used in All Kinds of Jsp Applications. the Combination of Jsp Javabean Has Become a de Facto Standard for the Most Common Jsp Programs. the Paper Presents Development and Realization of Network Teaching Platform for College Students' Ideological and Political Practice Course Based on Jsp Technology.

1. Introduction

The Ideological and Political Theory Course in Colleges and Universities is an Important Part of the Higher Education Curriculum System. It is Also the Fundamental Guarantee for Colleges and Universities to Train Qualified Constructors and Reliable Successors. Ideological and Political Theory Course is Not a Single Political Course, But about the Cultivation of Correct World Outlook, Outlook on Life, Values, Political Outlook, Moral Outlook. the Concept of Legal System, the View of History, the Reasonable Structure of History, the Relatively Stable Curriculum Group with Complementary Functions, Mainly Include “the Basic Principle of Knocism”, “an Introduction to Mao Zedong's Thought and the Theoretical System of Socialism with Chinese Characteristics”. the Outline of China's Modern History, Compulsory Courses Such as Ideological and Moral Cultivation and Legal Basis, and Elective Courses Such as "Contemporary World Economy and Politics" Cover the First Level of Marxist Theory and Have a Comprehensive Theory. the Core Goal of Ideological and Political Theory Course in Colleges and Universities is to Solve the Problems of Ideological Cognition and Political Direction of College Students. the Party and the State Have Always Attached Great Importance to the Construction of Ideological and Political Theory Courses in Colleges and Universities. in the Past 30 Years of Reform and Opening Up, the Party and the Government Have Experienced Three Development Processes, Namely, “85 Program”, “98 Program” and “05 Plan”.

With the Rapid Development of Computer Technology, It is Communication Technology and Network Technology. Education is Moving Towards Information and Modernization. the Development of Educational Technology is Not Only Has Changed the Teaching Method, the Teaching Method, At the Same Time Has Also Brought the Teaching Content, with the Renewal of Teaching Concept, Computer Network Teaching Has Become Modern Education Hot Application of Computer Technology. Network Teaching Refers to the Use of Computer Network Technology. the Way is to Carry out Teaching in the Network Environment with Multimedia Technology [1]. as the Supplement and Auxiliary Means of Formal Classroom Teaching Can Make Full Use of Network Teaching Using Modern Teaching Methods and Various Teaching Resources to Provide Good Education for Students a Good Autonomous Learning Environment Makes the Teaching Effect and Teaching Efficiency Greater Improvement of [2] Network Teaching Can Enhance the
Connection between Schools, Teachers and Students. Department and Communication, to Make Up for the Shortcomings of the Traditional Classroom Teaching Process, So Teaching It Has Become an Inevitable Trend for Teachers to Set Up Teaching Websites for Their Courses.

With the rapid development of computer technology, education information, the process of networking has been deepening, especially the continuous popularization of Internet/Intranet using TCP/IP protocol. The use of computer technology and network technology has become an important development direction of modern education. Web-based teaching software can make maximum use of educational resources in modern education. As a result, it has developed rapidly.

Network teaching platform is it. Computer software with teaching function can replace or assist teachers in teaching to some extent. The teaching software based on Web is based on Internet/Intranet network. This kind of network teaching platform has the characteristics of openness, flexibility, interactivity, dispersion and so on. It organizes the knowledge in some fields according to the teaching goal, aggregates the knowledge into the module, forms the hierarchical, the network structure, and makes the page type or the script type software. After the teaching platform completes, uses the WWW server to carry on the management. The client uses IE and other browsers to browse, and through WEB pages for interactive learning, to achieve a relatively independent teaching mode in time and space, compared with the traditional classroom education. The most important feature of the new teaching method is that it breaks through the limitation of time and space and no longer depends entirely on face-to-face teaching between teachers and students. Under the new teaching mode, students give full play to their autonomy. According to their actual situation to determine the content of learning and arrange learning progress, thus meeting the need for universal and independent education. It is suitable for all students with learning requirements to use online. This method has become the mainstream direction of the development of network teaching platform.

With the rapid development of computer technology, information network has become an important guarantee of social development. The traditional classroom teaching will be transformed into the classroom computer network classroom internet and other learning methods. Network teaching platform based on JSP technology is based on the advantages of the campus network design and development, through this platform, students can not be limited by time, space, and region.

To realize the functions of browsing the teaching content, completing the homework, participating in the test, teachers can also use this platform to publish the announcement information, publish the test questions, and realize the courseware upload and download. Organize discussion and answer questions and other functions. Network teaching platform is according to Browser/Server model. The traditional browser / Web server two-tier architecture is extended to browser-Web server application server-database server three-tier architecture. This model uses a variety of standard protocols and technologies, suitable for any hardware platform and software environment.

