



Construction and Application of Legal Education Platform in Colleges and Universities Under the Background of Governing Schools by Law in Internet Plus

Jinhua Peng^(✉)

Chongqing College of Architecture and Technology, Chongqing 401331, China
546484895@qq.com

Abstract. Faced with many difficulties in the process of legal education in colleges and universities, this paper takes legal education in colleges and universities as the research object, adopts the application advantages of Web technology, computer application technology and database technology, and builds a platform of legal education in colleges and universities in Java environment. The system adopts B/S architecture, the front-end interactive page is supported by JSP technology, and the Web Server chooses SSH framework to build it. Server will complete the development and deployment of various functional modules and API interfaces according to MVC design pattern, covering the planning, implementation and evaluation of legal education. Especially in the evaluation stage, the system will provide AHP analytic data model, which is convenient for the system to automatically complete the evaluation of learning effect. The construction of the system can not only promote the reform of the legal education mode in colleges and universities, improve the legal education system, but also make a beneficial attempt for the modernization of higher education.

Keywords: internet plus · Legal education · Web technology · Java · Computer application

1 Introduction

Governing a school according to law is to integrate the thought of rule of law into the whole process and all aspects of school work, aiming at improving the level of campus management, thus improving the quality of running a school, breaking through the constraints of educational development, and effectively promoting the construction of a harmonious campus ruled by law [1]. Legal education, as an important task of running a school according to law, should not only strengthen publicity and education of law popularization, but also deepen special classroom teaching and improve the quality of legal education.

At present, young college students in the new era are not only the main force of national modernization and national rejuvenation, but also their legal literacy level

directly affects the realization process of a socialist country ruled by law [2]. However, at present, the legal education in colleges and universities is faced with difficulties such as unclear teaching objectives, outdated content setting, lack of teaching resources and lagging teaching mode. In view of this, this paper holds that colleges and universities should actively explore and innovate, build a Web-based college legal education platform on the basis of current college legal education, with the help of the functional advantages of the new generation of network information technology, database storage technology and computer application technology, combined with the actual needs of college teachers and students' legal education. The construction of the system not only meets the requirements of running a school according to law under the background of "internet plus" era, but also can practically complete the network virtual construction of legal education process. The design of various functional modules will also comprehensively cover the planning, implementation and evaluation of legal education.

2 Introduction of Key Technologies

2.1 Web Technology

Web is a global, interactive and cross-platform distributed graphic information system based on hypertext and HTTP, which runs in the Internet environment [3]. The functional architecture of the Web can be directly divided into two parts: the client and the server. Every information transmission and service realization of the Web requires the collaboration between the Web client and the web server. Figure 1 shows the running mode of the Web system. Based on the Web architecture, all technologies used in the construction process are collectively called Web technologies, and are divided into client-side technologies and server-side technologies according to the functional architecture of the Web.

2.2 SSH Framework

SSH framework is the integration of Spring, Struts2 and Hibernate. SSH framework is based on the classic MVC pattern, and the whole system is divided into four parts: presentation layer, business logic layer, data persistence layer and domain module layer. SSH framework obeys the J2EE development specification, and can complete the construction of Web Server in Java language environment, thus realizing the agile development of Web applications. It greatly reduces the development time and cost, and at the same time, it relies on the support of strong user community to improve the functional expansibility of the framework, and realizes the functional requirements of the system with more reasonable resource allocation and smaller resource proportion.

2.3 Development Environment

According to the system development requirements and the use requirements of the above key technologies, the configuration and deployment of the development environment can be completed. The legal education platform in colleges and universities is

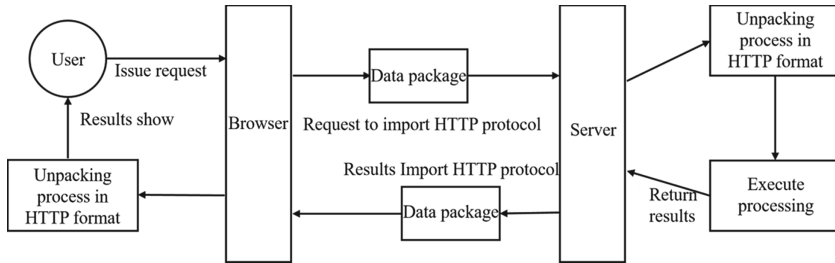


Fig. 1. The Request/Response process for the Web (original)

