Study on the Model of the Right Defense Information Management System for the Post-80s Women Based on Wabacus Framework

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Abstract

With the social progress and the development of human civilization, more and more emphasis has been laid on the influence of the women in the social relations. Particularly under the maintenance of the Party Central Committee and the persons in the field in China, the women’s position has been improved. But due to the influence of the work and social environment, the post-80s women in the society do not have full understanding of the related laws and bills, particularly there are high requirements for the women’s right defense. A right defense information management system for the post-80s women that can be widely used is also the social demand nowadays. For this purpose, the information management system has been built in this study for the demand of the post-80s women in right defense, by providing multiple function modules, and optimizing the design of this model and advocating the comprehensive evaluation method and verification method, with the aim to improve the right defense information management for the post-80s women by using the information approaches, such as advanced computer technology and network technology.

Keywords: Wabacus Framework, Post-80s Women, Right Defense Information, Management System.

1. STUDY BACKGROUND

1.1 Literature overview

The “Constitution” of the People’s Republic of China has definitely stated that, “The women enjoy the rights equal to the men in the political, economic, cultural and social life” (Song, 2017). China emphasizes the development of the women, and has made active and great efforts in improving the women’s status, and signed and seriously performed the international treaties (Lian and Feng, 2017). For example, “Beijing Declaration”, “The Convention on the Elimination of All Forms of Discrimination Against Women (CEDAW)”, “Law of the People's Republic of China on the Protection of Rights and Interests of Women” (Chang and Yang, 2012). It is a fundamental national policy in China to realize the equality of men and women, and the national government also safeguards that the women enjoy the labor rights and social guarantee rights equal to that of the men, and has witnessed the historical significance of promoting the equality of men and women and improving the women’s status in China (Wang, 2012). “The Outline for the Development of Chinese Women (2010-2020)” has raised the improvement goal of the women’s right defense by focusing on the post-80s women.

1.2 Study objective

This study mainly involves the analysis on the behavioral habits of the post-80s women, thus distinguishing the design of the fitness and universality of the right defense information management system. The right defense information management system is mainly designed with the right defense business management function, to improve the information management function under the Wabacus framework through creating the database and using the physical model (Zheng, 2012). Besides, My SQL database and B/S model are used to develop multiple function realization means and module coding, and realize the multifunctional interfacing and integration. The system test and the integrity evaluation system are used to attest the application dimensions of the right defense information management system for the post-80s women based on Wabacus framework (Li and Li, 2010). Thus, it is possible to improve the actual efficiency for the right defense of the post-80s women in China through the wide application of the information management system.
2. RIGHT DEFENSE INFORMATION MANAGEMENT SYSTEM FOR THE POST-80S WOMEN

The right defense information management system for the post-80s women shall be developed following the application direction of this system, defining the basic function demand of this system. While according to the system application effect, it is required to carry out the analysis from four dimensions, that is, performance demand, role demand, data demand and function demand, as shown in Table 1.

### Table 1 Quantitative Criteria for the Needs of Women’s Rights Information Management System Post - 80s

<table>
<thead>
<tr>
<th>Demand dimension</th>
<th>Performance requirements</th>
<th>Role requirements</th>
<th>Data demand</th>
<th>functional requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Practicability</td>
<td>Registered user</td>
<td>Service object information</td>
<td>User management</td>
<td></td>
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<tr>
<td>Comprehensiveness</td>
<td></td>
<td>Platform information</td>
<td>Maintenance of organizational structure</td>
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<tr>
<td>Developmental</td>
<td>Non-registered user</td>
<td>Activity information</td>
<td>Activity site management</td>
<td></td>
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<tr>
<td>Universal applicable moderate</td>
<td></td>
<td>Archives of human rights</td>
<td>Information platform maintenance</td>
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</table>