The system adopts the combination of JSP and SQL Server 2000 database, and its basic principle is to use SQL Server 2000 as data warehouse. The high performance server-side program such as Servlet is used as the backstage master control program to run Servlet in the foreground to accept the user's input. Call different JSP programs to feed back information to client / JSP / Servlet via HTTP connection to transmit data on the server and client.

2. Research and Practice on the Teaching Mode of Ideological and Political Theory Course in Colleges and Universities

Especially in the new stage of the new century, facing the new historical task of building socialism with Chinese characteristics and the needs of college students' all-round development, the CPC Central Committee attame. T the way of taking the manager as the main body, the information choice depends on the manager's cognition and preference for the information, so it is not easy to grasp the real needs of the user, as is shown by equation(1).
\[
E\{\sigma^2_X\} = \frac{1}{N} \sum_{k=0}^{N-1} E\{(X_k - \mu_X)^2\} = \sigma_X^2
\]  
(1)

At present, the education system of our country is also in the stage of continuous reform and innovation, and the education department of our country fully absorbs the excellent teaching mode from any analysis management: implementation of platform access analysis. Management of online Evaluation of Teaching: teachers can be evaluated on the Internet. Monitoring is the quality of teaching. Platform backup and recovery management: including backup and recovery databases. Files and files uploaded by teachers and students on the platform. Platform message management: for students to use this platform proposed. Answer all kinds of questions. Platform log management: set up platform access log. It helps to identify the source of an attack when it is under attack from outside, as well as in the context of the platform. When a failure occurs, it is restored to its pre-failure state by logging, Minimize losses. User management: approval of teachers to submit from the Internet for use of the platform. Application is batch processing of student information, etc. Resource management for the platform: managing clients that may be required by the platform. Software and teachers to create the network of materials required for courses, and so on. Platform news announcement management: management of platform news, announcement, etc.

3. Analysis of Web Network Teaching Platform Based on Java Technology

The train of thought of teaching mode research and practice is to actively meet the needs of Chinese higher education to train qualified constructors and reliable successors of socialist modernization with Chinese characteristics. Especially to meet the urgent need of cultivating qualified personnel in the ideological and political theory course in colleges and universities under the background of the new curriculum reform system and Microsoft SQL Server 2000 database, a B/S structure student course selection system is established, and the system is programmed with JSP. The online course selection system is divided into three main modules: teacher information management, student information management and curriculum information management, as is shown by equation (2).

\[
M = \sigma_{s\lambda}^2 = \text{cov}(s(\hat{k}) \mid a(\hat{k})) = E\{(s(\hat{k}) - \mu_{s\lambda})^2 \mid a(\hat{k})\} = \beta(\hat{k})^\top \Sigma_{s(\hat{k})}^{-1} \beta(\hat{k}) + \sigma_{s(\hat{k})}^2
\]  
(2)

Among them the teacher information management has the teacher name, the teacher work number, the teacher title, the teacher belongs to the department; The student information management has the student name, the student number and the student department; Course information management includes course should follow the principle of purpose. The principle of subjectivity, the principle of experimental practice, the principle of three-dimensional and other basic principles.

User logon. Manages and authenticates the user's identity, and checks the user's access to the system. Students can enter learning, discussion, questioning, and homework after authentication. Teachers can conduct online tutoring and answering questions, publishing information and homework, examination evaluation, through the number of login and browsing time. To a certain extent, it reflects the students' learning situation.

Network tutorials is the main part of the software. The learning content can be designed according to chapters or topics. First, we should cover all the knowledge points of chapters or topics, and build a knowledge structure chart for the whole teaching content. The relationship between each knowledge point should reflect the teaching characteristics of the subject and the teaching law of the subject. Thirdly, the knowledge system should have its own elements, structure and function. At the same time, the function of knowledge structure should be displayed in software design, which is convenient for students to learn.
The online course is not simply to copy the contents of the textbook to the Internet, but to make full use of the mu

4. Development and Realization of Network Teaching Platform for College Students' Ideological and Political Practice Course Based on Jsp Technology

Give full play to the advantages of the ideological and political theory curriculum theoretical resources, the daily concern of college students social hot issues, difficult issues, to be sorted out, summed up, organized students to carry out research.

\[
\hat{X}_i(k \mid k-1) = F(k-1)\hat{X}_i(k-1 \mid k-1)
\]

