The Construction of Online Learning Platform of Ideological and Political Education in Colleges and Universities Under the Background of Internet+ Education

Liling Xu[✉]

Shandong Institute of Commerce and Technology, Jinan 250103, Shandong, China
1048788975@qq.com

Abstract. With the deepening of the integration of science and technology with modern education, the drawbacks of traditional ideological and political education ideas and educational models have become increasingly prominent, and educational reform is imperative. In this paper, C# is used as the programming language to build the system, and the aspx function page is set up on IIS server to realize the specific functions of the platform module. The system will complete the layered design according to MVC pattern, and all the function modules will be realized in turn according to the system flow. Among them, talk add.aspx is used to add comments to complete the communication between teachers and students, and SQL server database is used to manage data storage. The establishment of this platform has broken the traditional ideological and political teaching mode, and contributed to the realization of the fundamental task of cultivating people with virtue.

Keywords: Internet+ · Ideological and Political Education in Colleges and Universities · Online Teaching · B/S structure

1   Introduction

With the development of information technology, traditional education can no longer meet people's needs, and the educational model needs to be innovated. The ideological and political education in colleges and universities, as the foundation of national education, should change with the trend [1]. However, the current ideological and political education in colleges and universities still faces the following problems. First of all, the current ideological and political education in colleges and universities is still based on the traditional "three centers of teaching", paying too much attention to teachers and teaching materials while neglecting students. Secondly, the ideological and political teaching mode is single, with classroom teaching as the mainstay and book knowledge as the supplement, which leads to the separation of knowledge from practice, and students learn without using it. Finally, the uneven distribution of high-quality resources and the slow spread of resources, which reduces the learning efficiency.

Therefore, this paper designs an online learning platform for ideological and political education in colleges and universities to solve the above problems. This platform takes advantage of the convenience of the Internet, takes Visual studio 2019 as the development software, selects C# as the programming language, relies on B/S architecture, and then builds the overall framework process by using ASP.NET to construct online interactive teaching of ideological and political education in colleges and universities. The construction of online learning platform for ideological and political education in colleges and universities has improved the problem of insufficient ideological and political teaching resources and changed the traditional ideological and political teaching mode. It makes positive contributions to the cultivation of all-round and comprehensive talents in the new era.

2   Introduction of Key Technologies

2.1   B/S Architecture

The Browser/Server is a network structure mode. In the B/S structure, the user sends a request to the server through the browser, and then the server processes it. After processing, the information required by the user is fed back to the browser, and the rest of the work is completed by the Web Server.

2.2   SQL Server Database

The SQL Server is a relational database management system (DBMS). By using this database, users can easily publish the required information and data to the Web, and users can view the data stored in the SQL Server through common browsers, which saves the query time and improves the operation efficiency.

2.3   MVC

The MVC is one of the programming modes in ASP.NET, and it is a special mode for creating Web applications. The MVC layering helps to manage complicated program applications, and programmers can pay attention to one aspect for a long time. Besides, MVC layering can also focus on view design without relying on logical business, making it easier to test program applications.

2.4   Development Process

Based on the above key technologies, this paper builds an online learning platform of ideological and political education in colleges and universities under the background of Internet+ education. To improve the development of the platform, the platform is built with C# as the programming language, Visual Studio 2019 as the basic development software, IIS version 10.0 as the server and SQL server 2019 as the data storage tool. All the above operations are based on Windows 10.0 operating system [2].

After the above software configuration is completed, we will create a new project under the File menu under Visual Studio 2019, and select ASP.NET Web application

to configure the new project. After the whole system module is configured, we run a simulation test. After it is generated, we publish the website to IIS, and then create a new website project in IIS. We find the Default Web Site and right-click. After selecting Manage Website, select Advanced Settings in the page, and finally select the physical path. After the basic configuration is completed, a simple platform can be built. Through the introduction of the above key technologies, the overall framework of the online learning platform is roughly planned, and the feasibility of establishing the online teaching system of ideological and political education in colleges and universities is clarified.