based on Windows10.0 operating system as a whole, with Java as the basic development environment, JDK version 1.8.0_251 and Eclipse Neon 4.6.2 as the integrated development tool. The Web server is Apache Tomcat 9.0, and the database is MySQL 5.7. The overall design of the platform will be divided into two parts. The front-end development takes JSP technology as the core, and combines HTML code, XHTML code, XML elements and JSP operation instructions to form the front-end interactive interface of the system. Server-side development needs to be completed in Eclipse. As shown in Fig. 2, the system development environment can be built by registering the filter of Struts 2, configuring the listener at the core of spring framework, and adding Hibernate configuration information in the Spring configuration file through code. Through the introduction of the above key technical theories, the overall environment of system development, the configuration of related software and tools are determined, and the technical feasibility of the overall project of legal education platform in colleges and universities is also clarified.

```

        <filter-name>struts2</filter-name>
    <filter-class>org.apache.struts2.dispatcher.filter.StrutsPrepareAndExecuteFilter</filter-class>
    </filter>
    <filter-mapping>
        <filter-name>struts2</filter-name>
        <url-pattern>*</url-pattern>
    </filter-mapping>
    <listener>
    <listener-class>org.springframework.web.context.ContextLoaderListener</listener-class>
    </listener>
    <context-param>
        <param-name>contextConfigLocation</param-name>
        <param-value>classpath:applicationContext.xml</param-value>
    </context-param>
    
```

Fig. 2. Key code for Spring integration of Struts 2

3 Detailed Function Realization

3.1 Popularization of Law

Under this function module, the system will provide two sections: “Legal Bookshelf” and “Legal Resources”. In the legal bookshelf section, users can consult all kinds of laws and regulations by themselves, and the contents of all laws and regulations will be presented online in the form of electronic documents. As for the resource section of legal popularization, it is more detailed, and a corresponding resource base will be built according to specific laws. The design contents of the resource base of legal popularization, in which each law will contain provisions, definitions, cases, pictures, animations and other related contents, so as to enhance the deepening degree of legal education in all directions and dimensions.

3.2 Special Teaching

Under this function module, teachers and students can choose the corresponding courses to join the study. The main presentation form of the course is video teaching. After users choose to join, they can follow the arrangement of the course and finish the course continuously.

3.3 Assessment and Evaluation

Under this function module, the system supports users to complete the legal education test online. It is convenient for users to further consolidate and strengthen their knowledge of the legal system, gradually establish their legal concept and awareness of safeguarding their rights and interests according to law, improve their self-restraint and self-protection ability, and prevent and reduce illegal and criminal acts [5]. In addition, the system will also support the AHP analytic hierarchy process model to evaluate the effect of legal education, as shown in Table 1 for the comprehensive performance evaluation index system of legal education and the final result. The formula for calculating the weight value of a single target or element is shown in Formula 1, where λ_{\max} represents the weight value, A represents the hierarchical level, and W ranks the weight vector.

$$\lambda_{\max} = \sum_{i=1}^n \frac{(AW)_i}{nW_i} \quad (1)$$

Table 1. Comprehensive performance table of legal education

Target layer	Standard layer	Measures layer	Weighted value	This score	Score
Comprehensive performance of legal education	Special teaching	Course study duration	A1 = 0.148	76	11.248
		Daily job completion degree	A2 = 0.262	81	21.222
	Popularization of law	Frequency of inspection of regulations	A3 = 0.057	82	4.674
		Resource utilization	A4 = 0.039	66	2.574
	Comprehensive examination	Examination performance	A5 = 0.173	89	15.397
...		

4 Conclusion

In order to improve the effectiveness of legal education in colleges and universities, this paper starts with the planning, implementation and evaluation of legal education, and builds a web-based legal education platform in colleges and universities with the help of network information technology, database technology and computer application technology. It puts forward a set of practical and comprehensive solutions to solve many problems faced by legal education in colleges and universities. The system reshapes the process of legal education in colleges and universities with convenient and efficient visual interaction, improves the legal education system while promoting the reform of legal education mode in colleges and universities, and further makes a beneficial attempt for the networking and informatization construction of higher education.

References

1. Yang Shaobo, Liu Hongyan. The Connotation and Implementation Path of Governing Colleges and Universities by Law under the New Situation[J]. Journal of Xinjiang RTVU.2020.12.
2. Li Qingfu, Lei Jia, et al. Cultivation of College Students' Concept of Rule of Law and Rule Consciousness[J]. Academy.2018.09.
3. Wu Changzheng. Web Development Framework Design Based on Front-end Separation Technology[D]. Nanjing University of Posts and Telecommunications.2020.12.

4. Sun Nan, Xu Lijun, et al. Evaluation and Analysis of Network Teaching Effect Based on Analytic Hierarchy Process[J]. Heilongjiang Education (Theory and Practice).2017.11.
5. Li Rui. Discussion on the Causes and Countermeasures of the Lack of Effectiveness of Legal Education in Colleges and Universities in China[J]. Writer's world.2021.05.

Open Access This chapter is licensed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (<http://creativecommons.org/licenses/by-nc/4.0/>), which permits any noncommercial use, sharing, adaptation, distribution and reproduction in any medium or format, as long as you give appropriate credit to the original author(s) and the source, provide a link to the Creative Commons license and indicate if changes were made.

The images or other third party material in this chapter are included in the chapter's Creative Commons license, unless indicated otherwise in a credit line to the material. If material is not included in the chapter's Creative Commons license and your intended use is not permitted by statutory regulation or exceeds the permitted use, you will need to obtain permission directly from the copyright holder.