And as an extension of the classroom teaching of ideological and political theory class. Take the research-oriented learning group as the unit, carry out research-oriented teaching activities, and bring into the teaching plan of ideological and political theory course. To formulate “the research teaching plan of the ideological and political theory course”, “the detailed rules of the research teaching of the ideological and political theory course”, “the evaluation standard and the appraisal plan of the research teaching of the ideological and political theory course”. Through the college students under the guidance of teachers to independently carry out research-oriented learning activities, focus on answering the social hot and difficult issues concerned by the college students themselves; Focus on answering major social and political theoretical questions; Focus on answering the ideological questions of self-development and the process of becoming a talent, helping to establish a correct world outlook, outlook on life and values. Nearly 10000 college students have participated in various kinds of research teaching activities, which have greatly improved the innovative spirit, theoretical research ability and innovation ability of college students.

The general idea is to divide the software design method into two parts. One is to use dreamweaver and other tools to develop the static part of the web page, and to use flash to develop animation; The second is to develop dynamic and interactive parts by using Java Java Jsp JDBC and so on, and to use the open software framework Struts in the construction of the website. [2] ,Spring. [6] and Hibernate. [7].

Division of software hierarchy, We divide the Web network teaching platform into four layers: presentation labe moved between layers.

![Fig.1 Development and Realization of Network Teaching Platform for College Students' Ideological and Political Practice Course Based on Jsp Technology](image)

The system adopts the popular JSP technology to develop the Web application program, uses the XML technology to process the teaching data, and interacts the data through JSP/Servlet and XML. At the same time, many mature technologies in computer network are adopted, such as streaming media technology, client / server technology and database technology.

JSP technology: JSPs are excellent Java technologies that are based on the powerful Java language and run on any Web or application server. Is closely integrated with the Java Enterprise API(Java enterprise application programming interface. Can quickly create high-performance Web applications. It separates content generation from display, enabling Web developers to focus on the processing of application logic; By using reusable components such as Java Btens\ EJB, it speeds
up the overall development speed, improves the system quality, and simplifies the programming of pages by using tags, thus reducing the difficulty of developers.

XML, like HTML technology: XML and HTML, is a markup language that can describe the structure of data through tags, and it allows users to view the needs of describing data on their own. Making different tags at will is very different from HTML, except that HTML already defines the display format for all tags, for XML. The display format is not the most important, relatively, the meaning of the data is the m college students' practical ability, the experimental practice teaching is to cultivate students' understanding of society by setting up the experimental teaching mode of situational experience, exploring, experimenting, investigating, visiting and interviewing. The important way to pay attention to the society, adapt to the society and cultivate the practical ability of college students is the objective requirement of teaching in colleges and universities as well as the need of cultivating the practical ability of college students. Give full play to the ideological and political theory curriculum close to the advantages of society, the daily concern of college students’ social hot issues, difficult issues, to be sorted out, summarized, and organized according to their own concerns.

As an extension of time and space in the classroom teaching of ideological and political theory, the experimental practical teaching activities are carried out with the experimental practice group as the unit. Bring into the teaching plan of the ideological and political theory course, make “the experimental practical teaching plan of the ideological and political theory course” and “the detailed rules of the experimental practice teaching of the ideological and political theory course”. “ideological and political theory course experimental practice teaching evaluation standard and assessment program”, through the college students under the guidance of teachers to independently carry out experimental practice learning activities, focus on answering the social focus of college students themselves. Difficult problems; Focus on answering major social and political theoretical questions; Focusing on answering the ideological questions of self-development and the process of becoming a talent, helping to establish a correct world outlook, outlook on life and values. Since 2005, nearly 20000 college students have been using after class. In the winter and summer holidays, we participated in various kinds of experimental practical teaching activities, which greatly improved the practical ability of college students.

5. Conclusion

In the course of ideological and political theory, in addition to the strong theoretical, but also has a more vivid practical, so in the teaching process, can not be confined to the classroom teaching of book theory. We should let students participate in some practical activities to better achieve the teaching goals. In the course of ideological and political theory teaching, we should build a research-oriented teaching model. We should pay more attention to this aspect of practical teaching. Teachers should make the corresponding practical teaching plan to combine the theoretical knowledge of ideological and political theory with the students in the process of practice. Students through social practice to deeply understand the ideological and political theory of the relevant knowledge of our country's national conditions, people's feelings and the social situation has a clear understanding. In this way, we can deepen our understanding of all kinds of theoretical knowledge. [At the same time, in the process of practical teaching, students can also improve their ideological and political quality and social observation ability, which is also to improve the students' comprehensive quality. It coincides with the goal of modern education and teaching.

In the traditional ideological and political theory teaching, the evaluation mechanism is generally to investigate the students.

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