#### 2.1 Performance demand analysis

The demand of the right defense information management system for the post-80s women includes, practicability, comprehensiveness, and development. First, practicability is proposed from the measurement scope raised on the basis of the current user demand. Once the current system development does not follow the use habit and management of the users, the practicability will be relatively poor and the implementation of the corresponding business will be difficult (Hao, 2014). Second, comprehensiveness refers to the universal view in the development of the system, guaranteeing the comprehensive involvement of the right defense activities and business, and then improving the integrity and safety of the related data information. Finally, development refers to the time usable in the application dimension of the system. If the prediction of the development system is insufficient for future use, then the single support for the post-80s women in the short time will severely hinder the long-term application of the system, and also increase the maintenance expenses and development expenses without stop, and thus result in unnecessary wasting.

#### 2.2 Role demand analysis

The users of this system are classified into registered user and non-registered user. The registered user refers to the ordinary post-80s women who have been registered as the member, thus obtaining the through the basic functions of the system, such as inquiry, comment, voting and interaction (Li, 2013). While the non-registered users are mainly the post-80s women who have not been registered as the members. This system shall realize the introduction of the primary page dynamic information for the non-registered users, including the management system introduction, dynamic information introduction, activity information matters, registration method and means, and there shall be certain information inquiry functions, to facilitate the non-registered users to understand the actual system application directions.

#### 2.3 Data demand analysis

Data demand is the necessity support function of the right defense information management system for the post-80s women. In the actual application, all post-80s women upload the corresponding right defense demand information, while the administrator of this system is required to upload the related service information (Tan and Zhang, 2013). The data information base shall realize the function of simultaneous processing of the entity information by multiple modules, and the main information contents include, system user information, organizational institution information, activity field information, activity information, activity application information, information platform, volunteer team information, right defense archive information, aided object
2.4 Function demand analysis

The use of the right defense information management system for the post-80s women involves four basic function demands, which is, user management, organizational institution maintenance, activity field management and information platform maintenance. First, the user management include the registered user and non-registered user, while the traditional administrator plays an important role in the management core, and it is required to integrate, edit and upload the information to the system interface (Hu, 2015). Besides, this system shall have the most fundamental update, repair, add and delete functions common for the administrator. Then, the organizational institution maintenance mainly refers to the related system maintenance function organized by the community women federation and the corresponding women right defense organization. While in the application, it is required to choose the right maintenance personnel after the design and development of the system, such as the women employees on duty or off duty in the organs, enterprise and institutions, the women university graduates as the village official, personnel in charge of the cooperative organizations, and the regional rich women hotshots, constituting the women right defense work committee, and the function channel is opened for the related personnel in the system, to facilitate the use of the related working personnel. Then the activity field management mainly refers to the field, equipment, office place and outdoor space necessary for the offline cultural and sports activities or helping activities organized by the users in the system. While the activity field management designed in this system with the initial goal of realizing the resource sharing of the facilities or the field, thus providing the support for the right defense activities of the post-80s women (Chen and Chen, 2015). Finally, the information platform maintenance function is the model of platform application for the implementation of multiple management systems, dynamic information update and the right defense activity implementation. In the actual use of this system, the user will communicate with the administrator, raise the questions for answer and the information support, all of which shall be finished in the platform. While the pertinency, standardization and normalization of this platform are important detailed rules of the management functions.

3. REALIZATION PROCESS FOR THE DEMAND FUNCTIONS OF RIGHT DEFENSE INFORMATION MANAGEMENT SYSTEM FOR THE POST-80S WOMEN

3.1 Flow structure of basic business service functions

In the handling of the related right defense service in this system, all function modules in the system process are mainly subject to the operation commands of the management committee member. The said management personnel will upload the right defense information onto the system platform, add the related right defense information reception and processing, modify and update the right defense information, answer the questions...
raised by some of the post-80s women, and raise the resolving suggestions by uploading the maintenance proposal (Bo, 2015). In addition, it is required to regularly check and maintain the inquiry and search functions of the right defense information, to facilitate normal operation of this system. The basic business service function flow structure is shown in Fig. 2.

