Research into the Framework of Enterprise Human Resource Management Information System

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Abstract With the rapid development of computer technology, enterprise information management has become a major problem involving operation and management. As the core and core of the enterprise, human resource plays a decisive role in the development and production of the enterprise. Only reasonable use and management of human resources, so that employees work ability and enthusiasm get full play, can make the vitality of the company continue to enhance, enhance the competitive advantage of the enterprise. On the basis of analyzing the development situation of HRMIS at home and abroad, it analyzes the development advantages and disadvantages of HRMIs in detail.

Key words human resources; Management information system; SSH

1 Introduction

Since our reform and opening-up, along with the rapid development of Chinese economy, small and medium-sized companies have accelerated development, pay attention to the cultivation of talents, personnel training concept is constantly innovating, staff's management mode is constantly innovating, and distance between the world's leading companies is also shrinking. However, the personnel work of an enterprise is a systematic system, which requires not only a correct understanding and grasp of the composition of talents in the enterprise, but also the establishment of a sound talent evaluation system to enhance the communication and organization between employees. In the past, the management of human resources was carried out in the form of manual, with manual methods for personnel data sorting, manual operation, personnel work arrangement, etc. Under the guidance of this theory, the application of information technology to design HRMIS (HRMIS) plays an important role [1-3].

2 J2EE Architecture

J2EE Architecture is a new conceptualization pattern developed by Sun in the United States that is essentially a corporate version of Java2. J2EE is a new type of technical architecture, which is a combination of multiple components that can be easily developed and configured for a variety of applications. The software developed by J2EE technology has good portability, security and reusability. Technical specification is the core of J2EE architecture, it can be the technical level of the architecture for business support, ensure the compatibility of each system, but also ensure

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the smooth communication and sharing of the outside world. Based on J2EE technology, an enterprise HRMIS based on J2EE technology is established. Its B/S application architecture and application program design are shown in the attached Figure 1 and 2.

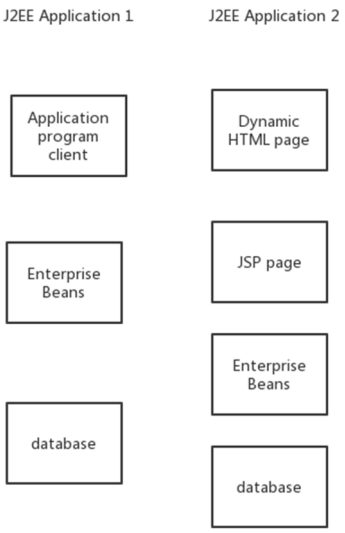

Figure1: B/Sapplicationframework

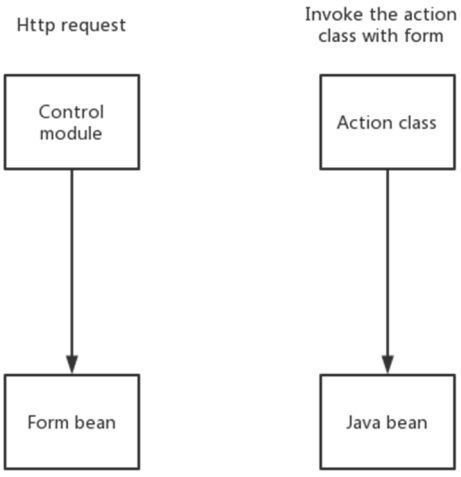

Figure 2: B/S application logic

Figure 3 shows the specific architecture of MVC, in which the browser sends a request to the Controller. The development of Servlet technology enables the control system to implement well and convert all requirements into a module for operation [4], which is usually implemented by Javabeans. JavaBean implements the View through JSPS and HTML by returning a message (View) to the view and passing the response message to the browser [5].

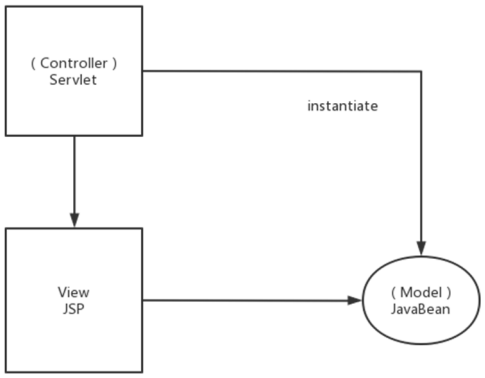

Figure 3: MVCdesignpattern

3 Demand analysis of enterprise human resource management information system

The user information management module consists of three parts: user authority management, department information management and user information management. The specific use case diagram is shown in Figure 4[6].

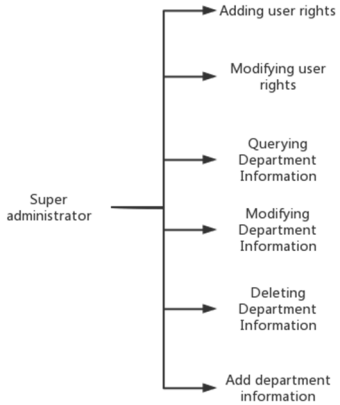

Figure 4: User Rights and Department Information submodule use case diagram

4 Design of enterprise human resource management information system

Once super players log in to the system, you can do a new registration, once registered a new user, then, the system will register people for identity verification, for example, your account, your account, your email, your name, your account, your email, and so on[7], will be your identity verification. If a message is illegal, it goes back to the new user interface, and all the data is recorded in the database, which gives you the original right to see your profile and then make changes within that permission. The user information management module also includes the user and the user's data changes, and the removal of user objects[8].Table 1 shows the business logic after user login, showing permissions, user information, department information, display interface, and processing background information.

