

Design and Realization of University Financial Accounting System Based on Computer Software

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Abstract: The Internet has gradually penetrated into all walks of life and has a great connection with every aspect of our life. The Internet can connect all walks of life and create a new industry. In the context of the new era, the combination of the Internet and traditional industries has brought unprecedented impact and development, promoted the rapid economic growth, and brought unprecedented changes to the accounting industry. The financial software under the network environment will liberate the accounting personnel from the tedious work. But at the same time, the accounting function of accounting personnel to management, control and decision-making function transformation. This article mainly analyzes the present situation of our country's financial software, and according to the present situation of the financial software to make certain predictions, based on the current existing problems put forward their views and requirements, the purpose is to strengthen the application of financial software, improve the financial and accounting system, the Internet environment to speed up financial software design and implementation of the application process.

Keywords: Computer software, financial accounting system

1 Introduction

With the deepening of the economic system reform and the rapid development of modern production, using modern management methods to economic information processing timely and correctly, provide reliable basis for business decisions, in order to improve the economic efficiency, has become the enterprise management is the inevitable, the traditional manual accounting form has been difficult to adapt to the needs of modern management, in order to speed up the reform of the financial accounting work, Computer and database technology must be applied to financial management, so that accounting work can timely, correct, comprehensive and true, collect information, process information, improve the quality of enterprise management decisions [1].

2 Current situation of financial software application in China

In the Internet and financial software has been quite popular today, as shown in Figure 1. The application status of financial software in China is as follows:

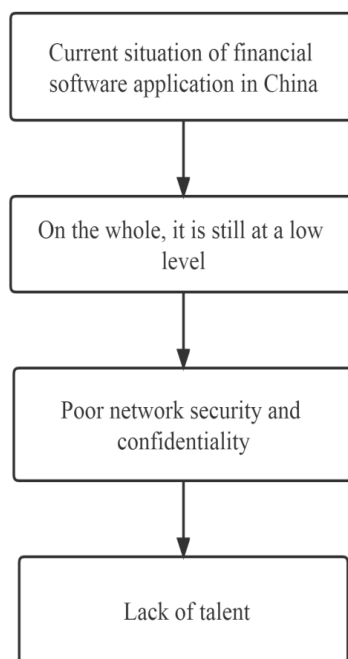


Figure 1: Current Situation of Financial Software Application in China

2.1 On the whole, it is still at a low level

At present, the management information system of financial department and business department of many enterprises in China is not integrated, and the financial department is in the situation of "information island" [2]. Use of the present situation of the accounting software is simply to "accounting" type of financial software instead of manual operation, accounting voucher entry take the way of manual entry, not very good with the business process, business accounting is accounting, there are very few companies also use "managed" and "decision" type financial software, so the financial software beforehand, the control and management functions were not exercised [3].

2.2 Poor network security and confidentiality

In the Internet environment, financial software should be connected to the Internet, which has the characteristics of openness and distribution [4]. If the network security technology is not in place, the data involved in financial software is sensitive commercial data, so the data stolen by hackers will have serious consequences. Nowadays a variety of viruses are flooding, many

enterprises only rely on the SSL protocol of the browser and the firewall technology of the operating system itself to resist the attack of hackers on the network is far from enough, so the financial software itself maintenance network security function is particularly important [5].

2.3 Lack of talent

The use of advanced financial software is not only used to improve accounting efficiency, its more far-reaching significance lies in how to make accounting play the role of prediction, control, decision-making and supervision, to better seek benefits for the company [6]. To truly realize accounting informatization, enterprises should cultivate a group of compound talents who are proficient in both computer technology and financial management knowledge, which is the future accounting leading talents. However, compound talents are scarce at present. On the one hand, accounting personnel are not very skilled in information technology, so the use of financial software remains mostly at a low level. On the other hand, IT talents are scarce, and IT personnel have little knowledge of financial management [7]. They cannot achieve the demand goals well in the development of financial software, and the implementation of accounting information system is not perfect. "Internet + Accounting" requires the accountant to be a versatile person who can master the latest Internet technology and undertake multiple functions at the same time. This type of compound talent enables financial software to expand more functions, and can be used better. At present, China is short of such talents, accounting personnel are often not good at computer technology, the use of financial software is still in a simple simulation of manual operation, there is no training of computer "event-driven" thinking, that is, financial business integration thinking. To cultivate a large number of accounting information system implementation experts, ERP experts can adapt to the needs of the new situation, they are good at enterprise information construction, can skillfully use new technology in financial management business, proficient in Internet technology and accounting work [8]. As shown in Table 1.