3.2 Education service help function module

According to the employment demand of the post-80s women in China, this system has been designed with the independent education service function module. In the actual application, the user is required to fill in the study demand information according to their respective situations, and then the administrator will introduce the study direction and provide the related study information. The teaching contents strictly observe the guidelines, guiding principles, policies, laws and regulations of the Chinese Communist Party, and design the index of the demand study information for the business startup and innovation training and employment skill training under the orientation of the vocational development model for the post-80s women, and design the content introduction, study information search, source download and study registration through the teaching and training model, to promote the functionality and practicability of this module (Cui and Luo, 2013). Firstly, the user will be registered, then the system will automatically assign the classes, and finally, the system will provide the post-80s women with the systematic and comprehensive skill training scheme.

3.3 Flow structure of the help function realization

In this system, the building of the helping function module for the post-80s women is the important function direction. The module can understand the actual demand of the helped objects by collecting the information of the registered users, review the user application one by one, and check and confirm the demand of the helped objects, and the effect of the helping activities. Besides, the sub-functions of the function module are designed for the inquiry of the application approval, to further meet the use demand. If the user has become the helped object in phase, it is possible to inquire the basic information of the helped object and the help record through this module (Yi, 2011). Besides the management personnel of the committee may realize the timely communication with the aided objects by using the functions of this module, and understand whether the user demand has been met when the inquiry and maintenance functions synchronize.

4. CONSTRUCTION METHOD OF THE WABACUS FRAMEWORK MODEL

4.1 Theoretical overview of Wabacus framework

Wabacus framework uses the declarative development model, and is a development framework based on Java language, capable of providing the complete foreground and background development service. Wabacus framework is different from the client foreground development platforms, such as Ext Js and JQuery, since it cannot only provide the foreground development service, but also support the complete background solution and can complete the main functions of SSH framework. Because it is basically not required to be abbreviated into Java code or it is only abbreviated into a very small amount of codes, it has the development efficiency several times higher than that of SSH framework, and can very largely improve the development efficiency of J2EE project.

4.2 Fitness model of Wabacus framework

In the system design stage, this study was carried out with the mathematical model of Malthusian Theory of Population. It is used to judge the demand change for the functions of this system due to the user growth. In this study, one ideal demand space is designed, that is, optimizing the system to support the functional use of all users in the stages, and finish the synchronous realization of multiple functions in the peak period. The user growth model of the maximized system user login is the logic function. The particle model in the potential field is verified with the trajectory formula,

\[ m \frac{D^2 r(t)}{Dt^2} = -\nabla V[r(t)] \]  

(1)
where, \( m \) represents the actual login users; \( D \) represents the new users; \( r \) represents the implementation progress of the system maintenance; \( t \) represents the actual user login time; \( V \) represents the system operation status with sufficient managers in the said login peak period. In the application of this model, it is possible to effectively distinguish whether the system operation status meets the constant increase of positive user growth. The system operation results are evaluated according to the fitness model and system application effects.

4.3 Mathematical evaluation model of Wabacus framework design system

Except the application dimension of the system operation effect, the user satisfaction is also an important index to determine whether the use functions of the right defense system meet the demand. To increase the feasibility and objectivity of the system evaluation, this study is designed with the mathematical evaluation model,

\[
1 = \sum_{i=1}^{n} (Q_n \ast U_n)
\]  

(2)

In \( U \) set, the fuzzy subset \( Q_n \) may be considered as the weight for the satisfaction index of all users in this system, and \( Q_n = \{q_1, q_2, \ldots, q_n\} \) is used for the statistics of the satisfaction set. Then the related index variables are summarized, with synchronous evaluation of the satisfaction of this system among the users mainly consisting of the post-80s women in the user interface.