3   Function Realization

3.1   Student Side

In this module, students who use the platform for the first time need to register, and then they can normally use the ideological and political teaching resources provided by this platform. The platform uses Web static pages to display the user interface, and its content settings include three parts: self-study, practice and online communication. The specific login code is shown in Fig. 1.

a. Autonomous learning module
This module divides what students learn into three parts: excellent courses, real-time political affairs and youth role models. In the excellent course section, it mainly consists of two parts: compulsory ideological and political courses in colleges and universities and famous courses. The students must study the required ideological and political courses in an all-round way, lay a knowledge foundation for further study. In the famous course section, students can learn ideological and political courses from the life experiences of famous people, and enrich their political thoughts while feeling the contributions and contributions of martyrs to the motherland. The students' thoughts must keep pace with the times, so in the real-time political affairs section, students can search for the real-time news and national policies that they want to know, saving resources and searching time.

```
public class DB {
    //Define connection objects.
    private Connection conn = null;
    //Define the statement to be compiled
    private PreparedStatement psmt=null;
    //Define result set
    private ResultSet rs=null;
    public Connection getconn() {
        try {
            String password="";
            //Read connection database information from XML configuration file
            DocumentBuilder db = DocumentBuilderFactory.new Instance()
                .newDocumentBuilder();
            Document                    doc                    =
Db.parse("../webapps\\LearnSystem\\WEB-INF\\database.xml");
System.out.println(doc.getElementsByTagName("serve" ).item(0).getParentNode().getNodeName());
            String database = doc.getElementsByTagName("database").item(0).
```

Fig. 1. System login code (original)

The platform also has a youth role model board to promote the ideological progress of college students with the power of role models.

b. Practical exercise module

The establishment of this platform innovates the traditional ideological and political teaching mode in colleges and universities, shifts the focus of teaching to students, and pays attention to the combination of theory and practice while imparting book knowledge. In this module, students can voluntarily participate in volunteer activities released by the school, carry out ideological and political practice experience, and share their practical feelings.

c. Online communication module

In this module, students can freely share their own feelings about learning ideological and political science, and they can also browse and evaluate the learning experience of others. They can add comments by using QuestionAdd.aspx. If you don't understand, you can ask the teacher for help, discuss with the teacher and exchange your feelings.

3.2   Teacher Side

a. resource uploading module

When the teacher user system logs in successfully, courseware resources can be uploaded under this module by using Courseware Add.aspx The detailed uploading code is shown in Fig. 2.

b. Practice evaluation module

In this module, teachers can guide students' practical activities. On the personal center page, students' feelings and evaluation of courseware can be seen. Question Add.aspx is used to reply to other users, and Answer alter.aspx can be used to delete and revise comments.

```
</script>
<script type=" text/javascript" src ="inc/Admin.Lesson.js"> </script>
<script type="text/javascript">
Var vReiD=<%=ReiD%>,
Window. addEvent('domready' ,function(){
GetFolder(vReiD);
$('SelRoom'). addEvent('change',function(e) {
E.stop(); .
GetFolder(vReiD);
</script>
<form id="SocutForm" action=" ajax.aspx?do= Admin_LessonAdd"Method =" post">
<input type="hidden" id="Type" name="Type" value="1" />
<input type="hidden" id="iD" name="iD" value="<%=siD %>"/>
<input type="hidden" id="File" name="File"value="<% =File%>"/>
<input type="hidden" id=" OrderingOld" name="OrderingOld"Value=" <%=Ordering%>"/>
<input type ="hidden" id="GUiD" name="GUiD" value ="<%=File%>"/>
<input type="hidden" id="CheckTips" value="Tutorial title"
```

Fig. 2. Resource upload code (original)

4   Conclusion

Based on the educational background of "internet plus", this paper builds an online learning platform for ideological and political education in colleges and universities, which changes the traditional mode of ideological and political education, shifts the teaching focus to students, and pays more attention to the effectiveness of ideological and political education in colleges and universities. It helps contemporary college students to grow up into comprehensive applied talents with all-round development, and also provides a new method to promote the implementation of the educational policy of "cultivating people with moral integrity and educating people in an all-round way".

References

1. Yang Hua. The relationship between the practical significance of ideological and political education and the construction of college students' outlook on life [J]. China Staff Education. 2013.10
2. Ma Yi. The Research of Online and Offline Mixed Teaching Action — The Integration and Innovation of Information Technology and Ideological and Political Teaching [J]. Education Research Monthly. 2020 (07)
3. Ding Gang, Yan Hui. The Design of WEB-based Distance Teaching System [J]. The Journal of Anhui Institute of Architecture and Technology (Natural Science Edition). 2005 (03)
4. Zhang Jingli. The Research on the Construction of Ideological and Political Education System in Colleges and Universities under the New Media Background [J]. University. 2022(21)
5. Ma Guangyan, Zhang Xinyue. The Research on the Reform Methods of Ideological and Political Teaching in Colleges and Universities under the New Media Background [J]. Education Informatization Forum. 2022(07)