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3 Financial system model construction

3.1 Model Classification

As shown in Table 2. The basic object of the CWMBMS model library system is the model. In this model library system, we define a model library class [9]. The basic element type of model library class is model, and the predictive model library is an example of it, including simple moving average model, weighted moving average model, exponential smoothing model and unary linear regression model. In addition to the examples mentioned above, this class also includes model parameter information, model operation body and model dictionary information, as well as the description of model common operations such as model query, add, delete and modify.

Table2: Financial system model construction

Financial system model construction			
Add Model	Sdelete	Model Analysis	the system can add model
Subclasses are generated by inheriting the model class CWML	Find the corresponding model according to certain conditions and delete it	the simple moving average model	to select the required running program after all the information in the model dictionary
After running the program, select all required information in the model dictionary, then enter the basic information of the model, and finally confirm	The records in all fields are displayed in the text box. You can click to delete the records in the database	his class of models assumes that the future state of the test is related only to the state of the bell within a few prediction cycles, and not to the state of the distant state	the unitary linear regression analysis model is presented

The main function of the system can add model, by inheriting model class CWML to produce a subclass, the main method is to select the required running program after all the information in the model dictionary, and then input the basic information of the model, and finally confirm. As a result, a new class is created that inherits all the properties and operations of the model library class CWML [10].

The main function of model modification is to modify the model appropriately due to the change of objective conditions and the sublimation of users' thought and cognition, including the modification of model description information, model parameters and model operation body. Its implementation method is mainly to find the model that needs to be modified after the query, modify it in the corresponding text box and then write it into the model class according to the field [11].

The main function of model deletion is to find corresponding models according to certain conditions and delete them. Its implementation method is to query according to the corresponding conditions, all the fields of the records are displayed in the text box, click confirm delete can directly delete the records in the database [12].

The main function of model query is to query the required records according to the corresponding retrieval conditions. As shown in Figure 2.

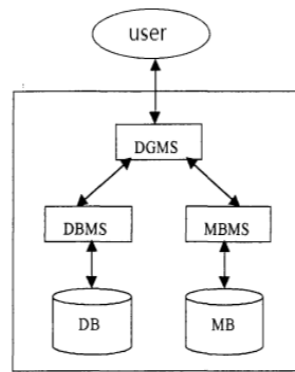


Figure 2: Schematic diagram of model construction

3.2 Model Analysis

The first is the simple moving average model. This class of models assumes that the future state of the test is related only to the state of the bell within a few prediction cycles, and not to the state of the distant state [13]. Therefore, only a few recent data can be used for calculation, and its main model is as follows:

$$F_{1+t} = \frac{V_1 + V_{T-1}}{n} \quad (1)$$

In the formula, represents the actual value of the t cycle, and represents the predicted value of the t+1 cycle.

The second is the weighted moving average model. The influence of the simple moving average model on the predicted value of historical data can be regarded as the same state [14]. In fact, the influence of different historical households at different distances on the predicted value is different. Generally speaking, the closer to the forecast period the historical data will affect the end of the month ah. In order to strengthen the role of recent data and improve the influence of

recent historical data in the prediction period, the simple moving average model is modified into the weighted moving average model, as shown below:

$$F = \frac{\sum_{i=1}^n w_i v_i}{\sum_{i=1}^n w_i} \quad (2)$$

$$F = \alpha V_t + \alpha(1 - \alpha)V_t \quad (3)$$

Finally, the unitary linear regression analysis model is presented. This model is generally used to establish a regression analysis model for predicting future output, where A and B are regression coefficients respectively, and the calculation formula is as follows:

$$B = \frac{\sum_{i=1}^n (X_i - M)(Y_i - M_Y)}{\sum_{i=1}^n (X_i - M)^2} \quad (4)$$

Where, n is the actual number of data points (n = 8). As shown in Figure 3.

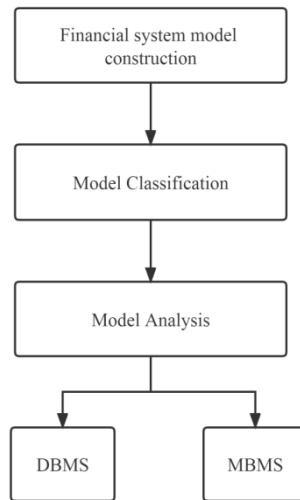


Figure 3: Financial system model construction

4 Design and implementation of functional modules

Basic data is one of the important function of system, refers to is often referred to as other function module reference data, data refers to the system to provide the basis of one of the important function, also is other function modules often reference data is introduced, the structure of the basic data type is used to define based data entry of hierarchical relationships

within the organization, including the list and tree (Jin,2002). The list, when there is no obvious hierarchical relationship between the underlying data items, the relationship between the items is equal., can also be configured as a grouping list, or can group the fields specified in the grouping list to divide different items such as personal data in the department. This can be used when there is a hierarchical relationship between the underlying data items and an inclusion relationship between entles. According to code generation rules, the tree is divided into three categories: Non-subtree, different classes or classes, the longer the subcode, the higher the code increases the subcode, the code length is fixed, symbols with higher zeros after coding attach the subcode.