5. WABACUS FRAMEWORK REALIZATION MEANS AND INTERFACE LANGUAGE CODE

5.1 New user information input code

Under this interface, the related committee management personnel will log in with the account number and then enter this system. The new users are required to fill in the basic information, including, serial number, account number, name, age, telephone number, user type, and manager information of women’s federation member information. After new user has filled in the related information, the data code will be generated and then saved in the database of this system for a long time, and the registered user may delete or modify the information at any time. The key code for the input maintenance system in the user interface is:

```html
<display>
<col column="\{sequence:1\}" width="5%" label="Serial number"/>
<col column="login ID" label="Account number"/>
<col column="Name" label="Name"/>
<col column="Age" label="Age"/>
<col column="Telephone" label="Telephone"/>
<col column="User type" type="selectbox">
<option label="All" value="" type="true"/>
<option label="Administrator" value="0" type="false"/>
<option label="Member of the women's Committee" value="1" type="false"/>
</inputbox>
<col column="intro" label="简介"/>
</display>
```

5.2 Page jump function program code

For the right defense information management system for the post-80s women developed with Wabacus framework, it is required to express the non-data series in the display label as \{non-fromdb\}, and the column name in this place can be defined as the operation function, and the hyperlink will be created, thus
realizing the jump function from the ordering information to the homepage, and conveying the related information to the system parameters, for the compilation and verification of the ID in the homepage and the field ID. The design code program is:

```xml
<value><![CDATA[SELECT * From venueInfo WHERE (#condition#) ORDER BY ID]]></value>
<condition name="home_ID">
  <value><![CDATA[(home ID = '#data#')]]></value>
<condition name="text_type">
  <value><![CDATA[(type = '#data#')]]></value>
<display>
```

5.3 Function partitioning code of user registration information

In the actual application of this system, the activities are not under direct control of the administrator, it is also important that the women right defense organization creates the platform activity space. From the depend attribute, it is possible to define the corresponding input list from the volunteer team and carry out the serial design, so as to obtain the management data parameters of depend spans attribute. The function partitioning code is:

```xml
<reportid="report29"title="To participate in "
<interceptor>="com.wabacus.interceptor.SaveInterceptor"
depend spans="home_ID= @(homeID);
volunOrg_ID= @[ID]"type="listform">
</report>
```

In addition, dynamic management information shall realize the regular upload and update function on the submitting of the module function. While the management information is saved in the designated file, and the type and requirements for the files are defined. Then in the information report, it is possible to finish the filling of the related information, then finish the definition with the “upload file” as the exercise within Wabacus framework, and synchronously finish the file upload function. The series code is designed as:

```xml
<col column="filename"label="Upload file">
<inputbox type="file" popupparams="'(title : Upload management information')" allowedtypes="doc;txt;pdf;docx;xls;xlsx;displaytype="textbox" deletetype="1"
width="800" height="600" savepath="absolute[@{directory}]"
interceptor="com.elite.common.interceptor.
Accessory UploadInterceptor"> </inputbox> </col>
```

6. CONCLUSIONS

With social progress, the women’s status in China has improved. But in the society, when the post-80s women are faced with unfair treatment, they do not know it at all. For this reason, it is particularly necessary to improve the legal protection system. But the legal system the right defense awareness of the post-80s women shall complement with and penetrate into each other so as to form wider and active effect. Thus the right defense means and methods have been explored by focusing on the post-80s women, for which it is required to build the sound information management system, support the interfacing between the right defense organization and the post-80s women, and support the right defense of the post-80s women with the related activities (Tong, 2011). The right defense information management system for the post-80s women designed in this study is the theoretical model developed on the basis of Wabacus framework, and there is no application data to justify the
stability of the system operation. So in Wabacus framework model construction method, two groups of evaluation models are proposed, and the corresponding evaluation means may be learned by taking comprehensive consideration of the use effect, to fully check the functionality and universality of this system. Then it can provide the complete right defense information support for the post-80s women in China, and support the related right defense helping activities. It provides the women with the information platform for wide exchange, supports the information inquiry, resource sharing and booking service, and promotes the interaction and interfacing between the women’s federation and the post-80s women.

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