Table 1: User management module business logic table

	operation	Interfacedisplay
1	Enterthenewuserinformation	Inputinterface
2	Detectionanddecision	Outputwhethertheinformationisvalid
3	Queryuserobject	Listinterface
4	ExampleQuerybasicinformationaboutauser	Basicinformationinterface
5	ExampleModifybasicuserinformation	Basicinformationinterface,outputvalidinformation
6	Deleteuserinformation	Outputsuccessmessage
7	QueryingDepartmentInformation	Listinterface

5 The realization of enterprise human resource management information system

1. Hardware Platform:

CPU:P42.4GHz or above;

Memory: more than 2GB.

2. Software Platform:

Operating system :Windows7:

Database :MySQL5; Development kit :Eclipse; SP server :Tomcat5.5;

Browser: Internet Explorer 6.0 or above;

Resolution: Best effect 1024 pixels x768 pixels. Among them, "social media", "machine learning", "artificial intelligence", "One Belt, One Road", "blockchain", "new energy vehicles", "medical and health" and other hot issues have attracted attention in recent years, and have had an important impact on social development, although the number of declared projects is not large, and the funding is not large. But they are all important issues to focus on and plan for. In the past two years, the number of approved major research projects in the field of "big data" has

been decreasing year by year. Therefore, in the future planning of the field of "big data", emphasis should be paid to the innovation of analysis methods and cross-integration, and it should be linked with social hot issues.

The core technology of this module is login detection, the code implementation is as follows :publicStringLogin()throwsException{

// The user name is incorrect

if(userService.checkUserExist(user.getUsername()==false)

return"noUser"; // The user password is incorrect

if(userService.checkUsernameCorrect(user.getUsernameO),user.getPassword())=false)

return"wrongPassword"; // Log in as an administrator

if(userService.getTypeByname(user.getUsername().equals("admin"))

return"admin";

// common user login return"common";

In the user management module, key use cases include adding new users, changing user permissions, changing passwords,

To change the user's basic information, the specific implementation code is as follows:

1. Code implementation of adding new users:

publicStringAdd()throwsException{

user.setType("user");

userService.addUser(user);

HttpServletRequestrequest=ServletActionContext.getRequest()

request.setAttribute("tipMessage", "Congratulations, adding successfully! Click OK to return

Log back in ");

return"success"; }

Code implementation of changing user permissions:

// Get the user entity

publicStringeditBr(){

if(Id==0)

br=null; else

br=User.findBDByID(Id); return"success"; }

// The permission is changed

publicStringeditAuthority0throwsException{

```
if(ar.getId()>0){
StringnewFileNamel="$"+ar.getStartimgname();
StringnewFileName2="$"+ar.getEndimgname(;
StringrealPath=ServletActionContext.getServletContext0
.getRealPath("/upload"); if(! newFile(realPath).exists()){
newFile(realPath).mkdirs();
FileimageFilel=newFile(realPath,newFileNamel);
FileimageFile2=newFile(realPath,newFileName2):copy(myFilel,imageFile1);
copy(myFile2,imageFile2); ar.setStartimageaddr(realPath);
ar.setEndimageaddr(realPath);
```

6 Conclusion

In the fierce competition, the talent quality and management ability of enterprises are increasingly restricted. In the past, human resource management of enterprises is mainly manual, personnel, personnel, decision-making, daily work are manual operation, such traditional manual operation [9], has been unable to adapt to the rapid development of enterprises, personnel flow of real-time requirements, will directly affect the business competitiveness of enterprises. The unified information management method is adopted instead of manual management, which improves the management speed, security, real-time and availability of management [10].

Reference literature

[1] Wang Tianxin. Development of Management Information System [. Modern Information, 2007(6):224-225.

[2] Zhang Jianguo, Bi Tao, Qu Xiaoyu. Introduction to computer information management system development direction [J]. J ComputerCDSoftwareandApplications, 2013. (18) : 135-136.

[3] Chen Yong, CAI Shuqin. Research on Development Motivation and trend of management information system [J. Business Research, 2005,14(322):4-6

[4] Zhang Jujian, Gan Ren Chu. Development Direction and realization technology of management information System [J]. Application Research of Computers, 2003(1):8-10.

[5] Han Xingrong, Xia Ziqian. Research progress of management information system [. China Management Informatization, 2006,9(2):13-17

[6] LI Yunyun. Analysis of B/S and C/S Architecture [J]. Friends of Science, 2001:6-8.

[7] Zeng Xuejun. Analysis on the development and application of B/S and C/S structures. Computer Knowledge and Technology, 2007:407-408

[8] CAI Changan, Wang Yingying. Comparison and Choice of C/S and B/S Models [J. Weinan Normal UniversityActa Photonica Sinica,2006,21(2):47-51.

[9] Zhang Li, Zhang Yan. From C/S to B/S and then to three-tier (multi-tier) structure -- On the development of architecture [3]. Henan NormalJournal of Fan University (Natural Science Edition),2002,30(3):24-27.
[10] Zhang Shiyong. Software Architecture Style - From C/S to B/S[J. Computer Knowledge and Technology, 2005:59-61.