Its specific design is as follows:

Engineering:

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(1) interface com. Jiuqi. DNA/bap. Masterdata.
The UI
(2) service project: om. Jiuqi. DNA/bap.
Masterdata. Service
(3) interface engineering: com. Jiuqi. DNA/bap.
Masterdata. Intf
(4) storage project: com. Jiuqi. DNA/bap.
Masterdata. Storage
To find the underlying data, use the following
code:
Context context = null; // context
String name = null; // Base data defines name
BaseDataDefineCenter.getBaseDataDefine(cont
ext, name); // Query the specified underlying data
definition
BaseDataDefineCenter.getBaseDataDefineList(c
ontext); // Query all underlying data definitions
To find the underlying data scheme, you need
the following code:
Context context = null; // context
String tableName = null; // The name of the
underlying table
Filter< FBaseDataInfo> filter= null; //
filter
BaseDataCenter.findInfo(context, tableName); //
Find the specified Settings
BaseDataCenter.getInfoList(context, filter); //
Look up the Settings according to the filter

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The above can achieve the basic design of financial software management.

5 Conclusion

With the development of the Internet, the accounting industry has gradually been greatly affected. The continuous development of computer technology and the Internet has greatly helped the accounting industry, but it has also been affected to a certain extent. Therefore, it must follow the pace of The Times and make continuous improvements and changes.

Accounting personnel are often not good at computer technology (Li, 2015). At present, the application of financial software is still simply simulating manual operation, without cultivating the "event-driven" thinking of computer, that is, the thinking of financial business integration. To cultivate a large number of accounting information system implementation experts, ERP experts can adapt to the needs of the new situation, they are good at enterprise information construction, can skillfully use new technology in financial management business, proficient in Internet technology and accounting work.

References

- [1] Chen Hongming. General Computer Financial Accounting System Analysis [J]. Journal of Changsha Hydropower Normal College (Natural Science edition), 1990 (02): 278-282.
- [2] CAI Haisheng. The Design and Implementation of the Government Financial Accounting System Based on SOA Technology [D]. Beijing University of Technology, 2014.
- [3] Ding Yurong, Wang Junfeng, Deng Shiping. Computer University Financial Accounting System [J]. Journal of Zhengzhou Light Industry Institute, 1994 (03): 64-67.
- [4] Huang Wensheng. Design and implementation of the new infrastructure financial management information system [D]. University of Electronic Science and Technology, 2011.
- [5] Jin Xuemei. Experience of applying computer management system to implement hospital financial accounting management [J]. Modern Hospital, 2002 (03): 53-54.
- [6] Li Youlan. Analysis of Accounting Balance Design of Campus One-Card System and Financial Accounting System [J]. Intelligence, 2015 (18): 215-216.
- [7] Li Xiang. Design and Implementation of financial Accounting System for Small Enterprises [D]. University of Electronic Science and Technology, 2012.
- [8] Lemanlin, Lei Hao. The Application of Computer Technology in Financial Accounting [J]. Friend friend inspirational, 2016 (17): 174-175.
- [9] Wu Xiwen, Zhang Daming, Xiong Qingming, Liu Chaozhen. Computer is used for financial management "Product Sales Accounting" system [J]. Special steel, 1986 (01): 61-66.
- [10] Xu Hao. A new model representation method and its Application in Financial accounting system [D]. Dalian Railway College, 2002.
- [11] Yin Wensheng. Research on ERP Financial Accounting Management System Based on Web Platform [D]. Dalian University of Technology, 2005.
- [12] Zhang Li. On the development direction of financial software in the "Internet +" era [J]. Modern Business, 2015(30): 145-146.DOI:10.14097/j.cnki.5392/2015. 30.183.
- [13] Zhang Youbing, Yang Yahui, Xia Pengtao. Build a financial accounting system based on OWC technology [J]. Accounting Monthly, 2011(23): 93-94. DOI:10.19641/j.cnki.42-1290/f. 2011.23. 040.
- [14] Zhang enghu. Discuss the computer Audit [J]. Contemporary Economic Science, 1992 (03): 75-78.